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DEPARTMENT OF THE AIR FORCE
27TH SPECIAL OPERATIONS MISSION SUPPORT GROUP (AFSOC)
CANNON AIR FORCE BASE NEW MEXICO

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NMED
Hazardous Waste Bureau

Colonel Heather L. Buono
Commander, 27 SOMSG
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Cannon AFB NM 88103

Mr. Daniel Comeau
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East Bldg 1
Santa Fe NM 87505-6063

Dear Mr. Comeau,

Attached is the *"Site Investigation at Eight Sites Report; Cannon Air Force Base, New Mexico"*. If you have any questions regarding this submittal, please contact Mr. Ronald Lancaster, Chief, Installation Management Flight at (575) 784-1146.

Sincerely,

Heather L. Buono

HEATHER L. BUONO, Colonel, USAF

Attachments:
1. Site Investigation at Eight Sites Report
2. Delegation of Authority Letter

cc:
Environmental Protection Agency, Region VI, Ms. Wendy Jacques w/o Attachment

DEPARTMENT OF THE AIR FORCE
27TH SPECIAL OPERATIONS WING (AFSOC)
CANNON AIR FORCE BASE NEW MEXICO

Colonel Tony D. Bauernfeind
Commander
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20 SEP 2013

Secretary Ryan Flynn
Cabinet Secretary, New Mexico Environment Department
Office of the Secretary
1190 St Francis Drive Ste N4050
Santa Fe NM 87505

Dear Secretary Flynn

In accordance with 40 Code of Federal Regulations (CFR) 270.11(a) and 40 CFR 122.22(a), this letter informs you that I am the principal executive officer in charge of Cannon Air Force Base (AFB), New Mexico. I will serve as your central point of contact on all major environmental issues affecting Cannon AFB and Melrose Air Force Range, New Mexico. In my absence, the Vice Commander, 27th Special Operations Wing (27 SOW/CV) will serve as the principal executive officer.

Pursuant to my authority under 40 CFR 270.11(b) and 40CFR 122.22(b) to delegate signature authority to a duly authorized representative, I hereby delegate signature authority for routine reports and responses to technical issues under Resource Conservation and Recovery Act's Hazardous Waste Permit Program and environmental programs at Cannon AFB, to the Commander, 27th Special Operations Mission Support Group. I also delegate signature authority for routine and technical correspondence involving human health-related issues to the Commander, 27th Special Operations Medical Group.

This letter supersedes the 19 Sep 2011 delegation letter signed by my predecessor, Brig Gen (then Colonel) Albert M. Elton II. I look forward to continuing our close working relationship as partners and stewards committed to maintaining New Mexico as the *Land of Enchantment*.

Sincerely

TONY D. BAUERNFEIND, Colonel, USAF

SITE INVESTIGATION AT EIGHT SITES

CANNON AIR FORCE BASE
NEW MEXICO

December 2013

Prepared for:

Air Force Special Operations Command

27th Special Operations Wing

Under contract to:

Air Force Civil Engineer Center

URS
12120 Shamrock Plaza, Suite 100
Omaha, Nebraska 68154

Executive Summary 1

Section 1 Introduction 1-1
1.1 Authority 1-1
1.2 Purpose and Scope 1-1
1.3 Report Organization 1-1

Section 2 Facility and Site Descriptions 2-1
2.1 Facility Description 2-1
2.1.1 Setting – Physical Geography 2-1
2.1.2 Demographics and Land Use Near Cannon AFB 2-1
2.1.3 Climatology 2-1
2.1.4 Geology 2-2
2.1.5 Hydrogeology 2-4
2.1.6 Soils 2-5
2.1.7 Background Metals Concentrations in Soil 2-6
2.1.8 Water Quality 2-6
2.2 Site Descriptions and Background 2-7
2.2.1 Former AGE Dispatch Facility Spills Site (SS-C501) 2-7
2.2.1.1 Site Description and Background (SS-C501) 2-7
2.2.1.2 Previous Investigation Results (SS-C501) 2-7
2.2.2 Former Gas Station Site (ST-C502) 2-8
2.2.2.1 Site Description and Background (ST-C502) 2-8
2.2.2.2 Previous Investigation Results (ST-C502) 2-8
2.2.3 Base Support/Operations Generator Former UST Site (ST-C503) 2-9
2.2.3.1 Site Description and Background (ST-C503) 2-9
2.2.3.2 Previous Investigation Results (ST-C503) 2-9
2.2.4 Hospital Abandoned UST Site (ST-C504) 2-10
2.2.4.1 Site Description and Background (ST-C504) 2-10
2.2.4.2 Previous Investigation Results (ST-C504) 2-10
2.2.5 Flightline Generator USTs Site (ST-C505) 2-12
2.2.5.1 Site Description and Background (ST-C505) 2-12
2.2.5.2 Previous Investigation Results (ST-C505) 2-12
2.2.6 Former POL Yard Refueling Area Site (SS-C507) 2-13
2.2.6.1 Site Description and Background (SS-C507) 2-13
2.2.6.2 Previous Investigation Results (SS-C507) 2-14
2.2.7 Surface Disposal Area Site (SD-C508) 2-14
2.2.7.1 Site Description and Background (SD-C508) 2-14
2.2.7.2 Previous Investigation Results (SD-C508) 2-15
2.2.8 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129) 2-15

2.2.8.1 Site Description and Background (TA/AS-C129) (SWMU129) ... 2-15
2.2.8.2 Previous Investigation Results (TA/AS-C129) (SWMU129) ... 2-16

Section 3 Objectives and Approach ... 3-1
3.1 SI Objective ... 3-1
3.2 SI Approach ... 3-1
3.3 Development of Preliminary Site Conceptual Exposure Models ... 3-1
3.4 Evaluation of Background Concentrations ... 3-3
3.5 Human Health Screening-Level Evaluation Methodology ... 3-3
3.6 Ecological Screening-Level Evaluation Methodology ... 3-4

Section 4 Field Sampling ... 4-1
4.1 Sampling Overview ... 4-1
4.1.1 Former AGE Dispatch Facility Spills Site (SS-C501) ... 4-1
4.1.2 Former Gas Station Site (ST-C502) ... 4-1
4.1.3 Base Support/Operations Generator Former UST Site (ST-C503) ... 4-1
4.1.4 Hospital Abandoned UST Site (ST-C504) ... 4-2
4.1.5 Flightline Generator USTs Site (ST-C505) ... 4-2
4.1.6 Former POL Yard Refueling Area Site (SS-C507) ... 4-2
4.1.7 Surface Disposal Area Site (SD-C508) ... 4-3
4.1.8 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129) ... 4-3
4.2 Field Activities ... 4-3
4.2.1 Utility Locates ... 4-3
4.2.2 Ground Penetrating Radar at ST-C504 ... 4-3
4.2.3 Surveying of Sample Locations ... 4-4
4.2.4 Surface Soil Sampling ... 4-4
4.2.5 Subsurface Soil Sampling ... 4-5
4.2.6 Field Screening and Headspace Analysis ... 4-5
4.2.7 Photographic Documentation ... 4-6
4.2.8 Sample Handling, Documentation, and Analysis ... 4-6
4.2.8.1 Sample Handling ... 4-6
4.2.8.2 Field Documentation ... 4-6
4.2.8.3 Sample Chain-of-Custody ... 4-6
4.2.8.4 Laboratory Information ... 4-7
4.2.9 Investigation-Derived Waste ... 4-7

Section 5 Investigation Results ... 5-1
5.1 Summary of Boring Logs ... 5-1
5.1.1 Former AGE Dispatch Facility Spills Site (SS-C501) ... 5-1

5.1.2 Former Gas Station Site (ST-C502) 5-1
5.1.3 Base Support/Operations Generator Former UST Site (ST-C503) 5-1
5.1.4 Hospital Abandoned UST Site (ST-C504) 5-1
5.1.5 Flightline Generator USTs Site (ST-C505) 5-2
5.1.6 Former POL Yard Refueling Area Site (SS-C507) 5-2
5.1.7 Surface Disposal Area Site (SD-C508) 5-2
5.1.8 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129) 5-3
5.2 Summary of Analytical Results 5-3
5.3 Data Review and Validation 5-3
5.4 Human Health Screening-Level Evaluation 5-3
5.4.1 Former AGE Dispatch Facility Spills Site (SS-C501) 5-3
5.4.2 Former Gas Station Site (ST-C502) 5-4
5.4.3 Base Support/Operations Generator Former UST Site (ST-C503) 5-4
5.4.4 Hospital Abandoned UST Site (ST-C504) 5-4
5.4.5 Flightline Generator USTs Site (ST-C505) 5-7
5.4.6 Former POL Yard Refueling Area Site (SS-C507) 5-7
5.4.7 Surface Disposal Area Site (SD-C508) 5-9
5.4.8 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129) 5-10
5.5 Ecological Screening-Level Evaluation 5-11
5.5.1 Scoping Assessment 5-11
5.5.1.1 Former AGE Dispatch Facility Spills Site (SS-C501) 5-11
5.5.1.2 Former Gas Station Site (ST-C502) 5-12
5.5.1.3 Base Support/Operations Generator Former UST Site (ST-C503) 5-12
5.5.1.4 Hospital Abandoned UST Site (ST-C504) 5-12
5.5.1.5 Flightline Generator USTs Sites (ST-C505) 5-12
5.5.1.6 The Former POL Yard Refueling Area Site (SS-C507) 5-13
5.5.1.7 Surface Disposal Site (SD-C508) 5-13
5.5.1.8 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129) 5-14
5.5.2 Special-Status Species and/or Environments 5-14
5.5.2.1 Federal- and State-Listed Species 5-15
5.5.3 Technical Decision Point 5-16
5.5.4 Screening- Level Ecological Risk Assessment 5-17
5.5.4.1 Data Usability 5-17
5.5.4.2 Former POL Yard Refueling Area Site (SS-C507) 5-17
5.5.4.3 Surface Disposal Area Site (SD-C508) 5-18

5.5.4.4 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129) 5-18
5.5.5 Refinement of Preliminary COPECs 5-18
5.5.5.1 COPEC Refinement for SS-C507 5-19
5.5.5.2 COPEC Refinement for SD-C508 5-19
5.5.6 Conclusions of the Screening-Level Assessment 5-20
5.6 Preliminary Site Conceptual Exposure Model 5-22

Section 6 Summary, Conclusion, and Recommendations 6-1
6.1 Former AGE Dispatch Facility Spills Site (SS-C501) 6-1
6.1.1 Summary 6-1
6.1.2 Conclusions and Recommendations 6-1
6.2 Former Gas Station Site (ST-C502) 6-1
6.2.1 Summary 6-1
6.2.2 Conclusions and Recommendations 6-2
6.3 Base Support/Operations Generator Former UST Site (ST-C503) 6-2
6.3.1 Summary 6-2
6.3.2 Conclusions and Recommendations 6-2
6.4 Hospital Abandoned UST Site (ST-C504) 6-2
6.4.1 Summary 6-2
6.4.2 Conclusions and Recommendations 6-3
6.5 Flightline Generator USTs Site (ST-C505) 6-3
6.5.1 Summary 6-3
6.5.2 Conclusions and Recommendations 6-3
6.6 Former POL Yard Refueling Area Site (SS-C507) 6-4
6.6.1 Summary 6-4
6.6.2 Conclusions and Recommendations 6-5
6.7 Surface Disposal Area Site (SD-C508) 6-5
6.7.1 Summary 6-5
6.7.2 Conclusions and Recommendations 6-6
6.8 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129) 6-6
6.8.1 Summary 6-6
6.8.2 Conclusions and Recommendations 6-7

Section 7 References 7-1

List of Appendices (All appendices are included electronically only on enclosed CD.)

Appendix A Field Work Permits

Appendix B Field Documentation

Appendix C Fieldwork Photographic Log

Appendix D Data Review and Validation

Appendix E Investigation-Derived Waste Documentation

Appendix F Scoping Site Assessment and Ecological Exclusion Criteria Checklists, Table, and Figures

Appendix G Site Background Information

List of Tables

Table 2-1 Summary of Background Elemental Concentrations in Soil at Cannon AFB, New Mexico.

Table 2-2a Summary of Previous Samples for Chemical Analysis, SS-C501

Table 2-2b Summary of Previous Analytical Data and Screening Results, SS-C501

Table 2-3a Summary of Previous Samples for Chemical Analysis, ST-C502

Table 2-3b Summary of Previous Analytical Data and Screening Results, ST-C502

Table 2-4a Summary of Previous Samples for Chemical Analysis, ST-C503

Table 2-4b Summary of Previous Analytical Data and Screening Results, ST-C503

Table 2-5a Summary of Previous Samples for Chemical Analysis, ST-C504

Table 2-5b Summary of Previous Analytical Data and Screening Results, ST-C504

Table 2-6a Summary of Previous Samples for Chemical Analysis, ST-C505

Table 2-6b Summary of Previous Analytical Data and Screening Results, ST-C505

Table 2-7a Summary of Previous Samples for Chemical Analysis, SS-C507

Table 2-7b Summary of Previous Analytical Data and Screening Results, SS-C507

Table 2-8a Summary of Previous Samples for Chemical Analysis, SD-C508

Table 2-8b Summary of Previous Analytical Data and Screening Results, SD-C508

Table 2-9a Summary of Previous Samples for Chemical Analysis, TA/AS-C129 (SWMU129)

Table 2-9b Summary of Previous Analytical Data and Screening Results, TA/AS-C129 (SWMU129)

Table 4-1 Summary of Soil Samples for Chemical Analysis, SS-C501

Table 4-2 Summary of Soil Samples for Chemical Analysis, ST-C502
Table 4-3 Summary of Soil Samples for Chemical Analysis, ST-C503
Table 4-4 Summary of Soil Samples for Chemical Analysis, ST-C504
Table 4-5 Summary of Soil Samples for Chemical Analysis, ST-C505
Table 4-6 Summary of Soil Samples for Chemical Analysis, SS-C507
Table 4-7 Summary of Soil Samples for Chemical Analysis, SD-C508
Table 4-8 Summary of Soil Samples for Chemical Analysis, TA/AS-C129 (SWMU129)
Table 5-1 Summary of Analytical Data Screening Results, SS-C501
Table 5-2 Summary of Analytical Data Screening Results, ST-C502
Table 5-3 Summary of Analytical Data Screening Results, ST-C503
Table 5-4 Summary of Analytical Data Screening Results, ST-C504
Table 5-5 Summary of Analytical Data Screening Results, ST-C505
Table 5-6 Summary of Analytical Data Screening Results, SS-C507
Table 5-7a Summary of Analytical Data Screening Results, SD-C508
Table 5-7b Summary of Analytical Data Screening Results (Dioxins/Furans) SD-C508
Table 5-8 Summary of Analytical Data Screening Results, TA/AS-C129 (SWMU129)
Table 5-9 Summary of Ecological Exclusion Criteria Checklist
Table 5-10 Summary of Analytical Results and Ecological Screening Soil 0-10 Feet (SS-C507)
Table 5-11 Summary of Analytical Results and Ecological Screening Soil 0-10 Feet (SD-C508)
Table 5-12 Summary of Analytical Results and Ecological Screening Soil 0-10 Feet (TA/AS-C129) (SWMU129)
Table 5-13 Summary of Analytical Results and Ecological COPEC Refinement Soil 0-10 Feet (SS-C507)
Table 5-14 Summary of Analytical Results and Ecological COPEC Refinement Soil 0-10 Feet (SD-C508)

List of Figures

Figure 1-1 Installation Location Map
Figure 1-2 Site Location Map
Figure 2-1 Generalized Geologic Strata at Cannon Air Force Base
Figure 2-2 Elevation and Configuration of the Water Table in the Region of Cannon Air Force Base
Figure 2-3 Water Well Locations on and near Cannon Air Force Base
Figure 2-4 Distribution of Soils by Type at Cannon Air Force Base
Figure 2-5 Previous Soil Sampling Locations (SS-C501)
Figure 2-6 Previous Soil Sampling Locations (ST-C502)
Figure 2-7 Previous Soil Sampling Locations (ST-C503)
Figure 2-8 Previous Soil Sampling Locations (ST-C504)
Figure 2-9 Previous Soil Sampling Locations (ST-C505)
Figure 2-10 Previous Soil Sampling Locations (SS-C507)
Figure 2-11 Previous Soil Sampling Locations (SD-C508)
Figure 2-12 Previous Soil Sampling Locations (TA/AS-C129) (SWMU129)
Figure 3-1 Decision Diagram for Site Investigation at Eight Sites
Figure 4-1 Soil Sampling Locations (SS-C501)
Figure 4-2 Soil Sampling Locations (ST-C502)
Figure 4-3 Soil Sampling Locations (ST-C503)
Figure 4-4 Soil Sampling Locations (ST-C504)
Figure 4-5 Soil Sampling Locations (ST-C505)
Figure 4-6 Soil Sampling Locations (SS-C507)
Figure 4-7 Soil Sampling Locations (SD-C508)
Figure 4-8 Soil Sampling Locations (TA/AS-C129) (SWMU129)
Figure 5-1 Sampling Results Exceeding SI PALs (SS-C501)
Figure 5-2 Sampling Results Exceeding SI PALs (ST-C502)
Figure 5-3 Sampling Results Exceeding SI PALs (ST-C503)
Figure 5-4 Sampling Results Exceeding SI PALs (ST-C504)
Figure 5-5 Vertical Extent of Results Exceeding SI PALs Along Geologic Cross-Section A-A'

Figure 5-6 Vertical Extent of Results Exceeding SI PALs Along Geologic Cross-Section B-B'
Figure 5-7 Sampling Results Exceeding SI PALs (ST-C505)
Figure 5-8a Sampling Results Exceeding SI PALs (SS-C507)
Figure 5-8b Sampling Results Exceeding SI PALs (SS-C507)
Figure 5-9 Sampling Results Exceeding SI PALs (SD-C508)
Figure 5-10 Sampling Results Exceeding SI PALs (TA/AS-C129) (SWMU129)
Figure 5-11 Preliminary Site Conceptual Exposure Model (SS-C501)
Figure 5-12 Preliminary Site Conceptual Exposure Model (ST-C502)
Figure 5-13 Preliminary Site Conceptual Exposure Model (ST-C503)
Figure 5-14 Preliminary Site Conceptual Exposure Model (ST-C504)
Figure 5-15 Preliminary Site Conceptual Exposure Model (ST-C505)
Figure 5-16 Preliminary Site Conceptual Exposure Model (SS-C507)
Figure 5-17 Preliminary Site Conceptual Exposure Model (SD-C508)
Figure 5-18 Preliminary Site Conceptual Exposure Model (TA/AS-C129) (SWMU129)

Acronyms and Abbreviations

°C	degrees Celsius
°F	degrees Fahrenheit
95%	95 percentile
AFB	Air Force Base
AFCEC	Air Force Civil Engineering Center
AGE	Aerospace Ground Equipment
AST	aboveground storage tank
B.P.	before the present
bgs	below ground surface
BRA	Baseline Risk Assessment
BTEX	benzene, toluene, ethylbenzene, and total xylenes
CAC	corrective action complete
CEC	cation exchange capacities
cm/sec	centimeters per second
CoC	chain of custody
COPC	chemical of potential concern
COPEC	chemical of potential ecological concern
CSEM	conceptual site exposure model
DRO	diesel range organics
EMAX	EMAX Laboratories
EOD	Explosives Ordnance Disposal
ESL	ecological screening level
ESSL	Ecological Soil Screening Level
gpm	gallon per minute
GPR	ground-penetrating radar
GPS	global positioning system
GRO	gasoline range organics
HMW	high molecular weight
IDW	investigation-derived waste

INRMP	Integrated Natural Resources Management Plan
J	estimated
JP	jet propellant
Keers	Keers Technical Services
kg	kilogram
km/hr	kilometers per hour
L	liter
Lee Wan	Lee Wan Associates, Inc.
LANL	Los Alamos National Laboratory
LMW	low molecular weight
m^3/m	cubic meters per meter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MHz	megahertz
mm	millimeter
MOGAS	motor gasoline
mph	miles per hour
MS/MSD	matrix spike/matrix spike duplicate
msl	mean sea level
ng/kg	nanograms per kilogram
NMACP	New Mexico Avian Conservation Partners
NMED	New Mexico Environment Department
ORO	oil range organics
OWS	oil/water separator
PAH	polynuclear aromatic hydrocarbon
PAL	Project Action Limits
Parallax	Parallax, Inc.
PAWP	Project Activities Work Plan
PCB	polychlorinated biphenyl
PID	photoionization detector

POL	petroleum, oil and lubricants
QC	quality control
RBC	risk-based concentration
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SC	clayey sand
SCEM	site conceptual exposure model
SCFS	Sample Collection Field Sheet
SI	Site Investigation
SLERA	Screening-Level Ecological Risk Assessment
SLHQ	screening-level hazard quotient
SM	silty sand
SSL	soil screening level
SVOC	semivolatile organic compound
SWMU	Solid Waste Management Unit
TBD	to be determined
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
TEF	toxicity equivalency factor
TEQ	TCDD-equivalent concentration
TPH	total petroleum hydrocarbon
TRPH	total recoverable petroleum hydrocarbons
TTCP	Technical Cooperation Program
UJ	estimated nondetect
UCL	upper confidence limit
UFP-QAPP	Uniform Federal Policy–Quality Assurance Project Plan
URS	URS Group, Inc.
U.S.	United States
USCS	Unified Soil Classification System
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey

UST	underground storage tank
UTL	Upper Tolerance Limit
VOC	volatile organic compound
W-C	Woodward-Clyde

This Site Investigation (SI) Report addresses eight sites at Cannon Air Force Base (AFB) near Clovis, New Mexico, that required additional investigation to determine the presence or absence chemicals of potential concern (COPC) in soil that may pose an unacceptable risk to human health or the environment and to gauge the need for further evaluation, such as collection of additional data or completion of a Baseline Risk Assessment (BRA). This SI Report presents analytical results, compares the results to current human health and ecological screening criteria (i.e., Project Action Limits [PALs]), and provides recommendations for the eight sites. The eight sites are listed below:

- The Former Aerospace Ground Equipment (AGE) Dispatch Facility Spills Site (SS-C501)
- The Former Gas Station Site (ST-C502)
- The Base Support/Operations Generator Former Underground Storage Tank (UST) Site (ST-C503)
- The Hospital Abandoned UST Site (ST-C504)
- The Flightline Generator USTs Site (ST-C505)
- The Former Petroleum, Oil and Lubricants (POL) Yard Refueling Area Site (SS-C507)
- The Surface Disposal Area Site (SD-C508)
- The Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129) (Solid Waste Management Unit [SWMU] 129)

Site history, background information, and previous analytical results, where available, were reviewed to determine appropriate soil sampling locations and COPCs. The scope of the SI fieldwork included the collection of surface and subsurface soil samples.

Overall, 649 soil samples were collected from 140 locations throughout the eight sites. Soil samples were submitted to the laboratory for analysis of a site-specific list of parameters that included one or more of the following: total petroleum hydrocarbon (TPH)-diesel range organics (DRO); TPH-gasoline range organics (GRO); TPH-oil range organics (ORO); volatile organic compounds (VOCs) or benzene, toluene, ethylbenzene, and xylenes (BTEX); semivolatile organic compounds (SVOCs) or site-related SVOCs; pesticides; Resource Conservation and Recovery Act (RCRA) metals or lead only; polychlorinated biphenyls (PCBs); explosives; and dioxins/furans. One-hundred percent of the analytical data from the soil samples collected at the eight sites were determined to be acceptable for their intended use, including estimated (J) / estimated nondetect (UJ) data.

Results of the human health and ecological evaluations indicated the following:

- **SS-C501:** Arsenic was the only analyte to exceed the residential human health PALs and the established surface and subsurface soil background concentration at the site, but it did not exceed the New Mexico Environment Department (NMED) industrial/occupational screening

level. Arsenic exceeded the residential human health PAL and the established background concentration at all sample locations collected directly under the asphalt and up to a depth of 5 feet below ground surface (bgs). Additionally, the site qualifies for ecological exclusion and no ecological assessment is warranted.

- **ST-C502:** No analytes were detected at concentrations exceeding the residential human health PALs at this site. Additionally, the site qualifies for ecological exclusion and no ecological assessment is warranted.
- **ST-C503:** No analytes were detected at concentrations exceeding the residential human health PALs at this site. Additionally, the site qualifies for ecological exclusion and no ecological assessment is warranted.
- **ST-C504:** Site-related SVOCs exceeded their residential human health PALs at the site at one sample location (from 0 to 15 feet bgs), but did not exceed the NMED industrial/occupational screening levels. TPH-DRO exceeded the residential human health PAL (NMED's TPH Screening Guideline for Residential Direct Exposure) at locations adjacent to the abandoned UST, to a depth of 190 feet bgs. TPH-DRO also exceeded the NMED industrial/occupational screening level. No other analytes exceeded their respective residential human health PALs. Additionally, the site qualifies for ecological exclusion and no ecological assessment is warranted.
- **ST-C505:** Site-related SVOCs exceeded their residential human health PALs at the site at one sample location (from 20 to 25 feet bgs), but did not exceed the NMED industrial/occupational screening levels. No other analytes exceeded their respective residential human health PALs. Additionally, the site qualifies for ecological exclusion and no ecological assessment is warranted.
- **SS-C507:** Site-related SVOCs exceeded their residential human health PALs at the site in samples collected only from unpaved areas from 0 to 5 feet bgs, but did not exceed the NMED industrial/occupational screening levels. PCB-1260 exceeded the residential human health PALs at the site at one sample location (from 0 to 0.5 foot bgs), but did not exceed the NMED industrial/occupational screening levels. No other analytes exceeded their respective residential human health PALs. Potential ecological risks for SS-C507 are primarily from exposure to lead.
- **SD-C508:** Site-related SVOCs exceeded their residential human health PALs at the site at one sample location (from 0 to 0.5 foot bgs), but did not exceed the NMED industrial/occupational screening levels. Dioxins and furans were detected at the site, but did not exceed the TCDD-equivalent concentration, indicating dioxins and furans do not pose a human health concern at the site. Arsenic exceeded the human health PAL and the established background concentration (from 0 to 9 feet bgs), but did not exceed the NMED industrial/occupational screening level. No other analytes exceeded their respective residential human health PALs. Potential ecological risks for SD-C508 are primarily from exposure to dioxins and furans.

- **TA/AS-C129 (SWMU129):** Site-related SVOCs (only benzo(a)pyrene) exceeded their residential human health PALs at the site at one sample location (from 0 to 5 feet bgs), but did not exceed the NMED industrial/occupational screening levels. TPH-ORO exceeded the residential human health PAL (NMED's TPH Screening Guideline for Residential Direct Exposure) at one location (from 0 to 5 feet bgs), but did not exceed the NMED industrial/occupational screening level. Arsenic exceeded the human health PAL and the established background concentration in samples collected from 0 to 5 feet bgs, but did not exceed the NMED industrial/occupational screening level. No other analytes exceeded their respective residential human health PALs. Additionally, concentrations of chemicals at this site appear to be sufficiently low to conclude that potential ecological risk are inconsequential and no further ecological evaluation is warranted for TA/AS-C129 (SWMU129).

Based on these results the following sites require no further evaluation and are recommended for Corrective action Complete without Controls: SS-C501, ST-C502, and ST-C503. Sites that require further evaluation, including additional sample collection to define the extent of contamination, include: ST-C505, SS-C507, SD-C508, and TA/AS-C129 (SWMU129). Sites that have the extent of contamination defined, but require further evaluation including a BRA include: ST-C504.

1.1 AUTHORITY

URS Group, Inc. (URS) has been contracted by the Air Force Civil Engineering Center (AFCEC) under Contract Number FA8903-08-D-8783, Task Order 0169, to complete a Site Investigation (SI) at eight sites at Cannon Air Force Base (AFB) (**Figure 1-1**). This SI is being addressed under the Environmental Restoration Program for Cannon AFB.

1.2 PURPOSE AND SCOPE

This SI Report describes the fieldwork completed at the following eight sites at Cannon AFB: SS-C501, ST-C502, ST-C503, ST-C504, ST-C505, SS-C507, SD-C508, and TA/AS-C129 (SWMU129) (Solid Waste Management Unit [SWMU] 129). The site location map (**Figure 1-2**) shows the location of the eight sites at Cannon AFB. The scope of this SI at the eight sites is to obtain information necessary to determine the presence or absence of contamination that may pose an unacceptable risk to human health or the environment and to evaluate the need for further evaluation, such as collection of additional data or completion of a Baseline Risk Assessment (BRA).

1.3 REPORT ORGANIZATION

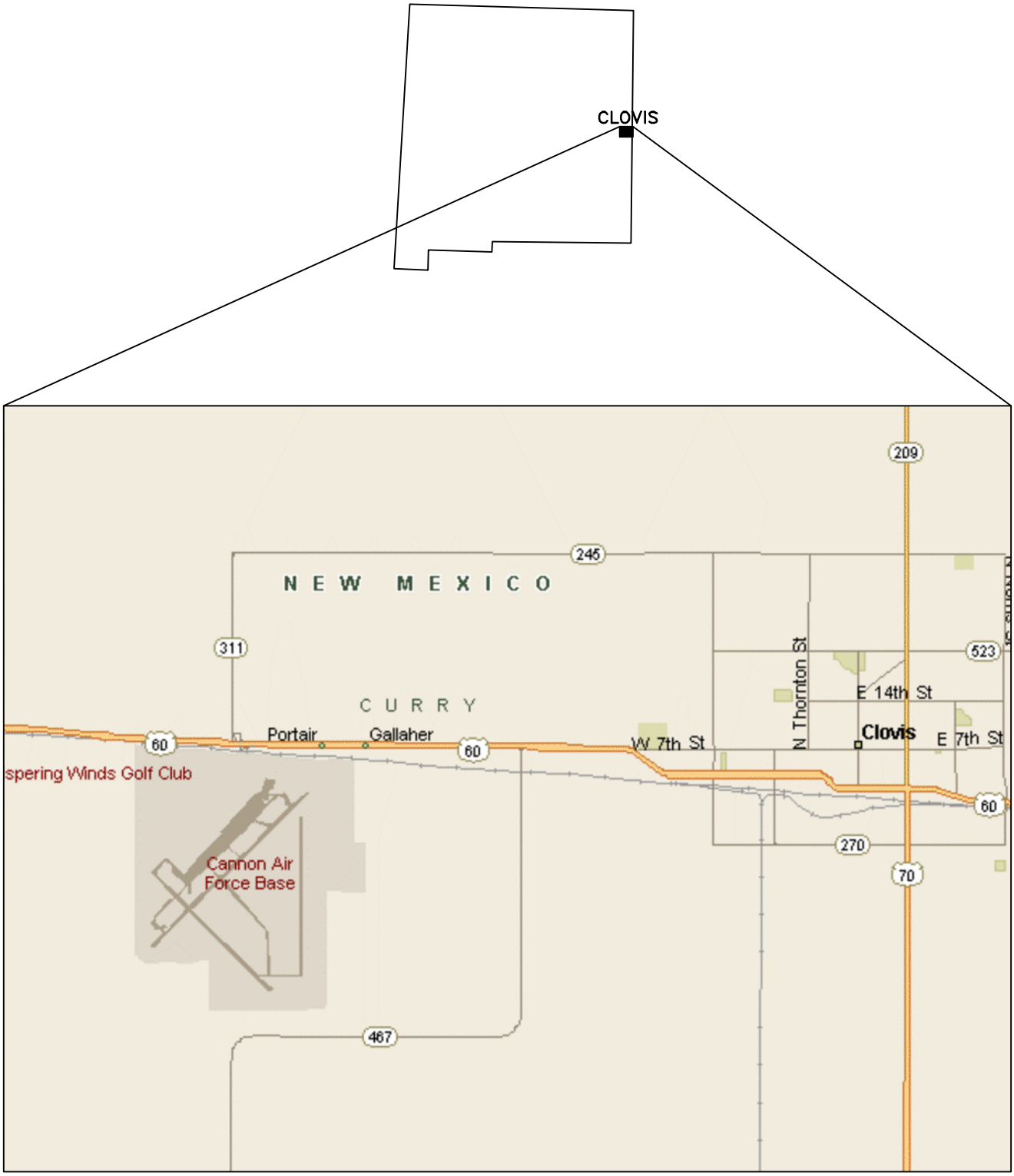
This report provides the facility and site descriptions, presents the project objectives and approach, describes the field sampling activities completed, presents the site investigation results, and provides summaries and recommendations for the eight sites. The sections of this report are organized as follows:

- **Section 1** provides an introduction, purpose and scope, and report organization.
- **Section 2** provides the overall facility description, site descriptions and background information, and results from previous investigations.
- **Section 3** provides the project objectives and approach.
- **Section 4** describes field sampling procedures used to complete the field activities.
- **Section 5** provides investigation results and screening-level risk evaluations.
- **Section 6** consists of a summary and recommendations for the eight sites.
- **Section 7** provides a list of the references used to produce this report.

The appendices contain the following information:

- **Appendix A** Field Work Permits
- **Appendix B** contains field documentation (i.e., boring logs and sample collection field sheets [SCFSs]).

- **Appendix C** contains the fieldwork photographic log.
- **Appendix D** contains the analytical data, laboratory results, field duplicate results, data reviews, qualified data table, and chain of custody (CoC).
- **Appendix E** contains investigation-derived waste (IDW) documentation (i.e, waste profile sheet, PCB form, laboratory results, and diposal forms).
- **Appendix F** contains the Scoping Site Assessment and Ecological Exclusion Criteria Checklists, tables, and related figures.
- **Appendix G** contains the Historical Site Background Information (Previous Site Documentation, Historical Aerial Photos, As-built Drawings, and Photographic Logs).



INSTALLATION LOCATION MAP
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 1-1
CHK'D. BY: CSA	REVISION: 0		

December 18, 2013 9:06:36 a.m.
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LEGEND

ST-C505 ● SITE LOCATION AND IDENTIFIER

SITE ID	DESIGNATED AREA
SS-C501	FORMER AEROSPACE GROUND EQUIPMENT (AGE) DISPATCH FACILITY SPILLS SITE
ST-C502	FORMER GAS STATION SITE
ST-C503	BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE
ST-C504	HOSPITAL ABANDONED UST SITE
ST-C505	FLIGHTLINE GENERATOR UST SITE
SS-C507	FORMER PETROLEUM, OIL AND LUBRICANTS (POL) YARD REFUELING AREA SITE
SD-C508	SURFACE DISPOSAL AREA SITE
TA/AS-C129 (SWMU 129)	WASTE OIL STORAGE FACILITY 244 AND LEACH FIELD SITE

N

2000 1000 0 2000

SCALE IN FEET

SITE LOCATION MAP
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 1-2
CHK'D. BY: CSA	REVISION: 0		

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2.1 FACILITY DESCRIPTION

2.1.1 Setting – Physical Geography

Cannon AFB is situated in the Southern High Plains Physiographic Province in the Llano Estacado subprovince. The Llano Estacado is a nearly flat plain sloping gently (10 to 15 feet per mile) to the east and southeast. Elevations in the eastern New Mexico portion of the Llano Estacado exceed 4,000 feet above mean sea level (msl). In the vicinity of Cannon AFB, elevations range from 4,250 feet to 4,350 feet above msl.

The most prominent geomorphic features in the vicinity of Cannon AFB are blowouts and broad, widely spaced valleys. Less common landforms are relict sand dunes along the northern side of the Portales Valley to the south of the base. Relict dunes are not found on or near Cannon AFB.

Blowouts are broad shallow depressions, which form as the result of soil eroded by wind. Blowouts commonly collect surface runoff from small to moderate sized drainage areas. During periods of rainfall, runoff collects in blowouts to form ephemeral playa lakes. Playas have no external surface drainage. Water is lost by infiltration to the soil and evaporation; without recharge, playa lakes persist for only a few days or weeks. Three playas are within the base, and several more are found to the north and east of the base.

Stream valleys tend to be fairly broad and widely spaced. Streams are ephemeral and drainages are poorly developed. No streams exist on or near Cannon AFB. Running Water Draw and Frio Draw (about 10 and 20 miles, respectively, north of Cannon AFB) are the nearest streams. These are second-order streams. Both streams are very straight, flow southeast, and have rectilinear drainage patterns with short laterals (W-C 1991).

2.1.2 Demographics and Land Use Near Cannon AFB

Cannon AFB is just west of the City of Clovis, New Mexico, and just south of United States (U.S.) Highway 60/84 in a farming and ranching area. The majority of the land surrounding Cannon AFB is productive, irrigated farmland or grassland. The major crops are wheat, sorghum, sugar beets, corn, cotton, alfalfa, barley, and peanuts. The land is also used for cattle grazing, both beef and dairy, and Clovis is considered the "Cattle Capital of the Southwest." There were 33,063 people living in Clovis in 2004, according to U.S. Census data, while the Cannon AFB population was estimated to be 2,600 in 2008.

2.1.3 Climatology

The climate of east-central New Mexico is classified as tropical semi-arid, with summer temperature and precipitation maxima. Average monthly temperatures range from a January low of 12 degrees Celsius (°C) (39 degrees Fahrenheit [°F]) to a July high of 26°C (78°F). Extreme daily temperatures range from –24°C (–11°F) to 41°C (106°F) (Lee Wan 1990). Average monthly precipitation ranges from 1 centimeter (0.4 inches) in winter to 6.9 centimeters

(2.7 inches) in July. The maximum-recorded 24-hour rainfall is 12.2 centimeters (4.8 inches), which occurred in the month of August. Rainfall occurs on eight or more days per month during the summer precipitation maximum. Mean annual precipitation is approximately 41 centimeters (16 inches). The mean annual evapotranspiration rate is 181.4 centimeters per year (71.4 inches per year) (Lee Wan 1990). Prevailing winds are from the west at an average of 5 kilometers per hour (km/hr) (3.1 miles per hour [mph]) during fall, winter, and spring. During the summer, winds are from the south at an average of 3.7 km/hr (2.3 mph).

The atmosphere around the area of Cannon AFB is generally well mixed. The seasonal and annual average mixing heights can vary from 400 meters in the morning to 4,000 meters in the afternoon. The afternoon mixing heights are typically greater during the spring and fall seasons. The morning mixing heights are usually low, due to nighttime heat loss from the ground, producing surface-based temperature inversions. After sunrise, these inversions break up, and solar heating of the earth's surface causes vertical mixing in the atmosphere.

Dust is frequently entrained into the atmosphere in this region of the country because of gusty winds and the semiarid climate. The Texas Panhandle-eastern New Mexico area is considered the worst area in the U.S. for windblown dust. Occasionally, this windblown dust is of sufficient quantity to restrict visibility. Most of the seasonal dust storms occur in March and April, when the wind speeds are typically high (i.e., average 5 km/hr) (W-C 1991).

2.1.4 Geology

A generalized geologic section at Cannon AFB is shown in **Figure 2-1**. The near surface stratigraphic units of interest at Cannon AFB are the Late Miocene-Late Pliocene-age Ogallala Formation and the Early Triassic Dockum Group.

The Dockum Group consists of three formations. Stratigraphically, the lowest unit is the Santa Rosa Sandstone. Overlying the Santa Rosa Sandstone are the Chinle and Redonda Formations. The Chinle and Redonda Formations are composed mainly of red shales with lesser interbedded sands, and are known locally as "redbeds." The top of the Dockum Group is marked by an erosional nonconformity having relief of up to several hundred feet (Lee Wan 1990).

Overlying the Dockum Group redbeds is the Ogallala Formation. The Ogallala Formation extends from eastern New Mexico and Colorado into Texas, Oklahoma, Kansas, Nebraska, and South Dakota. According to Lee Wan and Associates, Inc. (Lee Wan) (1990), drillers' logs from Cannon AFB indicate that the Ogallala Formation varies from 360 feet to 415 feet in thickness. The incised upper surface of Triassic redbeds strongly influences Ogallala thickness. Paleo valleys in the post Triassic nonconformity are deep and trend dominantly east to west. Ogallala thickness may thus vary significantly over short north to south distances.

The Ogallala Formation is erosionally truncated to the south along the abandoned Portales Valley, to the west along the Pecos River Valley, and to the north in a series of ephemeral stream valleys. The Ogallala Formation extends more than 125 miles to the east before terminating as

an escarpment in Briscoe County, Texas. Springs and seeps are common along the erosional margins of the Ogallala.

The Ogallala Formation dips gently and monoclinally to the southeast in the vicinity of Cannon AFB. As reported in Lee Wan (1990), data suggest that some quaternary warping may have occurred; however, most of these structures are well to the northwest and southwest of Cannon AFB. No faults or buried structural lineaments are known to exist in the vicinity of Cannon AFB.

The Ogallala Formation is composed of unconsolidated poorly sorted gravel, sand, silts, and clays. The base of the Ogallala is generally marked by a gravel, cobble, and boulder deposit. This basal member contains sediments derived from igneous and sedimentary rocks transported from the mountains to the west. The Ogallala Formation was laid down as stream and overbank deposits formed within coalescing alluvial fans. These fans form a broad pediment along the eastern flank of the Rocky Mountains. As is typical of alluvial deposits, Ogallala internal stratigraphy varies vertically and horizontally over short distances.

Except where strongly cemented by calcium carbonate (caliche), the sediments of the Ogallala are loose and friable. Authigenic and allogenic clays are found as a trace to abundant matrix mineral (Lee Wan 1990). As reported by Lee Wan (1990), five zones have been distinguished within the Ogallala of east central New Mexico on the basis of clay minerals. Smectites (montmorillonites) and attapulgite (with sepeotite) are the dominant clays throughout the Ogallala. Illite is a lesser, but persistent clay, as is kaolinite. Smectite is a swelling clay, causing deep cracks to form in dry surface soils. Smectite in particular and, to a lesser extent, attapulgite and illite, are clays with moderate to high cation exchange capacities (CEC). The formation as a whole should therefore have a relatively high CEC, which should inhibit the migration of charged contaminants, and especially ionic forms of metals.

Caliche is a major feature of the Ogallala Formation, occurring as nearly continuous to discontinuous layers throughout. Caliche is hard, white to pale tan on fresh surfaces, weathering to gray, and has a chalky appearance. Caliche forms as calcium carbonate, leached from overlying sediments, and precipitates in the pore space of the host sediments. Precipitation is caused by the evaporation of downward percolating water. The caliche may thus mark the position of ancient vadose zones. As reported in Lee Wan (1990) radiocarbon dates for the upper “climax” caliche range from approximately 27,000 years before the present (B.P.) to approximately 42,000 years B.P.

Caliche is relatively soluble in acidic water (i.e., water with a pH less than 7) or in waters containing dissolved carbon dioxide. The top surface of the uppermost or “climax” caliche in a fresh outcrop typically shows solution etching.

The Ogallala has numerous continuous to discontinuous caliche layers throughout its thickness. The climax caliche is pisolitic (i.e., consisting of spherical concentrically laminated aggregates 1 to 10 millimeters [mm] in diameter) (Lee Wan 1990). The pisolites are thought to have formed

as the caliche was repeatedly chemically weathered and brecciated during Pleistocene pluvials (wet climate episodes) and later re-cemented during drier intervals. This upper caliche crops out around playas and the bounding escarpments of the Ogallala, and is locally termed "caprock." The climax caliche is typically 3 to 5 feet thick. Caliches that occur lower in the Ogallala are platy and harder. Caliche may be thin or absent below playas (W-C 1991).

2.1.5 Hydrogeology

The lower portion of the Ogallala Formation is the primary regional aquifer for both potable and irrigation water. No deeper aquifers are utilized in the vicinity of Cannon AFB. The Ogallala aquifer is part of the High Plains Aquifer that extends continuously from Wyoming and South Dakota into New Mexico and Texas. In east-central New Mexico, the Ogallala aquifer rests on Dockum Group redbeds, which serve as the basal confining layer. The Ogallala is a water table, or unconfined, aquifer (Lee Wan 1990). The Ogallala aquifer has a southeasterly regional gradient of about 17 feet per mile (0.0032 meters per meter, see **Figure 2-2**). Well yields vary from less than 1 gallon per minute (gpm) in thin silts and sands, and up to 1,600 gpm in thick sands and gravels (Lee Wan 1990). Water quality is generally good, with hardness and fluorides being somewhat high (Lee Wan 1990).

At Cannon AFB, the depth to groundwater is greater than 200 feet, and the Ogallala aquifer has an average saturated thickness of 120 feet based on mid-1960s data. Saturated thickness ranges from 93 to 143 feet, and is influenced by the configuration of the erosional nonconformity surface marking the top of the Dockum Group. The local groundwater gradient is southeasterly at 7.5 feet per mile (Lee Wan 1990). Yields in tests of Cannon AFB water wells have ranged from 776 liters per minute (205 gpm) to 4,353 liters per minute liters per minute (1,150 gpm). Specific capacities range from 0.14 cubic meters per meter (m^3/m) (11.4 gallons per foot to 0.35 m^3/m (27.9 gallons per foot) (Lee Wan 1990).

Very rough estimates of hydraulic conductivity were made from well pump tests in water wells 5 and 9 (**Figure 2-3**) using the Theis equation. An estimate of hydraulic conductivity for water well 8 was based on water level recovery data using the Bouwer and Rice approach (Lee Wan 1990). The data used in these calculations were obtained to evaluate pump rates, efficiency, and well yield, and were not intended for use in calculating aquifer properties. The results of these calculations should therefore be considered as first approximations.

Hydraulic conductivity values for water wells 5 and 9 were found to be approximately 2.0×10^{-3} centimeters per second (cm/sec). Calculations for water well 8 resulted in a hydraulic conductivity of 2.0×10^{-2} cm/sec. In addition, slug testing of two monitoring wells (MW-O and MW-N) was completed by Woodward-Clyde (W-C) in February 1995 (W-C 1995a). The estimated hydraulic conductivities from these slug tests were both 3×10^{-3} cm/sec. These estimates appear to be low when compared to published hydraulic conductivity data for sands and gravels. As reported in Lee Wan (1990), a groundwater flow velocity of about 45 meters per year (150 feet per year) has been estimated. This calculates out to a hydraulic conductivity of

approximately 1.4×10^{-4} cm/sec. Again, this appears to be low when compared with published data (Freeze and Cherry 1979).

The presence of interstitial clays may account for both the variability and the low values of hydraulic conductivities. Boring logs from Cannon AFB projects and published reports (Lee Wan 1990) indicated that interstitial and interstratified clays are abundant in the Ogallala Formation.

Recharge to the Ogallala is primarily through precipitation. As reported in Lee Wan (1990), a recharge rate of 0.5 inches per year was calculated using the Theis equation. Lee Wan (1990) reported that the recharge rate may be as much as 1.0 inches per year. Due to the high evapotranspiration rate and low precipitation, recharge probably occurs only during heavy rainfall events in which the infiltration capacity of the soil is exceeded and runoff occurs, or during cool months when precipitation exceeds evapotranspiration. Excess runoff flows to playas, and the presence of water in playas may allow deep percolation to the aquifer. The occurrence of this process is evidenced by the presence of clay deposits in, and thin or nonexistent caliche layers directly below, playas. Caliche is soluble in acidic rainwaters, and is leached over time to form percolation pathways.

Discharge from the Ogallala occurs through well pumping and springs along the eroded margins of the formation. Spring discharge does not occur on or near Cannon AFB. Domestic and irrigation water wells are common on and around the base, however. The rate of discharge exceeds the rate of recharge. Water levels in the Ogallala have declined steadily from the 1930s to the present. A decline of 50 to 100 feet has been observed in the area around Clovis, New Mexico for the period from the 1930s to 1980. Lee Wan (1990), states "the largest area of water level decline exceeding 100 feet occurs south of the Canadian River extending from Curry County, New Mexico to Crosby County, Texas."

The dominant uses of groundwater in the Cannon AFB area are as potable and irrigation water. Numerous wells are found in the Cannon AFB area, most of which provide only irrigation water (**Figure 2-3**).

The Ogallala will continue to be used as the primary source of potable and irrigation water for eastern New Mexico. The New Mexico State Engineer designated Curry County as a Water Basin in 1989. This designation allows for regulation of water rights, usage, and well drilling (W-C 1991).

2.1.6 Soils

Soils in the vicinity of Cannon AFB are classified as silty sand (SM) to clayey sand (SC) under the Unified Soil Classification System (USCS), and as aridisols (calciorthids) under the Soil Conservation Service Comprehensive Soil Classification System. The following summary is based on the Soil Conservation Service Curry County Soil Survey as reported in Lee Wan (1990).

The most common soil type on the base is the Amarillo fine sandy loam, 0- to 2-percent slope phase (map symbol Ab on **Figure 2-4**). This soil consists of a thin sandy A horizon, well-defined clayey B1-3 horizons, with a calcic B3 horizon at depths below 40 inches. The calcic B3 horizon lies on a calcic C horizon, or on caliche. The Amarillo fine sandy loam is present on all relatively flat surfaces at the base, but is also found on slopes associated with playas (map symbol Ac).

Clovis fine sandy loams, 0- to 2-percent slope phase (map symbol Cb) and 2- to 5-percent slope phase (map symbol Cc), are very similar to Amarillo fine sandy loams. In the Clovis soils, the depth to the calcic C horizon ranges from 28 to 56 inches. The depth to caliche exceeds 56 inches. Clovis and Amarillo fine sandy loams occur in close association.

In a few limited areas, particularly along the steeper slopes around playas, Mausker fine sandy loam, 0- to 2-percent slope phase (map symbol Ma), and 2- to 5-percent phase (map symbol M6) are found. Mausker fine sandy loams have no B horizons and are very calcareous. The calcic C horizon is within 2 feet of the surface.

The A and B horizons of Amarillo and Clovis fine sandy loams are rapidly to moderately permeable. Mausker fine sandy loam A and Ac horizons are rapidly permeable. Permeabilities in calcic B and C horizons are moderate (Lee Wan 1990).

2.1.7 Background Metals Concentrations in Soil

The natural soils in the vicinity of Cannon AFB are alkaline and generally rich in metals. Typically high concentrations of aluminum, iron, magnesium, manganese, and potassium combine with elevated levels of many other metals in the natural soils. Calcium is naturally present in the soils at levels up to nearly 2.00E+05 milligrams per kilogram (mg/kg). Tightly cemented layers of "caliche" are present in several horizons in the natural soils and the Ogallala aquifer below. As stated in **Section 2.1.5**, the Ogallala Formation as a whole should have a relatively high CEC, which should, in turn, inhibit the migration of charged contaminants, especially the ionic forms of metals.

The background levels of inorganic compounds in surface and subsurface soil at Cannon AFB are presented in **Table 2-1** in the form of a mean value and statistical information on the ranges encountered for each element. **Table 2-1** has been adapted from a final report by W-C dated September 1997 entitled "Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon AFB, New Mexico." This report summarizes background data for soil from numerous past investigations in the vicinity.

2.1.8 Water Quality

The groundwater quality at Cannon AFB is generally good, with dissolved solids ranging from 2.50E+02 to 5.00E+02 milligrams per liter (mg/L) (Gutentag, et al. 1984) and fluorides ranging from 2.2E+00 to 2.7E+00 mg/L (William Matotan and Associates, Inc. 1985).

2.2 SITE DESCRIPTIONS AND BACKGROUND

The following sections provide site descriptions and backgrounds for the eight sites included in this investigation. Site history and background information is from historical documents (e.g., available written communication between Cannon AFB and NMED regarding notification of a petroleum release, available tank closure and tank excavation worksheets, previous environmental investigation documents, and as-built drawings) and communication with Cannon AFB personnel. Additionally, historical aerial photographs, historical site photographs, and current site photographs were reviewed in order to help identify any additional areas of potential concern at each site. Available historical documentation, historical aerial photographs, and historical/current site photographs are provided in **Appendix G**. Site descriptions and background information is provided below for the following eight sites: SS-C501, ST-C502, ST-C503, ST-C504, ST-C505, SS-C507, SD-C508, and TA/AS-C129 (SWMU 129)

2.2.1 Former AGE Dispatch Facility Spills Site (SS-C501)

2.2.1.1 Site Description and Background (SS-C501)

The Former AGE Dispatch Facility Spills Site (SS-C501) is in the central portion of Cannon AFB, northeast of Building 186, and adjacent to Chindit Boulevard. The site consists only of the asphalt parking lot formerly used to store AGE. The site is approximately 450 feet long and 120 feet wide (approximately 1.2 acres).

Based on Cannon AFB personnel interviews conducted during the 2011 site visit (**Appendix G**), the site was formerly used as an AGE dispatch facility where AGE was stored. At the time AGE was stored at the site the asphalt pavement was cracked in several areas. At least two diesel fuel spills (up to 60 gallons each) have historically occurred at this site. Although the exact locations are not known, the spills reportedly occurred in the north-central and south-central portions of the site.

2.2.1.2 Previous Investigation Results (SS-C501)

During a 2009 shallow soil sampling investigation (URS 2009), a total of four soil samples were collected, using a hand auger, from depths of 1 to 3 feet below ground surface (bgs). Samples were analyzed for total petroleum hydrocarbon (TPH)-diesel range organics (DRO); benzene, toluene, ethylbenzene, and xylenes (BTEX); and polychlorinated biphenyls (PCBs). Samples were nondetect for BTEX and PCBs. Results indicated a release of TPH-DRO at two sample points (maximum concentration of 1.10E+01 mg/kg at SS-C501-100, and 6.00E+00 mg/kg at SS-C501-103) (URS 2009). **Table 2-2a** summarizes previous samples collected for chemical analysis. **Table 2-2b** summarizes the previous analytical data and screening results. **Figure 2-5** shows the previous sampling locations.

2.2.2 Former Gas Station Site (ST-C502)

2.2.2.1 Site Description and Background (ST-C502)

The Former Gas Station Site (ST-C502) is in the north central portion of Cannon AFB, on the east corner of Air Commando Way and Kermit Evans Avenue (formerly Argentia Avenue). The site boundary encompasses all of the former site features and the asphalt parking area surrounding the former gas station. The site is approximately 145 feet by 165 feet (approximately 0.5 acre) and is bound by the sidewalk adjacent to Air Commando Way to the northwest, the curb of Kermit Evans Avenue to the southwest, the end of the asphalt parking lot to the southeast, and the edge of the asphalt parking lot to the northeast. The site currently contains the Cannon Federal Credit Union building (Building 368), a grassed area northwest of Building 368, an asphalt parking lot, and drive-thru lanes adjacent to Building 368 (to the northeast).

This site formerly functioned as a gas station and vehicle service center. The site formerly contained three 10,000-gallon USTs. The location of the former site features and the limits of the former UST excavation shown on **Figure 2-6** are based on an as-built drawing of the Former Gas Station and the 1995 United States Geological Survey (USGS) site map (USGS 1995) (see **Appendix G**).

2.2.2.2 Previous Investigation Results (ST-C502)

Previous investigation results summarized in this section were taken from the 1995 USGS data submission entitled "Investigation of Eight Underground Storage Tank Facilities on Cannon AFB and Melrose Bombing Range, New Mexico, Volume 1" (USGS 1995). **Table 2-3a** summarizes previous samples collected for chemical analysis. **Table 2-3b** summarizes the previous analytical data and screening results. **Figure 2-6** shows the previous sampling locations.

During the January 1995 UST removal action, a private contractor collected six soil samples from the open excavation, following the removal of the three USTs. Samples were taken from the corners and sides of the excavated area at a depth 2 feet below the bottom of the tanks (approximately 14 feet bgs). One sample taken from the southwest end of the excavation had a concentration of 2.45E+03 mg/kg total recoverable petroleum hydrocarbons (TRPH). No other samples contained TRPH concentrations that exceeded reporting limits.

On April 13 and 14, 1995, the USGS completed an investigation of the former location of the three USTs in order to validate the analytical results from soil samples taken during the UST removal action. Nine soil borings were completed and 11 subsurface soil samples were collected within and around the limits of the previous UST excavation, from depths ranging from 10 to 16 feet bgs (i.e., near the base of the former USTs). The results from the field screening (gas chromatography) indicated no contamination, and lab analysis (gasoline range organics [GRO] method) confirmed that concentrations were below reporting limits.

On July 1 and 2, 1995, the USGS began an investigation of the pump island area. Eight soil borings were advanced, and eight subsurface soil samples were collected in order to determine whether or not the recently removed fuel dispensers had leaked. Four samples were initially taken, one from each end of the two pump islands. Field screening indicated high concentrations of contamination in CAFB-FAC0368-10 (at the northeast end of the southeast island). Laboratory results identified a TPH-GRO concentration of 1.00E+03 mg/kg at a depth of 24 to 25 feet bgs at CAFB-FAC0368-10. Based on the field screening, four additional samples were taken approximately 7 feet from CAFB-FAC0368-10 at 90 degree angles to one another. All four samples were nondetect for TPH-GRO, although one sample contained 5.10E+00 mg/kg of TPH-DRO. These four samples were taken from a maximum depth of 15 feet bgs. Due to the presence of hard caliche, present in varying degrees from approximately 15 to 50 feet bgs in this area, direct push samples could not be readily obtained from depths greater than 16 feet bgs. To determine the extent of downward migration of the contamination at CAFB-FAC0368-10, a Mobile B53 drill rig was used to collect samples at this location on August 25 and 26, 1995. TPH-GRO concentrations decreased with depth, and, at 50 to 52 feet bgs, the concentration of TPH-GRO was below reporting limits (1.00E+00 mg/kg).

2.2.3 Base Support/Operations Generator Former UST Site (ST-C503)

2.2.3.1 Site Description and Background (ST-C503)

The Base Support/Operations Generator Former UST Site (ST-C503) is in the west-central portion of Cannon AFB, south and east of the intersection of Air Commando Way and Allison Avenue, and to the southeast of Building 600. The site boundary (for purposes of this investigation) includes only the limits of the previous UST removal excavation. The site is approximately 22 by 25 feet (0.01 acre), and is bound by a brick wall to the northwest, the edge of the asphalt pavement to the southwest, a fence to the southeast, and a grass area to the northeast. Primarily bare soil is present at the surface.

This site formerly contained a 500-gallon diesel UST, which fueled the emergency generator, prior to the UST removal in October 1994. The base of the tank was approximately 7 feet bgs.

2.2.3.2 Previous Investigation Results (ST-C503)

Previous investigation results summarized in this section were taken from the 1995 USGS data submission entitled "Investigation of Eight Underground Storage Tank Facilities on Cannon AFB and Melrose Bombing Range, New Mexico, Volume 1" (USGS 1995). **Table 2-4a** summarizes previous samples collected for chemical analysis. **Table 2-4b** summarizes the previous analytical data and screening results. **Figure 2-7** shows the previous sampling locations.

During the October 1994 UST removal action, four soil samples were taken from a depth of 9 feet bgs. Three of these samples had concentrations above reporting limits, with a maximum concentration of 1.81E+04 mg/kg TPH. Following the removal of an additional 2 feet of soil,

two additional soil samples were collected from 11 feet bgs. Both of these samples had elevated TPH concentrations: 7.05E+02 mg/kg on the north end of the excavation and 1.37E+03 mg/kg on the south end.

Between April and August 1995, the USGS completed an investigation of the area formerly containing the UST. Eight soil borings were advanced and 21 subsurface soil samples were collected from depths ranging from 10 to 21 feet bgs (i.e., near the base of the former UST and below the limits of the former excavation). Analytical results from these samples indicated contamination existed below the limits of the excavation. A maximum TPH-DRO concentration of 3.50E+03 mg/kg was discovered in CAFB-FAC0600-03 at a depth of 14 to 16 feet bgs. A sample from 19 to 21 feet bgs at this location contained 7.80E+00 mg/kg TPH-DRO. A concentration of 8.20E+02 mg/kg TPH-DRO was identified at CAFB-FAC0600-05 at a depth of 10 to 12 feet bgs. A sample from 14 to 16 feet bgs at this location contained 1.40E+01 mg/kg TPH-DRO. At the other six sample locations, the highest detected concentration of TPH-DRO was 1.80E+01 mg/kg at CAFB-FAC0600-07 at 14 to 16 feet bgs.

2.2.4 Hospital Abandoned UST Site (ST-C504)

2.2.4.1 Site Description and Background (ST-C504)

The Hospital Abandoned UST Site (ST-C504) is in the northwestern portion of Cannon AFB, near the northern corner of the hospital (Building 1400), and adjacent to the access road behind the hospital. Directly above the UST, the surface consists of primarily bare soil, with the remaining areas covered by asphalt pavement. The site also includes several cooling towers, a transformer, and several concrete pads (previously used for aboveground utilities). These aboveground utilities are inside a chain-link fence. The site is approximately 95 by 60 feet (approximately 0.13 acre), and is bordered by the hospital to the southeast, vehicle ports connected to the hospital to the southwest, and hospital driveways and parking areas to the north, east, and west.

Based on the Tank Closure Worksheet for UST 1400A (see **Appendix G**), the 25,000-gallon diesel UST was abandoned in place on October 5, 1994. The UST was formerly associated with an emergency generator at the hospital. The UST is constructed of steel and its base is approximately 18 feet bgs (USGS 1995).

A ground-penetrating radar (GPR) survey of the site was conducted as a part of this SI. The tank location was defined and the tank dimensions were determined to be 32 feet by 12 feet, as shown on **Figure 2-8**. Additionally, underground utility locations were marked.

2.2.4.2 Previous Investigation Results (ST-C504)

Previous investigation results summarized in this section were taken from the "Subsurface Investigation of 25,000 gallon UST Report" (Keers 1994a), the "Limited Subsurface Investigation for the Evaluation of Suspect Subsurface Contamination Report" (Keers 1994b),

and the "Investigation of Eight Underground Storage Tank Facilities on Cannon AFB and Melrose Bombing Range, New Mexico, Volume 1" (USGS 1995). **Table 2-5a** summarizes previous samples collected for chemical analysis. **Table 2-5b** summarizes the previous analytical data and screening results. **Figure 2-8** shows the previous sampling locations.

On August 17, 1994, Keers collected three subsurface soil samples adjacent to the UST at a depth of approximately 14 feet bgs. A maximum TRPH concentration of 2.80E+03 mg/kg was detected at soil boring 94600-081794-01 on the north side of the UST. A detection of 6.40E+02 mg/kg was also detected at soil boring 94600-081794-02 on the west-central side of the UST. The sample from soil boring 94600-081794-03 was nondetect (Keers 1994a).

On September 22, 1994, Keers collected four soil samples around the UST from depths between 18 and 20 feet bgs. Two samples were collected adjacent to the UST, and two were collected to the north and northeast of the UST. A maximum TRPH concentration of 8.20E+03 mg/kg was detected at soil boring 94600-092294-02 on the northwest side and adjacent to the UST. The three other samples collected were nondetect (Keers 1994b).

On April 12 and 14, 1995, the USGS advanced six soil borings and collected 10 subsurface soil samples in order to verify the existence of contamination at this site. TPH-DRO was detected at five of the six soil borings. Soil boring CAFB-FAC1400-5 was sampled at 10 feet bgs and was found to be nondetect (result was from field screening only; sample was not submitted for laboratory analysis). The highest concentration of TPH-DRO was detected at CAFB-FAC1400-3 (adjacent to the west-central portion of the UST) at 18 to 20 feet bgs (9.90E+03 mg/kg). Results for soil borings CAFB-FAC1400-1 (southwest), CAFB-FAC1400-2 (east-central), and CAFB-FAC1400-4 (northeast) indicated that TPH-DRO contamination existed on all sides of the abandoned UST.

In July and August 1995, USGS further investigated soil boring location CAFB-FAC1400-3 using a Mobile B53 auger drilling rig. Results indicated that TPH-DRO contamination extended to 66 feet bgs. The highest concentration of TPH-DRO detected at CAFB-FAC1400-3 was at 50.5 feet bgs (1.10E+04 mg/kg). Additionally, a direct push rig was used to collect shallow samples (ranging from 19 to 26 feet bgs) at step out locations CAFB-FAC1400-7 (south–southeast), -8 (northeast), and -9 (northwest). These three locations were completed 10 to 25 feet from the UST to help further determine the horizontal extent of TPH-DRO contamination. Results indicated TPH-DRO contamination was present to the east and west but at significantly lower concentrations (ranging from 2.00E+01 mg/kg to 8.90E+02 mg/kg).

In December 1995, USGS again conducted additional sampling at soil boring location CAFB-FAC1400-3 using a Gardner-Denver 17W rotary drilling rig. Results indicated that TPH-DRO contamination extended to 75 feet bgs (9.30E+03 mg/kg) but was not present (nondetect) at 83 and 91 to 92 feet bgs. Additionally, a direct push rig was used to collect shallow samples (ranging from 23 to 26 feet bgs) at step out locations to the west. The three step out locations were completed 10 to 15 feet to the west of previous soil boring CAFB-FAC1400-9. Results at soil borings CAFB-FAC1400-10 (west) and -11 (northwest) were nondetect for TPH-DRO. A

small detection of TPH-DRO (1.60E+01 mg/kg) was present at 24 to 26 feet bgs at soil boring CAFB-FAC1400-12 (north).

2.2.5 Flightline Generator USTs Site (ST-C505)

2.2.5.1 Site Description and Background (ST-C505)

The Flightline Generator USTs Site (ST-C505) is in the northeast portion of Cannon AFB, due north of the north end of the main runway, and approximately 300 feet south of Aderholt Loop. The site boundary (for purposes of this investigation) encompasses only the previous USTs excavation area. The site is approximately 22 by 23 feet (0.01 acre) and is bound to the west by Building 3060, an existing UST in a concrete vault, and a concrete trench between the two. To the north, east, and south, the site boundary extends approximately 10 feet beyond the limits of the former USTs excavation. Primarily bare soil is present at the surface. The Building 3060 houses an emergency generator used in case of a power loss to the flightline electrical systems. A concrete trench covered with steel plates houses the diesel fuel line that connects the existing UST to the generator.

This site formerly contained two 500-gallon diesel USTs associated with the emergency generator in Building 3060. The USTs were removed in December 1994 and January 1995. The exact dimensions of the former USTs are unknown; however, the bases of the USTs were approximately 9 feet bgs (USGS 1995). Locations of the USTs shown on **Figure 2-9** are based on two Excavation Site Worksheets completed on December 14 and 15, 1994 (see **Appendix G**). The approximate limits of excavation were also based on site photographs taken following the 1995 USGS investigation, which show an area of bare soil, east of Building 3060, matching the excavation dimensions on the worksheets.

2.2.5.2 Previous Investigation Results (ST-C505)

Previous investigation results summarized in this section were taken from a 7-Day Release Notification letter from Cannon AFB to NMED (December 1994) and the "Investigation of Eight Underground Storage Tank Facilities on Cannon AFB and Melrose Bombing Range, New Mexico, Volume 1" (USGS 1995). **Table 2-6a** summarizes previous samples collected for chemical analysis. **Table 2-6b** summarizes the previous analytical data and screening results. **Figure 2-9** shows the approximate locations of the samples previously collected by the USGS. Because the exact excavation footprint was not able to be determined, soil sample locations collected during the 1994 UST removal action are not shown.

During the removal of the two USTs, eight soil samples were collected—one from each corner of the two tanks. The bases of the two USTs were approximately 9 feet bgs. Samples were collected from 2 feet below the bases of the USTs. Results from the soil samples indicated that UST 1A samples were all below reporting limits (concentrations ranged from 6.30E+00 to 1.96E+01 mg/kg); however, UST 2B samples were all above reporting limits for TRPH. TRPH concentrations ranged from 1.19E+02 to 1.78E+03 mg/kg, with detectable concentrations of

toluene (maximum of 3.40E-02 mg/kg), ethylbenzene (maximum of 7.40E-02 mg/kg), and total xylenes (maximum of 7.40E-02 mg/kg). Following the receipt of these analytical results, additional contaminated soil was excavated and removed from the UST 2B excavation. After additional excavation, results from another round of sampling identified TRPH in concentrations of 1.03E+03 mg/kg on the west end, and 1.07E+02 mg/kg on the east end of this excavation.

On April 11, 1995, the USGS completed seven soil borings (CAFB-FAC3060-01 through -07) and collected nine subsurface soil samples from this site in order to validate the analytical results from soil samples collected during the removal of the USTs. Subsurface soil sample depths ranged from 9 to 16 feet bgs. Although field screening indicated low levels of contamination, TPH-DRO laboratory results identified high levels of contamination at 9 to 11 feet bgs in two soil borings (1.30E+03 mg/kg at CAFB-FAC3060-02 and 5.30E+03 mg/kg at CAFB-FAC3060-03). TPH-DRO concentrations were significantly lower in deeper samples (14 to 16 feet bgs) collected at CAFB-FAC3060-02 (8.70E+00 mg/kg) and CAFB-FAC3060-03 (2.30E+01 mg/kg).

On June 28, 1995, the USGS completed four additional soil borings (CAFB-FA3060-08, CAFB-FA3060-09, CAFB-FA3060-10, and CAFB-FA3060-11) and collected four subsurface soil samples to help further determine the horizontal extent of contamination. Subsurface soil sample depths ranged from 9 to 13 feet bgs. Results indicated the contamination extended further to the north and west. The maximum TPH-DRO concentration in the four samples was 1.60E+02 mg/kg at CAFB-FAC3060-10.

On July 25, 1995, the USGS further investigated soil boring location CAFB-FAC3060-03 using a Mobile B53 auger drilling rig. One sample was collected from 24 feet bgs, and TPH-DRO was detected at 7.80E+01 mg/kg.

On August 23, 1995, the USGS completed two additional soil borings (CAFB-FA3060-12 and CAFB-FA3060-13) and collected two subsurface soil samples to help further determine the northern extent of contamination. Subsurface soil sample depths ranged from 11 to 13 feet bgs. Results were nondetect for TPH-DRO.

2.2.6 Former POL Yard Refueling Area Site (SS-C507)

2.2.6.1 Site Description and Background (SS-C507)

The Former POL Yard Refueling Area Site (SS-C507) is near the northern boundary of Cannon AFB, southeast of the main entrance, and west of the active POL Yard. The Former POL Yard refueling area is inside the fence that surrounds the active POL Yard. The site is approximately 580 feet by 410 feet (approximately 5.5 acres) and is bound by a fence to the north, south and west, and the base of several concrete berms to the east. The concrete berms are part of the active POL Yard aboveground storage tank (AST) secondary containment system.

Much of the site is covered in asphalt and concrete paving. The majority of the ovular island in the middle of the site is covered in crushed volcanic rock, with the northern third of the island

containing bare soil, some grass, and a former ornamental pond that is now dry and lined with rocks and gravel. Areas of bare soil, sparse vegetation and grass are present on the north, south, and west parts of the site. The area between the retaining walls and the pavement on the east part of the site consists of bare soil and gravel with little to no vegetation.

The former POL Yard Refueling Area was closed in June/July 2009 and has remained inactive. Most aboveground site features, structures, and piping have been removed. Underground piping is still present at the site, but has been properly drained and capped. An active oil/water separator (OWS), in a below-ground concrete vault, and adjacent to a 55-gallon drum concrete secondary containment area, is still present at the site. Four other below ground concrete vaults, three containing fuel piping and one formerly containing an OWS, are also still present at the site.

Historical site activities included delivery and dispensing of fuels (diesel fuel, motor gasoline [MOGAS], jet propellant [JP]-4, and JP-8). Delivery to the site occurred via 8,000 gallon tanker trucks, train tanker cars, and pipelines. Pipelines carried fuels from a former pipeline to the north of the site, and from the unloading areas to the various ASTs inside the existing concrete containment berms to the east. No fuels were stored in the former POL Yard Refueling Area.

2.2.6.2 Previous Investigation Results (SS-C507)

In 2009, subsurface soil samples were collected from eight locations at and around the site. One sample (SS-C507-103) was taken from an area outside of the current site boundary. Samples were collected, using a hand auger, from depths of 1 to 3 feet bgs and analyzed for TPH-DRO, BTEX, and PCBs. Results indicated the presence of DRO at three sample points (maximum concentration of 7.10E+00 mg/kg at SS-C507-104, 6.30E+00 mg/kg at SS-C507-100, and 5.80E+00 mg/kg at SS-C507-102) and PCB-1260 at one sampling location (2.80E-02 mg/kg at SS-C507-106). All samples were nondetect for BTEX (URS 2009). **Table 2-7a** summarizes previous samples collected for chemical analysis. **Table 2-7b** summarizes the previous analytical data and screening results. **Figure 2-10** shows the previous soil sampling locations.

2.2.7 Surface Disposal Area Site (SD-C508)

2.2.7.1 Site Description and Background (SD-C508)

The Surface Disposal Area Site (SD-C508) is in the southeast portion of Cannon AFB, east of the former north-south runway and north of SWMU 107. This site is approximately 600 feet north of an area of the base used by Cannon AFB Explosives Ordnance Disposal (EOD) personnel. The EOD site is well marked by warning signs placed 500 feet from the site. None of the SD-C508 sampling activities will be completed within the area marked with the warning signs. The site includes an area of visible debris on the ground surface (some burned), including an ammunition can lid, metal slag, and mechanical parts. The source of the visible surface debris and the history of this site are unknown. The surface disposal site was identified in 2009 while

URS was conducting an investigation at an adjacent site. The site is not currently used by Cannon AFB.

During the site visit in 2011, burned debris was visible at the surface throughout the grassed field. The extent of the visible surface debris was found to be within a circular shaped area where the ground surface was slightly elevated (i.e., mounded). This mounded area also had visibly different vegetation at the surface compared to the rest of the grassed field. The vegetation on the mounded area was noticeably shorter and sparser compared to the surrounding vegetation. The extent of this area is approximately 200 by 240 feet (approximately 1 acre). The site boundary at SD-C508 was arbitrarily expanded to encompass the sparsely vegetated mounded area, and extends approximately 20 to 40 feet outside that area. A dirt road created by heavy vehicle traffic crosses the northern part of the site.

2.2.7.2 Previous Investigation Results (SD-C508)

During the 2009 shallow soil sampling investigation (URS 2009), a total of three soil borings were completed and six soil samples were collected, using a hand auger, from depths of 1 to 3 feet bgs. Samples were analyzed for TPH-DRO, BTEX, PCBs, and RCRA metals. TPH-DRO was detected in four of the six soil samples, and various metals were detected. TPH-DRO was detected at a maximum concentration of 1.20E+02 mg/kg (at SD-C508-100-HA-01). Maximum concentrations of the following constituents were identified at the following locations: arsenic (3.30E+00 mg/kg at SD-C508-102-HA-01), barium (3.07E+02 mg/kg at SD-C508-100-HA-01), cadmium (2.00E+00 mg/kg at SD-C508-102-HA-01), chromium (1.08E+01 mg/kg at SD-C508-102-HA-01), lead (2.80E+01 mg/kg at SD-C508-102-HA-01), mercury (2.70E-02 mg/kg at 101-HA-01), selenium (3.70E-01 mg/kg at SD-C508-100-HA-03), and silver (1.00E+00 mg/kg at SD-C508-101-HA-01) (URS 2009). **Table 2-8a** summarizes previous samples collected for chemical analysis. **Table 2-8b** summarizes the previous analytical data and screening results. **Figure 2-11** shows the previous soil sampling locations.

2.2.8 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129)

2.2.8.1 Site Description and Background (TA/AS-C129) (SWMU129)

The Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129) is in the northeast portion of the Cannon AFB, approximately 300 feet north of Building 208, and just south of the contractor storage area south of Aderholt Loop. The site consists of two main areas: former Facility 244 and the former leach field to the southeast. The former Facility 244 site boundary is approximately 65 by 50 feet, and is bound to the west by a fenced-in storage area that currently contains several pumps, piping, and related equipment. The former leach field site boundary is approximately 40 by 50 feet and encompasses the portions of the former leach field containing perforated piping used to discharge water into the subsurface.

The Waste Oil Storage Facility 244 was originally built in 1991 to store waste petroleum products generated during routine maintenance of aircraft and service vehicles. The facility was

used infrequently due to design and operational problems. Historically, lubricating oils, hydraulic fluids, and solvents were reportedly stored in tanks at this site. Fuels were reportedly never stored at this site (Parallax 2000).

The Facility 244 site previously consisted of five 5,000-gallon ASTs supported on reinforced concrete saddles. The tanks were surrounded by an approximately 30-foot by 50-foot concrete containment pad with a 9-inch retaining curb (Parallax 2000). An OWS was present on the west side of the site, with dump pits to the north. A cleanout to the south of the OWS was connected by a pipeline to a leach field. Historic documentation for TA/AS-C129 (SWMU129) is provided in **Appendix G**.

The leach field to the southeast of the facility received the water fraction from a central OWS. The leach field consisted of perforated plastic piping surrounded by crushed stone (Parallax 2000).

2.2.8.2 Previous Investigation Results (TA/AS-C129) (SWMU129)

After removal of the containment pad at Facility 244, a preliminary site assessment of the underlying soils was completed. The underlying soil was examined visually and representative grab soil samples were collected from each corner, the center, and in areas likely to have been contaminated (e.g., adjacent to and underlying the OWS vault, oil dump pits, and surface areas adjacent to the retaining curbs at ground level). The ambient atmosphere directly above the ground surfaces in areas of potential contamination was monitored for VOCs using a photoionization detector (PID) and Draeger® contaminant-specific (benzene) colorimetric tubes. Neither of these instrument surveys indicated concentrations of contaminants exceeding U.S. Environmental Protection Agency (USEPA) risk-based concentrations (RBCs) (Parallax 2000). **Table 2-9a** summarizes previous samples collected for chemical analysis. **Table 2-9b** summarizes the previous analytical data and screening results. **Figure 2-12** shows the previous soil sampling locations.

Laboratory analysis indicated that there were no chemicals of potential concern (COPC) present in the soils underlying Facility 244 that exceeded USEPA RBCs (Parallax 2000). TRPH were detected at 244SS06 (north of the OWS), 244SS07 (south of the OWS) and 244SS08 (east of the OWS). The maximum TRPH concentration was 3.00E+02 mg/kg at 244SS06. Concentrations of selenium were detected at 244SS07 (2.00E+01 mg/kg) and at 244SS08 (1.70+01 mg/kg). Based on these analytical results, facility 244 was recommended for corrective action complete (CAC) in the Parallax 2000 report. In a letter from NMED dated September 14, 2009 (see **Appendix G**) NMED indicated that the leach field at TA/AS-C129 (SWMU129) must be sampled before the site can be considered for CAC.

TABLE 2-1
SUMMARY OF BACKGROUND ELEMENTAL CONCENTRATIONS IN SOIL SAMPLES AT CANNON AFB, NEW MEXICO

	Mean (x)		Standard Deviation (s)		95% Upper Tolerance Limit of Background Concentrations	
Element	**Surface Soil**	**Subsurface Soil**	**Surface Soil**	**Subsurface Soil**	**Surface Soil**	**Subsurface Soil**
Aluminum	5,508	5,932	1,964	2,183	8,950	12,214
Antimony	ND (1)	ND (1)	ND (1)	ND (1)	3.15 (1)	16 (1)
Arsenic	2.1	2.1 (2)	0.48	0.96 (2)	3.6	4.3 (2)
Barium	100	210	165	199	670	890
Beryllium	0.35 (2)	0.35 (2)	0.13 (2)	0.17 (2)	0.78 (2)	0.73 (2)
Cadmium	ND (1)	ND (1)	ND (1)	ND (1)	0.435 (1)	1.3 (1)
Calcium	5,645	89,410	11,366	64,611	44,800	237,498
Chromium (total)	7.1	5.6	1.3	2.33	10.5	13.3
Cobalt	2.9	2.6 (2)	1	1.4 (2)	6.6	4.7 (2)
Copper	6.8	3.8 (2)	4.6	1.97 (4)	18.3	8.3 (2)
Iron	6,458	5,148	1,349	2,262	10,100	13,148
Lead	6.8	4.7	1.6	1.7	12	8.7
Magnesium	1,066	4,260	390	3,856	1,930	19,300
Manganese	139	83	51	50	307	333
Mercury	0.025 (2)	ND (1)	0.016 (2)	ND (1)	0.056 (2)	0.019 (1)
Nickel	5.5	5.9 (2)	1.6	2.41 (2)	11	14.9 (2)
Potassium	1,345	1,222	413	417	2,691	2,512
Selenium	ND (1)	0.47 (2)	ND (1)	0.31 (2)	0.26 (1)	1.1 (2)
Silver	--- (3)	ND (1)	--- (3)	ND (1)	0.4 (3)	2.65 (1)
Sodium	91	351(2)	10	253 (2)	102	1,227 (2)
Thallium	ND (1)	ND (1)	ND (1)	ND (1)	0.6 (1)	2.65 (1)
Vanadium	14.9	16	2.8	5.2	23.3	32.8
Zinc	15.4	12.1	5.2	4.8	32.2	30.6

Notes:

-All concentrations are in mg/kg. From report entitled "Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico" (W-C 1997).

(1) All analytical samples were nondetect; therefore, a mean and standard deviation were not calculated. One-half the highest reporting limit is used as the 95% UTL. The actual mean, standard deviation, and UTL may be less than these values.

(2) Values determined from a data set including one-half of the reporting limits for nondetects.

(3) Silver was detected in only one sample; therefore, a mean and standard deviation were not calculated. The single detected concentration is used as the 95% UTL.

% = percent

AFB = air force base

mg/kg = milligrams

ND = nondetect

UTL = upper tolerance limit

TABLE 2-2a
SUMMARY OF PREVIOUS SAMPLES FOR CHEMICAL ANALYSIS
SS-C501

Sample Location/ Identification	Depth Interval (feet bgs)	Sample Date	Source	BTEX (EPA 8260)	PCBs (EPA 8082)	TPH-DRO (EPA 8015)	Note(s)
June 2009							
C501-100	1-3	6/24/2009	URS 2009	X	X	X	PID reading = 0.0 ppm
C501-101	1-3	6/24/2009	URS 2009	X	X	X	PID reading = 0.0 ppm
C501-102	1-3	6/24/2009	URS 2009	X	X	X	PID reading = 0.0 ppm
C501-103	1-3	6/24/2009	URS 2009	X	X	X	PID reading = 0.0 ppm
			Totals	**4**	**4**	**4**	

Source:

URS Group, Inc. 2009. Final Evaluation Report. Cannon Air Force Base. Air Force Compliance Clean-up Sites, Identification and Evaluation of DERA Eligibility for AFCEE, Multiple Locations, Prepared for the United States Army Corps of Engineers, Tulsa District.

Notes:

bgs = below ground surface

BTEX = benzene, toluene, ethylbenzene and total xylenes

DRO = diesel range organics

EPA = Environmental Protection Agency

PCB = polychlorinated biphenyl

PID = photoionization detector

ppm = parts per million

TPH = total petroleum hydrocarbons

URS = URS Group, Inc.

X = sample collected

TABLE 2-2b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
SS-C501

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	C501-100 1-3 June 24, 2009			C501-101 1-3 June 24, 2009			C501-102 1-3 June 24, 2009			C501-103 1-3 June 24, 2009		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)															
All BTEX compounds were nondetect	ND	0/4													
PCBs (mg/kg)															
All PCBs were nondetect	ND	0/4													
TPH-DRO (mg/kg)	1.10E+01 F	2/4	1.00E+03	1.10E+01	1.10E+01	F	<	1.20E+01	U	<	1.20E+01	U	6.00E+00	1.10E+01	F

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
F = result between MDL and RL
ID = identification
MDL = method detection limit
mg/kg = milligrams per kilogram
ND = not detected
NMED = New Mexico Environment Department
PCB = polychlorinated biphenyl
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
U = nondetect

TABLE 2-3a
SUMMARY OF PREVIOUS SAMPLES FOR CHEMICAL ANALYSIS
ST-C502

Sample Location/ Identification	Depth Interval (feet bgs)	Sample Date	Source	TPH-DRO (EPA 8015)	TPH-GRO (EPA 8015)	TRPH	Field Analysis (GC)	Note(s)
January 1995								
N corner of UST excavation	14	1/1995	USGS 1995			X		
S corner of UST excavation	14	1/1995	USGS 1995			X		
E corner of UST excavation	14	1/1995	USGS 1995			X		
W corner of UST excavation	14	1/1995	USGS 1995			X		
SE side of UST excavation	14	1/1995	USGS 1995			X		
NW side of UST excavation	14	1/1995	USGS 1995			X		
April 1995								
CAFB-FAC0368-01	10-12	4/13/1995	USGS 1995		X			
CAFB-FAC0368-01	13-15	4/13/1995	USGS 1995		X			
CAFB-FAC0368-02	10-12	4/13/1995	USGS 1995		X			
CAFB-FAC0368-02	14-16	4/13/1995	USGS 1995		X			
CAFB-FAC0368-03	12-14	4/13/1995	USGS 1995		X			
CAFB-FAC0368-04	11-13	4/13/1995	USGS 1995		X			
CAFB-FAC0368-05	10-11	4/13/1995	USGS 1995		X			
CAFB-FAC0368-06	12-14	4/13/1995	USGS 1995		X			
CAFB-FAC0368-07	13-15	4/14/1995	USGS 1995		X			
CAFB-FAC0368-08	10	4/14/1995	USGS 1995				X	Field screening only, result was nondetect
CAFB-FAC0368-09	10	4/14/1995	USGS 1995				X	Field screening only, result was nondetect
July 1995								
CAFB-FAC0368-01M	13-15	7/1/1995	USGS 1995		X			
CAFB-FAC0368-06M	12-14	7/1/1995	USGS 1995		X			
CAFB-FAC0368-10	12-14	7/1 & 7/2/1995	USGS 1995	X	X			
CAFB-FAC0368-11	10-11	7/1/1995	USGS 1995		X			
CAFB-FAC0368-12	12-14	7/1/1995	USGS 1995		X			
CAFB-FAC0368-13	10-11	7/1/1995	USGS 1995		X			
CAFB-FAC0368-14	13-15	7/1/1995	USGS 1995		X			
CAFB-FAC0368-15	12-14	7/1/1995	USGS 1995		X			
CAFB-FAC0368-16	13-15	7/1/1995	USGS 1995		X			
CAFB-FAC0368-17	13-15	7/2/1995	USGS 1995	X				
August 1995								
CAFB-FAC0368-10	24-25	8/25/1995	USGS 1995		X			Duplicate
CAFB-FAC0368-10	35-36	8/26/1995	USGS 1995		X			
CAFB-FAC0368-10	50-52	8/26/1995	USGS 1995		X			
			Totals	**2**	**21**	**6**	**2**	

Source:
United States Geological Survey. 1995. Investigation of Eight Underground Storage Tank Facilities on Cannon Air Force Base and Melrose Bombing Range, New Mexico.

Notes:
bgs = below ground surface
DRO = diesel range organics
EPA = Environmental Protection Agency
GC = gas chromatograph
GRO = gasoline range organics
M = resample
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
USGS = United States Geological Survey
UST = underground storage tank
X = sample collected

TABLE 2-3b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C502

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	N corner of UST excavation 14 January 1995			S corner of UST excavation 14 January 1995			E corner of UST excavation 14 January 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	1.60E+02	2/2	1.00E+03	NA			NA			NA		
TPH-GRO (mg/kg)	1.00E+03	16/27	1.00E+03	NA			NA			NA		
TRPH (mg/kg)	2.45E+03	1/6	1.00E+03	<	unknown	U	<	unknown	U	<	unknown	U

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
GRO = gasoline range organics
ID = identification
J = estimated or below reporting limit
M = resample
mg/kg = milligrams per kilogram
NA = not analyzed
ND = not detected
NE = not established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-3b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C502

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	W corner of UST excavation 14 January 1995			SE side of UST excavation 14 January 1995			NW side of UST excavation 14 January 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	1.60E+02	2/2	1.00E+03	NA			NA			NA		
TPH-GRO (mg/kg)	1.00E+03	16/27	1.00E+03	NA			NA			NA		
TRPH (mg/kg)	2.45E+03	1/6	1.00E+03	**2.45E+03**	unknown		<	unknown	U	<	unknown	U

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
GRO = gasoline range organics
ID = identification
J = estimated or below reporting limit
M = resample
mg/kg = milligrams per kilogram
NA = not analyzed
ND = not detected
NE = not established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-3b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C502

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0368-01 10-12 April 13, 1995			CAFB-FAC0368-01 13-15 April 13, 1995			CAFB-FAC0368-01M 13-15 July 1, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	1.60E+02	2/2	1.00E+03	NA			NA			NA		
TPH-GRO (mg/kg)	1.00E+03	16/27	1.00E+03	5.70E-01	5.00E-01	Q	4.40E-01	5.00E-01	QJ	<	1.00E+00	U
TRPH (mg/kg)	2.45E+03	1/6	1.00E+03	NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
GRO = gasoline range organics
ID = identification
J = estimated or below reporting limit
M = resample
mg/kg = milligrams per kilogram
NA = not analyzed
ND = not detected
NE = not established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-3b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C502

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0368-02 10-12 April 13, 1995			CAFB-FAC0368-02 14-16 April 13, 1995			CAFB-FAC0368-03 12-14 April 13, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	1.60E+02	2/2	1.00E+03	NA			NA			NA		
TPH-GRO (mg/kg)	1.00E+03	16/27	1.00E+03	2.70E-01	5.00E-01	QJ	<	5.00E-01	U	<	5.00E-01	U
TRPH (mg/kg)	2.45E+03	1/6	1.00E+03	NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
GRO = gasoline range organics
ID = identification
J = estimated or below reporting limit
M = resample
mg/kg = milligrams per kilogram
NA = not analyzed
ND = not detected
NE = not established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-3b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C502

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0368-04 11-13 April 13, 1995			CAFB-FAC0368-05 10-11 April 13, 1995			CAFB-FAC0368-06 12-14 April 13, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	1.60E+02	2/2	1.00E+03	NA			NA			NA		
TPH-GRO (mg/kg)	1.00E+03	16/27	1.00E+03	2.50E-01	5.00E-01	QJ	5.70E-01	5.00E-01	Q	<	5.00E-01	U
TRPH (mg/kg)	2.45E+03	1/6	1.00E+03	NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
GRO = gasoline range organics
ID = identification
J = estimated or below reporting limit
M = resample
mg/kg = milligrams per kilogram
NA = not analyzed
ND = not detected
NE = not established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-3b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C502

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0368-06M 12-14 July 1, 1995			CAFB-FAC0368-07 13-15 April 14, 1995			CAFB-FAC0368-10 12-14 July 1 & 2, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	1.60E+02	2/2	1.00E+03	NA			NA			1.60E+02	4.00E+00	Q
TPH-GRO (mg/kg)	1.00E+03	16/27	1.00E+03	<	1.00E+00	U	<	5.00E-01	U	8.00E+02	1.00E+02	Q
TRPH (mg/kg)	2.45E+03	1/6	1.00E+03	NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
GRO = gasoline range organics
ID = identification
J = estimated or below reporting limit
M = resample
mg/kg = milligrams per kilogram
NA = not analyzed
ND = not detected
NE = not established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-3b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C502

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0368-10 24-25 August 25, 1995			CAFB-FAC0368-10 35-36 August 26, 1995			CAFB-FAC0368-10 50-52 August 26, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	1.60E+02	2/2	1.00E+03	NA			NA			NA		
TPH-GRO (mg/kg)	1.00E+03	16/27	1.00E+03	**<u>1.00E+03</u>**	5.00E+01		3.70E+01	1.00E+01	Q	9.70E-01	1.00E+00	J
TRPH (mg/kg)	2.45E+03	1/6	1.00E+03	NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
GRO = gasoline range organics
ID = identification
J = estimated or below reporting limit
M = resample
mg/kg = milligrams per kilogram
NA = not analyzed
ND = not detected
NE = not established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-3b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C502

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0368-11 10-11 July 1, 1995			CAFB-FAC0368-12 12-14 July 1, 1995			CAFB-FAC0368-13 10-11 July 1, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	1.60E+02	2/2	1.00E+03	NA			NA			NA		
TPH-GRO (mg/kg)	1.00E+03	16/27	1.00E+03	<	1.00E+00	U	<	1.00E+00	U	1.80E+01	1.00E+00	
TRPH (mg/kg)	2.45E+03	1/6	1.00E+03	NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
GRO = gasoline range organics
ID = identification
J = estimated or below reporting limit
M = resample
mg/kg = milligrams per kilogram
NA = not analyzed
ND = not detected
NE = not established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-3b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C502

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0368-14 13-15 July 1, 1995			CAFB-FAC0368-15 12-14 July 1, 1995			CAFB-FAC0368-16 13-15 July 1, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	1.60E+02	2/2	1.00E+03	NA			NA			NA		
TPH-GRO (mg/kg)	1.00E+03	16/27	1.00E+03	<	1.00E+00	U	<	1.00E+00	U	<	1.00E+00	U
TRPH (mg/kg)	2.45E+03	1/6	1.00E+03	NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
GRO = gasoline range organics
ID = identification
J = estimated or below reporting limit
M = resample
mg/kg = milligrams per kilogram
NA = not analyzed
ND = not detected
NE = not established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-3b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C502

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0368-17 13-15 July 2, 1995		
				Result	RL	Qual
TPH-DRO (mg/kg)	1.60E+02	2/2	1.00E+03	5.10E+00	4.00E+00	Q
TPH-GRO (mg/kg)	1.00E+03	16/27	1.00E+03	NA		
TRPH (mg/kg)	2.45E+03	1/6	1.00E+03	NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
GRO = gasoline range organics
ID = identification
J = estimated or below reporting limit
M = resample
mg/kg = milligrams per kilogram
NA = not analyzed
ND = not detected
NE = not established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-4a
SUMMARY OF PREVIOUS SAMPLES FOR CHEMICAL ANALYSIS
ST-C503

Sample Location/ Identification	Depth Interval (feet bgs)	Sample Date	Source	TPH	TPH-DRO (EPA 8015)	Note(s)
October 1994 (pre-remedial excavation)						
Under UST	9	10/1994	USGS 1995	X		
Under UST	9	10/1994	USGS 1995	X		
Under UST	9	10/1994	USGS 1995	X		
Under UST	9	10/1994	USGS 1995	X		
Post-remedial excavation						
Northwest side of UST excavation	11	unknown	USGS 1995	X		
Southeast side of UST excavation	11	unknown	USGS 1995	X		
April 1995						
CAFB-FAC0600-01	10-12	4/9/1995	USGS 1995		X	Duplicate
CAFB-FAC0600-01	14-16	4/9/1995	USGS 1995		X	
CAFB-FAC0600-01	19-21	4/9/1995	USGS 1995		X	
CAFB-FAC0600-02	10-12	4/9/1995	USGS 1995		X	
CAFB-FAC0600-02	14-16	4/9/1995	USGS 1995		X	
CAFB-FAC0600-02	19-21	4/9/1995	USGS 1995		X	
CAFB-FAC0600-03	10-12	4/9/1995	USGS 1995		X	
CAFB-FAC0600-03	14-16	4/9/1995	USGS 1995		X	
CAFB-FAC0600-03	19-21	4/9/1995	USGS 1995		X	
CAFB-FAC0600-04	10-12	4/9/1995	USGS 1995		X	
CAFB-FAC0600-04	14-16	4/9/1995	USGS 1995		X	
CAFB-FAC0600-04	18-20	4/9/1995	USGS 1995		X	
CAFB-FAC0600-05	10-12	4/9/1995	USGS 1995		X	
CAFB-FAC0600-05	14-16	4/9/1995	USGS 1995		X	
CAFB-FAC0600-05	19-21	4/9/1995	USGS 1995		X	
June 1995						
CAFB-FAC0600-06	14-16	6/27/1995	USGS 1995		X	
CAFB-FAC0600-06	19-21	6/27/1995	USGS 1995		X	
CAFB-FAC0600-07	14-16	6/27/1995	USGS 1995		X	
CAFB-FAC0600-07	19-21	6/27/1995	USGS 1995		X	
August 1995						
CAFB-FAC0600-08	15-16	8/23/1995	USGS 1995		X	
			Totals	**6**	**20**	

Source:

United States Geological Survey. 1995. Investigation of Eight Underground Storage Tank Facilities on Cannon Air Force Base and Melrose Bombing Range, New Mexico.

Notes:

bgs = below ground surface

DRO = diesel range organics

EPA = Environmental Protection Agency

TPH = total petroleum hydrocarbons

USGS = United States Geological Survey

UST = underground storage tank

X = sample collected

TABLE 2-4b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C503

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	Under UST 9 October 1994 Result	RL	Qual	Under UST 9 October 1994 Result	RL	Qual	Under UST 9 October 1994 Result	RL	Qual
TPH-DRO (mg/kg)	3.50E+03	17/20	1.00E+03	NA			NA			NA		
TPH (mg/kg)	1.81E+04	5/6	1.00E+03	**3.94E+03**	unknown		**6.76E+03**	unknown		**1.81E+04**	unknown	

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-4b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C503

FIELD ID			NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	Under UST			NW end of UST excavation			SE end of UST excavation			CAFB-FAC0600-01		
SAMPLE DEPTH (feet bgs)				9			11			11			10-12		
DATE COLLECTED				October 1994			Not specified			Not specified			April 9, 1995		
	Maximum	Frequency		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	3.50E+03	17/20	1.00E+03	NA			NA			NA			2.40E+00	4.00E+00	J
TPH (mg/kg)	1.81E+04	5/6	1.00E+03	<	unknown	U	7.05E+02	unknown		**1.37E+03**	unknown		NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-4b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C503

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0600-01 14-16 April 9, 1995 Result	RL	Qual
TPH-DRO (mg/kg)	3.50E+03	17/20	1.00E+03	<	4.00E+00	U
TPH (mg/kg)	1.81E+04	5/6	1.00E+03	NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-4b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C503

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0600-01 19-21 April 9, 1995			CAFB-FAC0600-02 10-12 April 9, 1995			CAFB-FAC0600-02 14-16 April 9, 1995			CAFB-FAC0600-02 19-21 April 9, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	3.50E+03	17/20	1.00E+03	2.60E+00	4.00E+00	J	2.60E+00	4.00E+00	J	<	4.00E+00	U	3.10E+00	4.00E+00	J
TPH (mg/kg)	1.81E+04	5/6	1.00E+03	NA			NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-4b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C503

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0600-03 10-12 April 9, 1995 Result	RL	Qual
TPH-DRO (mg/kg)	3.50E+03	17/20	1.00E+03	**2.80E+03**	4.00E+02	
TPH (mg/kg)	1.81E+04	5/6	1.00E+03	NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-4b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C503

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0600-03 14-16 April 9, 1995			CAFB-FAC0600-03 19-21 April 9, 1995			CAFB-FAC0600-04 10-12 April 9, 1995			CAFB-FAC0600-04 14-16 April 9, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	3.50E+03	17/20	1.00E+03	**3.50E+03**	4.00E+02		7.80E+00	4.00E+00	Q	4.10E+00	4.00E+00	Q	2.90E+00	4.00E+00	J
TPH (mg/kg)	1.81E+04	5/6	1.00E+03	NA			NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
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Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-4b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C503

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0600-04 18-20 April 9, 1995			CAFB-FAC0600-05 10-12 April 9, 1995			CAFB-FAC0600-05 14-16 April 9, 1995			CAFB-FAC0600-05 19-21 April 9, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	3.50E+03	17/20	1.00E+03	3.80E+00	4.00E+00	J	8.20E+02	8.00E+01	Q	1.40E+01	4.00E+00	Q	7.60E+00	4.00E+00	Q
TPH (mg/kg)	1.81E+04	5/6	1.00E+03	NA			NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-4b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C503

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0600-06 14-16 June 27, 1995			CAFB-FAC0600-06 19-21 June 27, 1995			CAFB-FAC0600-07 14-16 June 27, 1995			CAFB-FAC0600-07 19-21 June 27, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TPH-DRO (mg/kg)	3.50E+03	17/20	1.00E+03	1.30E+01	4.00E+00	Q	6.50E+00	4.00E+00	Q	1.80E+01	4.00E+00	Q	7.40E+00	4.00E+00	Q
TPH (mg/kg)	1.81E+04	5/6	1.00E+03	NA			NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-4b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C503

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC0600-08 15-16 August 23, 1995 Result	RL	Qual
TPH-DRO (mg/kg)	3.50E+03	17/20	1.00E+03	<	4.00E+00	U
TPH (mg/kg)	1.81E+04	5/6	1.00E+03	NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.
< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
U = nondetect
UST = underground storage tank

TABLE 2-5a
SUMMARY OF PREVIOUS SAMPLES FOR CHEMICAL ANALYSIS
ST-C504

Sample Location/ Identification	Depth Interval (feet bgs)	Sample Date	Source	TPH-DRO (EPA 8015)	TRPH (EPA 418.1)	Field Analysis (GC)	Note(s)
August 1994							
94600-081794-01	14	8/17/1994	Keers 1994a		X		
94600-081794-02	14	8/17/1994	Keers 1994a		X		
94600-081794-03	14	8/17/1994	Keers 1994a		X		
September 1994							
94600-092294-02	18-20	9/22/1994	Keers 1994b		X		
94600-092294-04	18-20	9/22/1994	Keers 1994b		X		
94600-092294-06	18-20	9/22/1994	Keers 1994b		X		
94600-092294-08	18-20	9/22/1994	Keers 1994b		X		
April 1995							
CAFB-FAC1400-01	14-16	4/12/1995	USGS 1995			X	Field screening only, result was nondetect
CAFB-FAC1400-01	16-18	4/12/1995	USGS 1995	X			
CAFB-FAC1400-02	18-20	4/12/1995	USGS 1995	X			
CAFB-FAC1400-03	18-20	4/12/1995	USGS 1995	X			
CAFB-FAC1400-03	22-24	4/12/1995	USGS 1995	X			
CAFB-FAC1400-04	17-19	4/12/1995	USGS 1995	X			
CAFB-FAC1400-04	20-22	4/12/1995	USGS 1995	X			
CAFB-FAC1400-05	10	4/14/1995	USGS 1995			X	Field screening only, result was nondetect
CAFB-FAC1400-06	9.5-11.5	4/14/1995	USGS 1995			X	Field screening only, result was nondetect
CAFB-FAC1400-06	20-22	4/14/1995	USGS 1995	X			
July 1995							
CAFB-FAC1400-07	19-20	7/2/1995	USGS 1995	X			
August 1995							
CAFB-FAC1400-03	36-37	8/28/1995	USGS 1995	X			Duplicate
CAFB-FAC1400-03	49.5-50.5	8/28/1995	USGS 1995	X			
CAFB-FAC1400-03	65-66	8/28/1995	USGS 1995	X			
CAFB-FAC1400-08	25-26	8/26/1995	USGS 1995	X			
CAFB-FAC1400-09	25-26	8/27/1995	USGS 1995	X			
December 1995							
CAFB-FAC1400-03	75	12/14/1995	USGS 1995	X			
CAFB-FAC1400-03	83	12/14/1995	USGS 1995	X			
CAFB-FAC1400-03	91-92	12/14/1995	USGS 1995	X			
CAFB-FAC1400-10	23-25	12/12/1995	USGS 1995	X			
CAFB-FAC1400-11	22-24	12/12/1995	USGS 1995	X			
CAFB-FAC1400-12	24-26	12/12/1995	USGS 1995	X			
			Totals	**19**	**7**	**3**	

Sources:
Keers Technical Services. 1994a. Subsurface Investigation 25,000 Gallon UST Cannon AFB.
Keers Technical Services. 1994b. Limited Subsurface Investigation for the Evaluation of Suspected Subsurface Contamination at Cannon AFB, Curry County, New Mexico.
United States Geological Survey. 1995. Investigation of Eight Underground Storage Tank Facilities on Cannon Air Force Base and Melrose Bombing Range, New Mexico.

Notes:
bgs = below ground surface
DRO = diesel range organics
EPA = Environmental Protection Agency
GC = gas chromatograph
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
USGS = United States Geological Survey
X = sample collected

TABLE 2-5b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C504

FIELD ID			NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	94600-081794-01			94600-081794-02			94600-081794-03			94600-092294-02	
SAMPLE DEPTH (feet bgs)				14			14			14			18-20	
DATE COLLECTED				August 17, 1994			August 17, 1994			August 17, 1994			September 22, 1994	
	Maximum	Frequency		Result	RL	Qual	Result	RL	Qual	Result	RL	Qual	Result	RL
TRPH (mg/kg)	8.20E+03	3/7	1.00E+03	**2.80E+03**	2.00E+01		6.40E+02	2.00E+01		<	2.00E+01	U	**8.20E+03**	2.00E+01
TPH-DRO (mg/kg)	1.10E+04	14/19	1.00E+03	NA			NA			NA			NA	

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect

TABLE 2-5b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C504

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	Qual	94600-092294-04 18-20 September 22, 1994 Result	RL	Qual	94600-092294-06 18-20 September 22, 1994 Result	RL	Qual	94600-092294-08 18-20 September 22, 1994 Result	RL	Qual
TRPH (mg/kg)	8.20E+03	3/7	1.00E+03		<	2.00E+01	U	<	2.00E+01	U	<	2.00E+01	U
TPH-DRO (mg/kg)	1.10E+04	14/19	1.00E+03		NA			NA			NA		

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect

TABLE 2-5b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C504

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC1400-01 16-18 April 12, 1995			CAFB-FAC1400-02 18-20 April 12, 1995			CAFB-FAC1400-03 18-20 April 12, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TRPH (mg/kg)	8.20E+03	3/7	1.00E+03	NA			NA			NA		
TPH-DRO (mg/kg)	1.10E+04	14/19	1.00E+03	5.10E+01	8.00E+00	Q	**6.20E+03**	4.00E+02		**9.90E+03**	4.00E+02	

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect

TABLE 2-5b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C504

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC1400-03 22-24 April 12, 1995			CAFB-FAC1400-03 36-37 August 28, 1995			CAFB-FAC1400-03 49.5-50.5 August 28, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TRPH (mg/kg)	8.20E+03	3/7	1.00E+03	NA			NA			NA		
TPH-DRO (mg/kg)	1.10E+04	14/19	1.00E+03	3.70E+02	8.00E+00		**8.00E+03**	4.00E+02		**1.10E+04**	4.00E+02	

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect

TABLE 2-5b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C504

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC1400-03 65-66 August 28, 1995			CAFB-FAC1400-03 75 December 14, 1995			CAFB-FAC1400-03 83 December 14, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TRPH (mg/kg)	8.20E+03	3/7	1.00E+03	NA			NA			NA		
TPH-DRO (mg/kg)	1.10E+04	14/19	1.00E+03	**5.80E+03**	4.00E+02		**9.30E+03**	4.00E+02		<	4.00E+00	U

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect

TABLE 2-5b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C504

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC1400-03 91-92 December 14, 1995			CAFB-FAC1400-04 17-19 April 12, 1995			CAFB-FAC1400-04 20-22 April 12, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TRPH (mg/kg)	8.20E+03	3/7	1.00E+03	NA			NA			NA		
TPH-DRO (mg/kg)	1.10E+04	14/19	1.00E+03	<	1.00E-01	U	1.60E+01	4.00E+00	Q	**2.50E+03**	8.00E+01	

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect

TABLE 2-5b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C504

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC1400-06 20-22 April 14, 1995			CAFB-FAC1400-07 19-20 July 2, 1995			CAFB-FAC1400-08 25-26 August 26, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TRPH (mg/kg)	8.20E+03	3/7	1.00E+03	NA			NA			NA		
TPH-DRO (mg/kg)	1.10E+04	14/19	1.00E+03	5.20E+00	4.00E+00	Q	2.00E+01	4.00E+00	Q	<	4.00E+00	U

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect

TABLE 2-5b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C504

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC1400-09 25-26 August 27, 1995			CAFB-FAC1400-10 23-25 December 12, 1995			CAFB-FAC1400-11 22-24 December 12, 1995		
				Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
TRPH (mg/kg)	8.20E+03	3/7	1.00E+03	NA			NA			NA		
TPH-DRO (mg/kg)	1.10E+04	14/19	1.00E+03	8.90E+02	1.60E+01	Q	<	4.00E+00	U	<	4.00E+00	U

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect

TABLE 2-5b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C504

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	CAFB-FAC1400-12 24-26 December 12, 1995 Result	RL	Qual
TRPH (mg/kg)	8.20E+03	3/7	1.00E+03	NA		
TPH-DRO (mg/kg)	1.10E+04	14/19	1.00E+03	1.60E+01	4.00E+00	Q

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
NA = not analyzed
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not be achieved
Qual = qualifier
RL = reporting limit
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
U = nondetect

TABLE 2-6a
SUMMARY OF PREVIOUS SAMPLES FOR CHEMICAL ANALYSIS
ST-C505

Sample Location/ Identification	Depth Interval (feet bgs)	Sample Date	Source	BTEX (EPA 8020)	TRPH (EPA 418.1)	TPH-DRO (EPA 8015)	Field Analysis (GC)	Note(s)
December 1994								
3060A NE Corner	11	12/15/1994	CAFB 1994	X	X			
3060A SE Corner	11	12/15/1994	CAFB 1994	X	X			
3060A SW Corner	11	12/15/1994	CAFB 1994	X	X			
3060A NW Corner	11	12/15/1994	CAFB 1994	X	X			
3060B NE Corner	11	12/15/1994	CAFB 1994	X	X			
3060B NW Corner	11	12/15/1994	CAFB 1994	X	X			
3060B SE Corner	11	12/15/1994	CAFB 1994	X	X			
3060B SW Corner	11	12/15/1994	CAFB 1994	X	X			
Blg 3060 B East	*	12/28/1994	CAFB 1994	X	X			
Blg 3060 B West	*	12/28/1994	CAFB 1994	X	X			
April 1995								
CAFB-FAC3060-01	9-11	4/11/1995	USGS 1995				X	Field screening only, result was nondetect
CAFB-FAC3060-02	9-11	4/11/1995	USGS 1995			X		
CAFB-FAC3060-02	14-16	4/11/1995	USGS 1995			X		
CAFB-FAC3060-03	9-11	4/11/1995	USGS 1995			X		
CAFB-FAC3060-03	14-16	4/11/1995	USGS 1995			X		
CAFB-FAC3060-04	9-11	4/11/1995	USGS 1995			X		
CAFB-FAC3060-05	9-11	4/11/1995	USGS 1995			X		
CAFB-FAC3060-06	9-11	4/11/1995	USGS 1995			X		
CAFB-FAC3060-07	9-10	4/11/1995	USGS 1995				X	Field screening only, result was nondetect
June 1995								
CAFB-FAC3060-08	10-12	6/28/1995	USGS 1995			X		
CAFB-FAC3060-09	9-11	6/28/1995	USGS 1995			X		
CAFB-FAC3060-10	11-13	6/28/1995	USGS 1995			X		
CAFB-FAC3060-11	10-12	6/28/1995	USGS 1995			X		
July 1995								
CAFB-FAC3060-03	24	7/25/1995	USGS 1995			X		
August 1995								
CAFB-FAC3060-12	12-14	8/23/1995	USGS 1995			X		
CAFB-FAC3060-13	11-13	8/23/1995	USGS 1995			X		Duplicate
			Totals	**10**	**10**	**14**	**2**	

Sources:

United States Geological Survey. 1995. Investigation of Eight Underground Storage Tank Facilities on Cannon Air Force Base and Melrose Bombing Range, New Mexico.

Cannon Air Force Base. 1994. 7-Day Written Notification for a Petroleum Release at Facility 3060.

Notes:

*Exact depth of these samples is unknown, estimated depth is 11 feet bgs based on tank depth and previous sampling depths.

bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
CAFB = Cannon Air Force Base
DRO = diesel range organics
EPA = Environmental Protection Agency
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbons
USGS = United States Geological Survey
X = sample collected

TABLE 2-6b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C505

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	3060A NE Corner 11 December 15, 1994			3060A SE Corner 11 December 15, 1994			3060A SW Corner 11 December 15, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
Benzene	ND	0/10	NE	1.54E+01	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
Toluene	3.40E-02	3/10	NE	5.27E+03	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
Ethylbenzene	7.40E-02	4/10	NE	6.84E+01	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
m-Xylene	3.10E-02	5/10	NE	7.74E+02	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
o-Xylene	5.20E-02	7/10	NE	8.98E+02	<	1.00E-03	U	9.00E-03	1.00E-03		<	1.00E-03	U
p-Xylene	1.70E-02	1/10	NE	NE	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
Total Xylenes	9.00E-02	7/10	NE	8.14E+02	<	1.00E-03	U	9.00E-03	1.00E-03		<	1.00E-03	U
MTBE	ND	0/10	NE	9.01E+02	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
TRPH (mg/kg)	1.78E+03	10/10	1.00E+03	NE	1.59E+01	unknown		1.08E+01	unknown		1.96E+01	unknown	
TPH-DRO (mg/kg)	5.30E+03	12/14	1.00E+03	NE	NA			NA			NA		

Notes:
*Approximately 11 feet bgs
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
MTBE = methyl tertiary butyl ether
NA = not analyzed
ND = not detected
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not beachieved
Qual = qualifier
RL = reporting limit
SSL = soil screening levels
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbon
U = nondetect

TABLE 2-6b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C505

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	3060A NW Corner 11 December 15, 1994			3060B NE Corner 11 December 15, 1994			3060B NW Corner 11 December 15, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
Benzene	ND	0/10	NE	1.54E+01	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
Toluene	3.40E-02	3/10	NE	5.27E+03	<	1.00E-03	U	3.40E-02	1.00E-03		1.10E-02	1.00E-03	
Ethylbenzene	7.40E-02	4/10	NE	6.84E+01	<	1.00E-03	U	4.00E-02	1.00E-03		7.40E-02	1.00E-03	
m-Xylene	3.10E-02	5/10	NE	7.74E+02	<	1.00E-03	U	1.70E-02	1.00E-03		2.20E-02	1.00E-03	
o-Xylene	5.20E-02	7/10	NE	8.98E+02	<	1.00E-03	U	2.60E-02	1.00E-03		5.20E-02	1.00E-03	
p-Xylene	1.70E-02	1/10	NE	NE	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
Total Xylenes	9.00E-02	7/10	NE	8.14E+02	<	1.00E-03	U	4.30E-02	1.00E-03		7.40E-02	1.00E-03	
MTBE	ND	0/10	NE	9.01E+02	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
TRPH (mg/kg)	1.78E+03	10/10	1.00E+03	NE	6.30E+00	unknown		3.08E+02	unknown		**1.78E+03**	unknown	
TPH-DRO (mg/kg)	5.30E+03	12/14	1.00E+03	NE	NA			NA			NA		

Notes:
*Approximately 11 feet bgs
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
MTBE = methyl tertiary butyl ether
NA = not analyzed
ND = not detected
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not beachieved
Qual = qualifier
RL = reporting limit
SSL = soil screening levels
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbon
U = nondetect

TABLE 2-6b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C505

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	3060B SE Corner 11 December 15, 1994			3060B SW Corner 11 December 15, 1994			Blg 3060 B East * December 28, 1994		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
Benzene	ND	0/10	NE	1.54E+01	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
Toluene	3.40E-02	3/10	NE	5.27E+03	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
Ethylbenzene	7.40E-02	4/10	NE	6.84E+01	1.10E-02	1.00E-03		<	1.00E-03	U	<	1.00E-03	U
m-Xylene	3.10E-02	5/10	NE	7.74E+02	5.00E-03	1.00E-03		3.00E-03	1.00E-03		<	1.00E-03	U
o-Xylene	5.20E-02	7/10	NE	8.98E+02	1.80E-02	1.00E-03		1.10E-02	1.00E-03		2.80E-02	1.00E-03	
p-Xylene	1.70E-02	1/10	NE	NE	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
Total Xylenes	9.00E-02	7/10	NE	8.14E+02	2.30E-02	1.00E-03		1.40E-02	1.00E-03		2.80E-02	1.00E-03	
MTBE	ND	0/10	NE	9.01E+02	<	1.00E-03	U	<	1.00E-03	U	<	1.00E-03	U
TRPH (mg/kg)	1.78E+03	10/10	1.00E+03	NE	2.31E+02	unknown		1.19E+02	unknown		1.07E+02	unknown	
TPH-DRO (mg/kg)	5.30E+03	12/14	1.00E+03	NE	NA			NA			NA		

Notes:
*Approximately 11 feet bgs
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
MTBE = methyl tertiary butyl ether
NA = not analyzed
ND = not detected
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not beachieved
Qual = qualifier
RL = reporting limit
SSL = soil screening levels
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbon
U = nondetect

TABLE 2-6b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C505

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	Blg 3060 B West * December 28, 1994			CAFB-FAC3060-02 9-11 April 11, 1995			CAFB-FAC3060-02 14-16 April 11, 1995		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
Benzene	ND	0/10	NE	1.54E+01	<	1.00E-03	U	NA			NA		
Toluene	3.40E-02	3/10	NE	5.27E+03	2.90E-02	1.00E-03		NA			NA		
Ethylbenzene	7.40E-02	4/10	NE	6.84E+01	4.50E-02	1.00E-03		NA			NA		
m-Xylene	3.10E-02	5/10	NE	7.74E+02	3.10E-02	1.00E-03		NA			NA		
o-Xylene	5.20E-02	7/10	NE	8.98E+02	4.20E-02	1.00E-03		NA			NA		
p-Xylene	1.70E-02	1/10	NE	NE	1.70E-02	1.00E-03		NA			NA		
Total Xylenes	9.00E-02	7/10	NE	8.14E+02	9.00E-02	1.00E-03		NA			NA		
MTBE	ND	0/10	NE	9.01E+02	<	1.00E-03	U	NA			NA		
TRPH (mg/kg)	1.78E+03	10/10	1.00E+03	NE	**1.03E+03**	unknown		NA			NA		
TPH-DRO (mg/kg)	5.30E+03	12/14	1.00E+03	NE	NA			**1.30E+03**	4.00E+01		8.70E+00	4.00E+00	Q

Notes:
*Approximately 11 feet bgs
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
MTBE = methyl tertiary butyl ether
NA = not analyzed
ND = not detected
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not beachieved
Qual = qualifier
RL = reporting limit
SSL = soil screening levels
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbon
U = nondetect

TABLE 2-6b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C505

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	CAFB-FAC3060-03 9-11 April 11, 1995			CAFB-FAC3060-03 14-16 April 11, 1995			CAFB-FAC3060-03 24 July 25, 1995		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
Benzene	ND	0/10	NE	1.54E+01	NA			NA			NA		
Toluene	3.40E-02	3/10	NE	5.27E+03	NA			NA			NA		
Ethylbenzene	7.40E-02	4/10	NE	6.84E+01	NA			NA			NA		
m-Xylene	3.10E-02	5/10	NE	7.74E+02	NA			NA			NA		
o-Xylene	5.20E-02	7/10	NE	8.98E+02	NA			NA			NA		
p-Xylene	1.70E-02	1/10	NE	NE	NA			NA			NA		
Total Xylenes	9.00E-02	7/10	NE	8.14E+02	NA			NA			NA		
MTBE	ND	0/10	NE	9.01E+02	NA			NA			NA		
TRPH (mg/kg)	1.78E+03	10/10	1.00E+03	NE	NA			NA			NA		
TPH-DRO (mg/kg)	5.30E+03	12/14	1.00E+03	NE	**5.30E+03**	4.00E+02		2.30E+01	4.00E+00		7.80E+01	4.00E+00	

Notes:
*Approximately 11 feet bgs
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
MTBE = methyl tertiary butyl ether
NA = not analyzed
ND = not detected
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not beachieved
Qual = qualifier
RL = reporting limit
SSL = soil screening levels
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbon
U = nondetect

TABLE 2-6b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C505

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	CAFB-FAC3060-04 9-11 April 11, 1995			CAFB-FAC3060-05 9-11 April 11, 1995			CAFB-FAC3060-06 9-11 April 11, 1995		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
Benzene	ND	0/10	NE	1.54E+01	NA			NA			NA		
Toluene	3.40E-02	3/10	NE	5.27E+03	NA			NA			NA		
Ethylbenzene	7.40E-02	4/10	NE	6.84E+01	NA			NA			NA		
m-Xylene	3.10E-02	5/10	NE	7.74E+02	NA			NA			NA		
o-Xylene	5.20E-02	7/10	NE	8.98E+02	NA			NA			NA		
p-Xylene	1.70E-02	1/10	NE	NE	NA			NA			NA		
Total Xylenes	9.00E-02	7/10	NE	8.14E+02	NA			NA			NA		
MTBE	ND	0/10	NE	9.01E+02	NA			NA			NA		
TRPH (mg/kg)	1.78E+03	10/10	1.00E+03	NE	NA			NA			NA		
TPH-DRO (mg/kg)	5.30E+03	12/14	1.00E+03	NE	4.30E+00	4.00E+00	Q	3.20E+00	4.00E+00	J	3.70E+01	4.00E+00	

Notes:
*Approximately 11 feet bgs
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
MTBE = methyl tertiary butyl ether
NA = not analyzed
ND = not detected
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not beachieved
Qual = qualifier
RL = reporting limit
SSL = soil screening levels
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbon
U = nondetect

TABLE 2-6b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C505

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	CAFB-FAC3060-08 10-12 June 28, 1995			CAFB-FAC3060-09 9-11 June 28, 1995			CAFB-FAC3060-10 11-13 June 28, 1995		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
Benzene	ND	0/10	NE	1.54E+01	NA			NA			NA		
Toluene	3.40E-02	3/10	NE	5.27E+03	NA			NA			NA		
Ethylbenzene	7.40E-02	4/10	NE	6.84E+01	NA			NA			NA		
m-Xylene	3.10E-02	5/10	NE	7.74E+02	NA			NA			NA		
o-Xylene	5.20E-02	7/10	NE	8.98E+02	NA			NA			NA		
p-Xylene	1.70E-02	1/10	NE	NE	NA			NA			NA		
Total Xylenes	9.00E-02	7/10	NE	8.14E+02	NA			NA			NA		
MTBE	ND	0/10	NE	9.01E+02	NA			NA			NA		
TRPH (mg/kg)	1.78E+03	10/10	1.00E+03	NE	NA			NA			NA		
TPH-DRO (mg/kg)	5.30E+03	12/14	1.00E+03	NE	1.50E+01	4.00E+00	Q	4.00E+01	4.00E+00	Q	1.60E+02	4.00E+00	Q

Notes:
*Approximately 11 feet bgs
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
MTBE = methyl tertiary butyl ether
NA = not analyzed
ND = not detected
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not beachieved
Qual = qualifier
RL = reporting limit
SSL = soil screening levels
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbon
U = nondetect

TABLE 2-6b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
ST-C505

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	CAFB-FAC3060-11 10-12 June 28, 1995			CAFB-FAC3060-12 12-14 August 23, 1995			CAFB-FAC3060-13 11-13 August 23, 1995		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
Benzene	ND	0/10	NE	1.54E+01	NA			NA			NA		
Toluene	3.40E-02	3/10	NE	5.27E+03	NA			NA			NA		
Ethylbenzene	7.40E-02	4/10	NE	6.84E+01	NA			NA			NA		
m-Xylene	3.10E-02	5/10	NE	7.74E+02	NA			NA			NA		
o-Xylene	5.20E-02	7/10	NE	8.98E+02	NA			NA			NA		
p-Xylene	1.70E-02	1/10	NE	NE	NA			NA			NA		
Total Xylenes	9.00E-02	7/10	NE	8.14E+02	NA			NA			NA		
MTBE	ND	0/10	NE	9.01E+02	NA			NA			NA		
TRPH (mg/kg)	1.78E+03	10/10	1.00E+03	NE	NA			NA			NA		
TPH-DRO (mg/kg)	5.30E+03	12/14	1.00E+03	NE	2.20E+01	4.00E+00	Q	<	4.00E+00	U	<	4.00E+00	U

Notes:
*Approximately 11 feet bgs
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
Results that exceed the corresponding screening guideline appear in boldface and are underlined.

< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
FID = flame ionization detector
GC = gas chromatograph
ID = identification
J = estimated or below reporting limit
mg/kg = milligrams per kilogram
MTBE = methyl tertiary butyl ether
NA = not analyzed
ND = not detected
NE = none established
NMED = New Mexico Environment Department
Q = this sample has GC/FID characteristics for which reliable identification of a product could not beachieved
Qual = qualifier
RL = reporting limit
SSL = soil screening levels
TPH = total petroleum hydrocarbons
TRPH = total recoverable petroleum hydrocarbon
U = nondetect

TABLE 2-7a
SUMMARY OF PREVIOUS SAMPLES FOR CHEMICAL ANALYSIS
SS-C507

Sample Location/ Identification	Depth Interval (feet bgs)	Sample Date	Source	BTEX (EPA 8260)	PCBs (EPA 8082)	TPH-DRO (EPA 8015)	Note(s)
June 2009							
C507-100	1-3	6/23/2009	URS 2009	X	X	X	MS/MSD, PID reading = 0.0 ppm
C507-101	1-3	6/25/2009	URS 2009	X	X	X	PID reading = 0.0 ppm
C507-102	1-3	6/23/2009	URS 2009	X	X	X	PID reading = 0.0 ppm
C507-103	1-3	6/25/2009	URS 2009	X	X	X	PID reading = 0.0 ppm
C507-104	1-3	6/25/2009	URS 2009	X	X	X	PID reading = 0.0 ppm
C507-105	1-3	6/25/2009	URS 2009	X	X	X	Duplicate, PID reading = 0.0 ppm
C507-106	1-3	6/25/2009	URS 2009	X	X	X	PID reading = 0.0 ppm
C501-107	1-3	6/25/2009	URS 2009	X	X	X	PID reading = 0.0 ppm
			Totals	**8**	**8**	**8**	

Source:

URS Group, Inc. 2009. Final Evaluation Report. Cannon Air Force Base. Air Force Compliance Clean-up Sites, Identification and Evaluation of DERA Eligibility for AFCEE, Multiple Locations, Prepared for the United States Army Corps of Engineers, Tulsa District.

Notes:

bgs = below ground surface

BTEX = benzene, toluene, ethylbenzene and total xylenes

DRO = diesel range organics

EPA = Environmental Protection Agency

MS/MSD = matrix spike/matrix spike duplicate

PCB = polychlorinated biphenyl

PID = photoionization detector

ppm = parts per million

TPH = total petroleum hydrocarbons

URS = URS Group, Inc.

X = sample collected

TABLE 2-7b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
SS-C507

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	C507-100 1-3 June 23, 2009			C507-101 1-3 June 25, 2009			C507-102 1-3 June 23, 2009		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
All BTEX compounds were nondetect	ND	0/8											
PCBs (mg/kg)													
PCB 1016	ND	0/8	NE	3.93E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1221	ND	0/8	NE	1.49E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1232	ND	0/8	NE	1.49E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1242	ND	0/8	NE	2.22E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1248	ND	0/8	NE	2.22E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1254	ND	0/8	NE	1.12E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1260	2.80E-02 F	1/8	NE	2.22E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
TPH-DRO (mg/kg)	7.10E+00 F	3/8	1.00E+03	NE	6.30E+00	1.10E+01	F	<	1.10E+01	U	5.80E+00	1.20E+01	F

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
F = result between MDL and RL
ID = identification
MDL = method detection limit
mg/kg = milligrams per kilogram
ND = not detected
NMED = New Mexico Environment Department
PCB = polychlorinated biphenyls
Qual = qualifier
RL = reporting limit
SSL = Soil Screening Level
TPH = total petroleum hydrocarbon
U = nondetect

TABLE 2-7b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
SS-C507

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	C507-103 1-3 June 25, 2009			C507-104 1-3 June 25, 2009			C507-105 1-3 June 25, 2009		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
All BTEX compounds were nondetect	ND	0/8											
PCBs (mg/kg)													
PCB 1016	ND	0/8	NE	3.93E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1221	ND	0/8	NE	1.49E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1232	ND	0/8	NE	1.49E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1242	ND	0/8	NE	2.22E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1248	ND	0/8	NE	2.22E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1254	ND	0/8	NE	1.12E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
PCB 1260	2.80E-02 F	1/8	NE	2.22E+00	<	5.00E-02	U	<	5.00E-02	U	<	5.00E-02	U
TPH-DRO (mg/kg)	7.10E+00 F	3/8	1.00E+03	NE	<	1.20E+01	U	7.10E+00	1.20E+01	F	<	1.20E+01	U

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
F = result between MDL and RL
ID = identification
MDL = method detection limit
mg/kg = milligrams per kilogram
ND = not detected
NMED = New Mexico Environment Department
PCB = polychlorinated biphenyls
Qual = qualifier
RL = reporting limit
SSL = Soil Screening Level
TPH = total petroleum hydrocarbon
U = nondetect

TABLE 2-7b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
SS-C507

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	C507-106 1-3 June 25, 2009			C507-107 1-3 June 25, 2009		
					Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)										
All BTEX compounds were nondetect	ND	0/8								
PCBs (mg/kg)										
PCB 1016	ND	0/8	NE	3.93E+00	2.80E-02	5.00E-02	F	<	5.00E-02	U
PCB 1221	ND	0/8	NE	1.49E+00	2.80E-02	5.00E-02	F	<	5.00E-02	U
PCB 1232	ND	0/8	NE	1.49E+00	2.80E-02	5.00E-02	F	<	5.00E-02	U
PCB 1242	ND	0/8	NE	2.22E+00	2.80E-02	5.00E-02	F	<	5.00E-02	U
PCB 1248	ND	0/8	NE	2.22E+00	2.80E-02	5.00E-02	F	<	5.00E-02	U
PCB 1254	ND	0/8	NE	1.12E+00	2.80E-02	5.00E-02	F	<	5.00E-02	U
PCB 1260	2.80E-02 F	1/8	NE	2.22E+00	2.80E-02	5.00E-02	F	<	5.00E-02	U
TPH-DRO (mg/kg)	7.10E+00 F	3/8	1.00E+03	NE	<	1.10E+01	U	<	1.20E+01	U

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
F = result between MDL and RL
ID = identification
MDL = method detection limit
mg/kg = milligrams per kilogram
ND = not detected
NMED = New Mexico Environment Department
PCB = polychlorinated biphenyls
Qual = qualifier
RL = reporting limit
SSL = Soil Screening Level
TPH = total petroleum hydrocarbon
U = nondetect

TABLE 2-8a
SUMMARY OF PREVIOUS SAMPLES FOR CHEMICAL ANALYSIS
SD-C508

Sample Location/ Identification	Depth Interval (feet bgs)	Sample Date	Source	BTEX (EPA 8260)	PCBs (EPA 8082)	TPH-DRO (EPA 8015)	RCRA Metals (EPA 6010B/7470A/7471A)	Note(s)
June 2009								
C508-100	0-1	6/23/2009	URS 2009	X	X	X	X	PID reading = 0.0 ppm
C508-100	1-3	6/23/2009	URS 2009	X	X	X	X	PID reading = 0.0 ppm
C508-101	0-1	6/23/2009	URS 2009	X	X	X	X	MS/MSD, PID reading = 0.0 ppm
C508-101	1-3	6/23/2009	URS 2009	X	X	X	X	PID reading = 0.0 ppm
C508-102	0-1	6/23/2009	URS 2009	X	X	X	X	PID reading = 0.0 ppm
C508-102	1-3	6/23/2009	URS 2009	X	X	X	X	Duplicate, MS/MSD, PID reading = 0.0 ppm
			Totals	**6**	**6**	**6**	**6**	

Source:

URS Group, Inc. 2009. Final Evaluation Report. Cannon Air Force Base. Air Force Compliance Clean-up Sites, Identification and Evaluation of DERA Eligibility for AFCEE, Multiple Locations, Prepared for the United States Army Corps of Engineers, Tulsa District.

Notes:

bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
EPA = Environmental Protection Agency
MS/MSD = matrix spike/matrix spike duplicate
NA = not applicable
PCB = polychlorinated biphenyl
PID = photoionization detector
ppm = parts per million
RCRA = Resource Conservation and Recovery Act
TPH = total petroleum hydrocarbons
URS = URS Group, Inc.
X = sample collected

TABLE 2-8b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
SD-C508

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	C508-100 0-1 June 23, 2009			C508-100 1-3 June 23, 2009			C508-101 0-1 June 23, 2009		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
All BTEX compounds were nondetect	ND	0/6											
PCBs (mg/kg)													
All PCBs were nondetect	ND	0/6											
RCRA METALS (mg/kg)													
Arsenic	3.30E+00	6/6	NE	3.90E+00	2.60E+00	2.80E-01		2.40E+00	3.00E-01		2.50E+00	2.80E-01	
Barium	3.07E+02	6/6	NE	1.56E+04	3.07E+02	5.70E-02		1.18E+02	6.50E-02		1.14E+02	5.80E-02	
Cadmium	2.00E+00	5/6	NE	7.03E+01	4.50E-01	1.40E-02		1.50E-01	1.50E-02		3.30E-01	1.40E-02	
Chromium	1.08E+01	6/6	NE	1.17E+05	6.70E+00	4.40E-02		9.30E+00	5.00E-02		9.30E+00	4.50E-02	
Lead	2.80E+01	6/6	NE	4.00E+02	1.66E+01	1.10E-01		1.52E+01	1.10E-01		1.71E+01	1.10E-01	
Mercury	2.70E-02	6/6	NE	1.56E+01	1.60E-02	3.80E-03		1.90E-02	3.80E-03		2.70E-02	3.80E-03	
Selenium	ND	0/6	NE	3.91E+02	<	2.40E-01	U	<	2.70E-01	U	<	3.60E-01	U
Silver	1.00E+00	4/6	NE	3.91E+02	6.10E-01	7.40E-02		3.70E-01	8.40E-02		1.00E+00	7.60E-02	
TPH-DRO (mg/kg)	1.20E+02	4/6	1.00E+03	NE	1.20E+02	2.10E+01		5.50E+00	1.10E+01	F	4.50E+01	2.10E+01	

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)

< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
F = result between MDL and RL
ID = identification
J = estimated
MDL = method detection limit
mg/kg = milligrams per kilogram
NA = not available
ND = not detected
NE = not established
NMED = New Mexico Environment Department
PCB = polychlorinated biphenyl
Qual = qualifier
RCRA = Resource Conservation and Recovery Act
RL = reporting limit
SSL = Soil Screening Level
TPH = total petroleum hydrocarbons
U = nondetect

TABLE 2-8b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
SD-C508

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	C508-101 1-3 June 23, 2009			C508-102 0-1 June 23, 2009			C508-102 1-3 June 23, 2009		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
BTEX (mg/kg)													
All BTEX compounds were nondetect	ND	0/6											
PCBs (mg/kg)													
All PCBs were nondetect	ND	0/6											
RCRA METALS (mg/kg)													
Arsenic	3.30E+00	6/6	NE	3.90E+00	2.50E+00	3.00E-01		3.30E+00	2.80E-01		2.40E+00	2.90E-01	
Barium	3.07E+02	6/6	NE	1.56E+04	6.27E+01	6.30E-02		1.14E+02	5.80E-02		7.43E+01	6.20E-02	
Cadmium	2.00E+00	5/6	NE	7.03E+01	<	1.50E-02	U	2.00E+00	1.40E-02		9.30E-02	1.50E-02	
Chromium	1.08E+01	6/6	NE	1.17E+05	8.90E+00	4.80E-02		1.08E+01	4.40E-02		8.00E+00	4.70E-02	
Lead	2.80E+01	6/6	NE	4.00E+02	1.30E+01	1.10E-01		2.80E+01	1.10E-01		1.49E+01	1.10E-01	
Mercury	2.70E-02	6/6	NE	1.56E+01	1.20E-02	3.80E-03		1.40E-02	3.80E-03		9.80E-03	3.80E-03	
Selenium	ND	0/6	NE	3.91E+02	<	2.60E-01	U	<	2.40E-01	U	<	2.50E-01	U
Silver	1.00E+00	4/6	NE	3.91E+02	<	8.10E-02	U	2.70E-01	7.50E-02		<	8.00E-02	U
TPH-DRO (mg/kg)	1.20E+02	4/6	1.00E+03	NE	<	1.10E+01	U	5.70E+01	2.10E+01		<	1.10E+01	U

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)

< = not detected
bgs = below ground surface
BTEX = benzene, toluene, ethylbenzene and total xylenes
DRO = diesel range organics
F = result between MDL and RL
ID = identification
J = estimated
MDL = method detection limit
mg/kg = milligrams per kilogram
NA = not available
ND = not detected
NE = not established
NMED = New Mexico Environment Department
PCB = polychlorinated biphenyl
Qual = qualifier
RCRA = Resource Conservation and Recovery Act
RL = reporting limit
SSL = Soil Screening Level
TPH = total petroleum hydrocarbons
U = nondetect

TABLE 2-9a
SUMMARY OF PREVIOUS SAMPLES FOR CHEMICAL ANALYSIS
TA/AS-C129 (SWMU129)

Sample Location/ Identification	Depth Interval	Sample Date	Source	PCBs (EPA 8082)	Pesticides (EPA 8081A)	TPH (EPA 418.1)	RCRA Metals (EPA 6010B/7470A/7471A)	Note(s)
December 1999								
244SS001	surface of excavation	12/14/1999	Parallax 2000	X	X	X	X	
244SS002	surface of excavation	12/14/1999	Parallax 2000	X	X	X	X	
244SS003	surface of excavation	12/14/1999	Parallax 2000	X	X	X	X	
244SS004	surface of excavation	12/14/1999	Parallax 2000	X	X	X	X	MS/MSD, Field Duplicate
244SS005	surface of excavation	12/14/1999	Parallax 2000	X	X	X	X	
244SS006	4 feet bgs	12/14/1999	Parallax 2000	X	X	X	X	
244SS007	2.5 feet bgs	12/14/1999	Parallax 2000	X	X	X	X	
244SS008	3.5 feet bgs	12/14/1999	Parallax 2000	X	X	X	X	
			Totals	**8**	**8**	**8**	**8**	

Source:

Parallax, Inc. 2000. Closeout Report/Contamination Assessment, SWMU 129-Facility 244, Aboveground Tank Storage Area, Cannon Air Force Base, Clovis, New Mexico, Final. July.

Notes:

bgs = below ground surface

EPA = Environmental Protection Agency

MS/MSD = matrix spike/matrix spike duplicate

PCB = polychlorinated biphenyl

RCRA = Resource Conservation and Recovery Act

TPH = total petroleum hydrocarbons

SWMU = Solid Waste Management Unit

X = sample collected

TABLE 2-9b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
TA/AS-C129 (SWMU129)

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	244SS01 surface of excavation December 14, 1999			244SS02 surface of excavation December 14, 1999			244SS03 surface of excavation December 14, 1999		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
ORGANOCHLORINE PESTICIDES (mg/kg)													
All pesticides were nondetect	ND	0/8											
PCBs (mg/kg)													
All PCBs were nondetect	ND	0/8											
RCRA METALS (mg/kg)													
Arsenic	1.20E+01	8/8	NE	3.90E+00	7.80E+00	unknown		7.00E+00	unknown		1.20E+01	unknown	
Barium	3.80E+02	8/8	NE	1.56E+04	7.90E+01	unknown		4.60E+01	unknown		1.30E+02	unknown	
Cadmium	1.80E+00	8/8	NE	7.03E+01	1.20E+00	unknown		8.50E-01	unknown		1.60E+00	unknown	
Chromium	9.60E+00	6/8	NE	1.17E+05	7.70E+00	unknown		<	5.50E+00	U	9.60E+00	unknown	
Lead	1.30E+01	8/8	NE	4.00E+02	7.30E+00	unknown		5.90E+00	unknown		1.00E+01	unknown	
Mercury	ND	0/8	NE	1.56E+01	<	5.80E-01	U	<	5.50E-01	U	<	5.90E-01	U
Selenium	2.00E+01	2/8	NE	3.91E+02	<	5.80E+00	U	<	5.50E+00	U	<	5.90E+00	U
TPH (mg/kg)	3.00E+02	3/8	1.00E+03	NE	<	1.00E+01	U	<	1.00E+01	U	<	1.00E+01	U

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
< = not detected
bgs = below ground surface
ID = identification
mg/kg = milligrams per kilogram
NA = not available
ND = not detected
NE = not established
NMED = New Mexico Environment Department
PCB = polychlorinated biphenyl
Qual = qualifier
RCRA = Resource Conservation and Recovery Act
RL = reporting limit
SSL = Soil Screening Level
SVOC = semivolatile organic compound
TPH = total petroleum hydrocarbons
U = nondetect

TABLE 2-9b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
TA/AS-C129 (SWMU129)

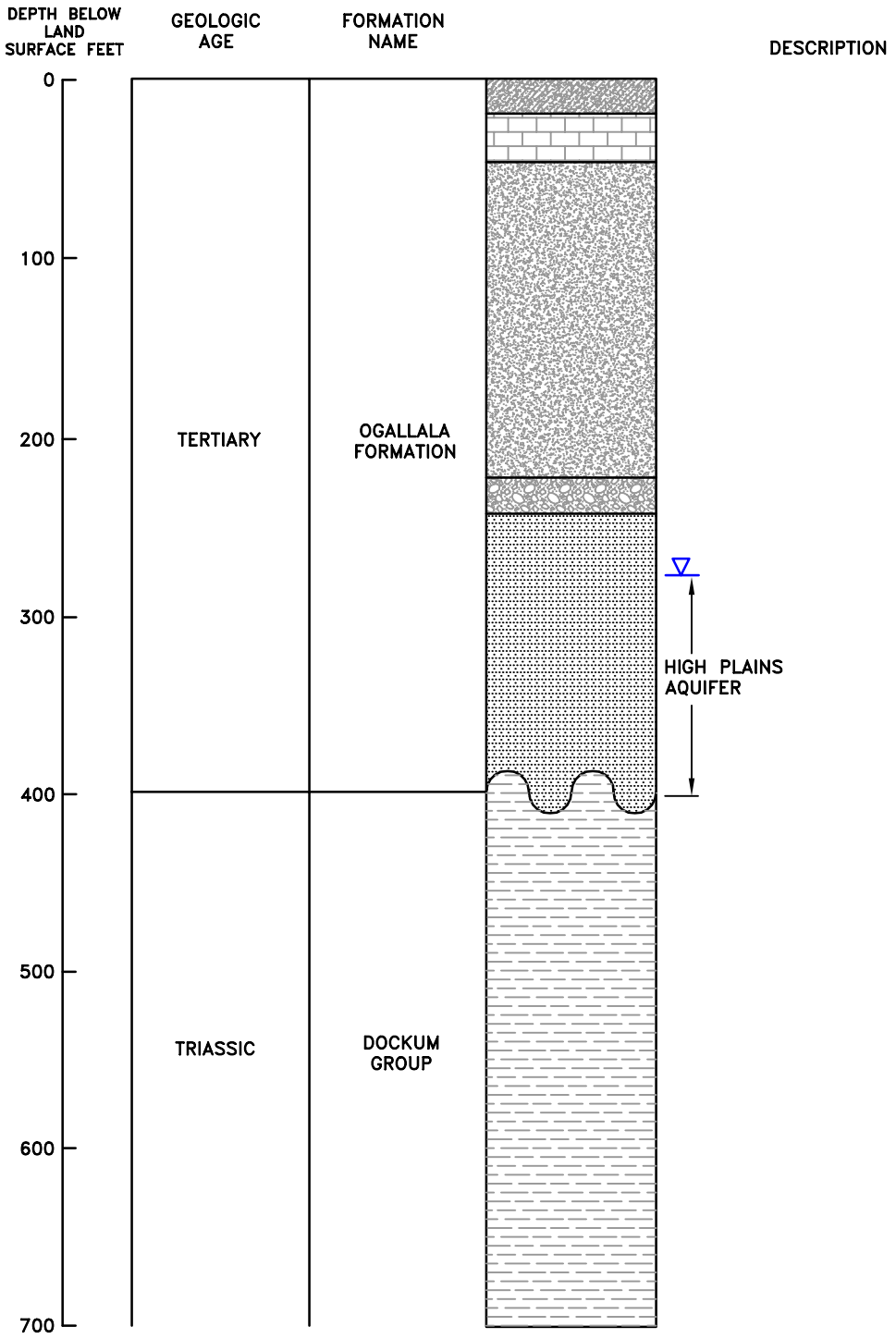
FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	244SS04 surface of excavation December 14, 1999			244SS05 surface of excavation December 14, 1999			244SS06 4 feet bgs December 14, 1999		
					Result	RL	Qual	Result	RL	Qual	Result	RL	Qual
ORGANOCHLORINE PESTICIDES (mg/kg)													
All pesticides were nondetect	ND	0/8											
PCBs (mg/kg)													
All PCBs were nondetect	ND	0/8											
RCRA METALS (mg/kg)													
Arsenic	1.20E+01	8/8	NE	3.90E+00	5.80E+00	unknown		8.40E+00	unknown		7.60E+00	unknown	
Barium	3.80E+02	8/8	NE	1.56E+04	4.80E+01	unknown		5.50E+01	unknown		3.80E+02	unknown	
Cadmium	1.80E+00	8/8	NE	7.03E+01	9.00E-01	unknown		1.10E+00	unknown		1.10E+00	unknown	
Chromium	9.60E+00	6/8	NE	1.17E+05	<	5.60E+00	U	6.90E+00	unknown		5.60E+00	unknown	
Lead	1.30E+01	8/8	NE	4.00E+02	6.20E+00	unknown		9.40E+00	unknown		1.30E+01	unknown	
Mercury	ND	0/8	NE	1.56E+01	<	5.60E-01	U	<	5.60E-01	U	<	5.50E-01	U
Selenium	2.00E+01	2/8	NE	3.91E+02	<	5.60E+00	U	<	5.60E+00	U	<	5.50E+00	U
TPH (mg/kg)	3.00E+02	3/8	1.00E+03	NE	<	1.00E+01	U	<	1.00E+01	U	3.00E+02	NA	

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
< = not detected
bgs = below ground surface
ID = identification
mg/kg = milligrams per kilogram
NA = not available
ND = not detected
NE = not established
NMED = New Mexico Environment Department
PCB = polychlorinated biphenyl
Qual = qualifier
RCRA = Resource Conservation and Recovery Act
RL = reporting limit
SSL = Soil Screening Level
SVOC = semivolatile organic compound
TPH = total petroleum hydrocarbons
U = nondetect

TABLE 2-9b
SUMMARY OF PREVIOUS ANALYTICAL DATA AND SCREENING RESULTS
TA/AS-C129 (SWMU129)

FIELD ID SAMPLE DEPTH (feet bgs) DATE COLLECTED	Maximum	Frequency	NMED TPH Screening Guidelines[1] Residential Direct Exposure - Soil	NMED SSLs[2] for Residential Soil	244SS07 2.5 feet bgs December 14, 1999			244SS08 3.5 feet bgs December 14, 1999		
					Result	RL	Qual	Result	RL	Qual
ORGANOCHLORINE PESTICIDES (mg/kg)										
All pesticides were nondetect	ND	0/8								
PCBs (mg/kg)										
All PCBs were nondetect	ND	0/8								
RCRA METALS (mg/kg)										
Arsenic	1.20E+01	8/8	NE	3.90E+00	1.10E+01	unknown		6.60E+00	unknown	
Barium	3.80E+02	8/8	NE	1.56E+04	1.70E+02	unknown		1.20E+02	unknown	
Cadmium	1.80E+00	8/8	NE	7.03E+01	1.80E+00	unknown		1.60E+00	unknown	
Chromium	9.60E+00	6/8	NE	1.17E+05	8.50E+00	unknown		7.30E+00	unknown	
Lead	1.30E+01	8/8	NE	4.00E+02	1.30E+01	unknown		9.40E+00	unknown	
Mercury	ND	0/8	NE	1.56E+01	<	5.70E-01	U	<	5.60E-01	U
Selenium	2.00E+01	2/8	NE	3.91E+02	2.00E+01	unknown		1.70E+01	unknown	
TPH (mg/kg)	3.00E+02	3/8	1.00E+03	NE	1.00E+02	NA		4.00E+01	NA	

Notes:
[1]Residential Direct Exposure for unknown oil screening guideline (Table 6-3) (NMED 2012)
[2] NMED Residential Soil Screening Levels (NMED 2012)
< = not detected
bgs = below ground surface
ID = identification
mg/kg = milligrams per kilogram
NA = not available
ND = not detected
NE = not established
NMED = New Mexico Environment Department
PCB = polychlorinated biphenyl
Qual = qualifier
RCRA = Resource Conservation and Recovery Act
RL = reporting limit
SSL = Soil Screening Level
SVOC = semivolatile organic compound
TPH = total petroleum hydrocarbons
U = nondetect



LEGEND

- SILTY SAND WITH CALICHE
- CALICHE
- SAND AND SILTY SAND
- SANDY GRAVEL
- SAND
- SANDSTONE (RED BEDS)
- LITHOLOGIC CONTACT
- EROSIONAL UNCONFORMITY
- WATER LEVEL

SOURCE: MODIFIED FROM GUTENTAG ET.AL., 1984

GENERALIZED GEOLOGIC STRATA AT CANNON AIR FORCE BASE
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 2-1
CHK'D. BY: CSA	DATE: 09/30/13		

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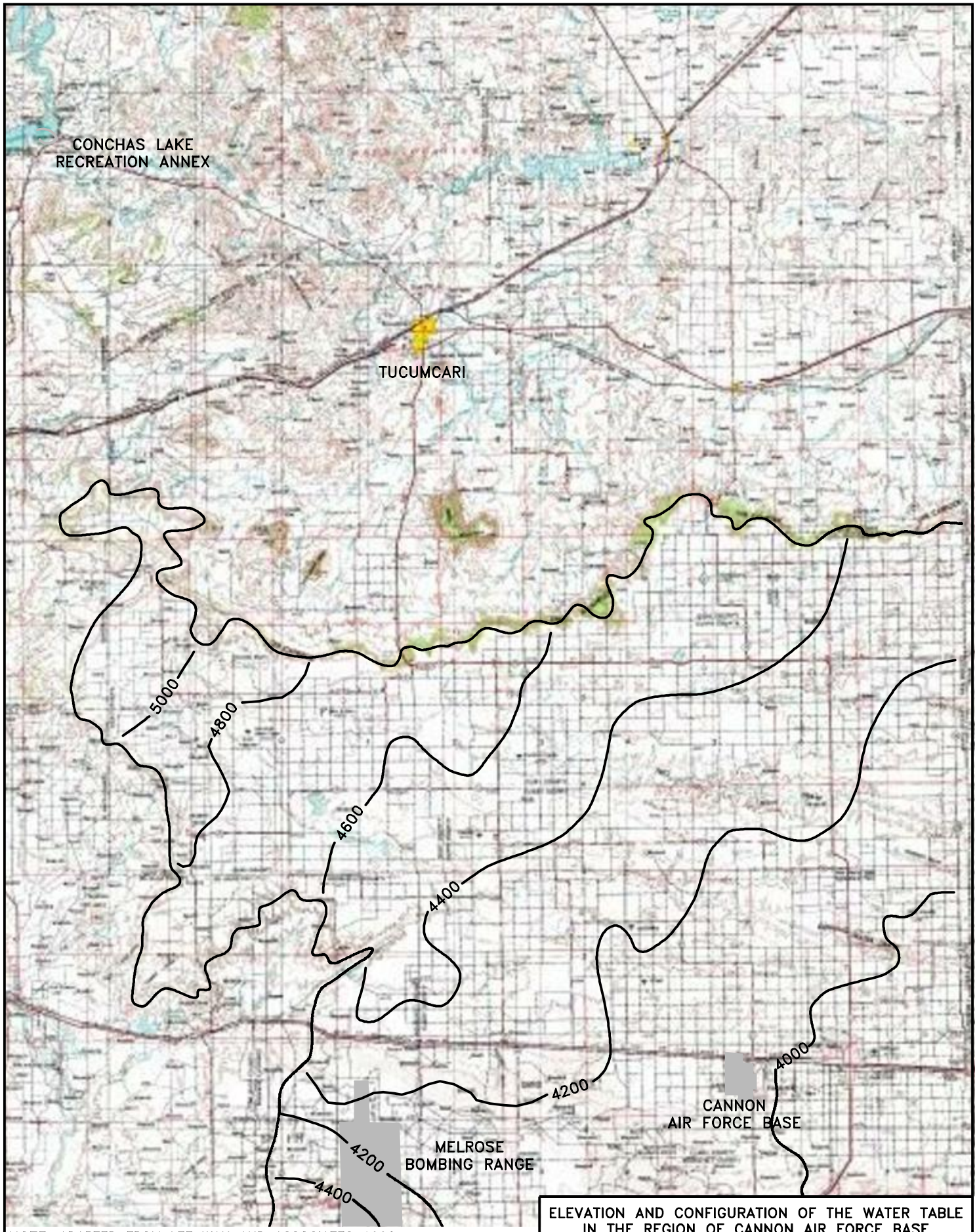
Drawing: T:\CANNON\16170622\400\2-1.dwg



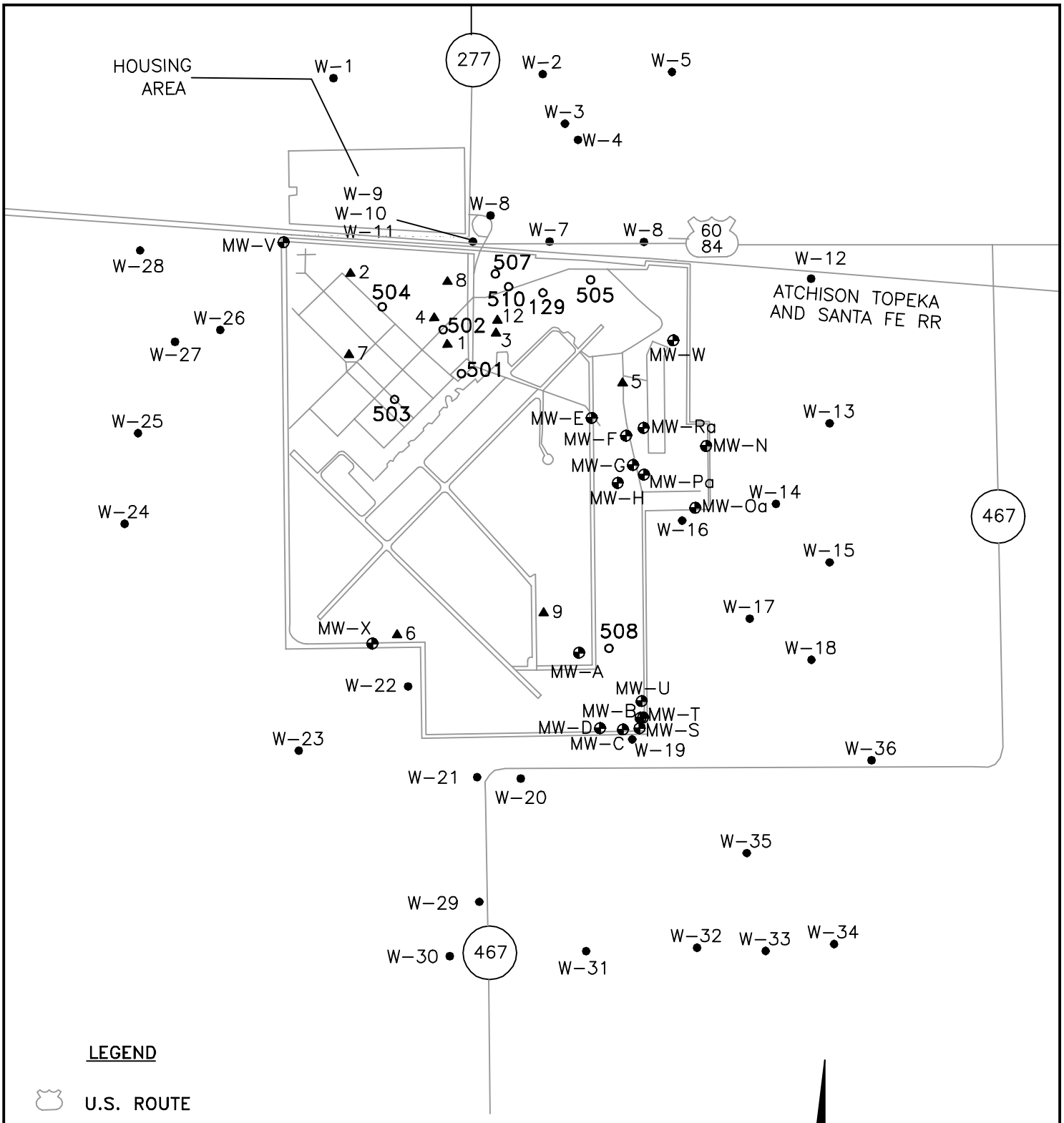
NOTE: ADAPTED FROM LEE WAN AND ASSOCIATES 1990
ORIGINAL SOURCE: USGS

8 4 0 8
SCALE IN MILES

December 18, 2013 9:01:47 a.m.
Drawing: T:\CANNON\16170622\400\2-2.dwg

ELEVATION AND CONFIGURATION OF THE WATER TABLE
IN THE REGION OF CANNON AIR FORCE BASE
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 2-2
CHK'D. BY: CSA	REVISION: 0		



SOURCE: MODIFIED FROM BUTENTAG ET AL., 1984

WATER WELL LOCATIONS ON AND NEAR CANNON AIR FORCE BASE
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 2-3
CHK'D. BY: CSA	DATE: 09/30/13		

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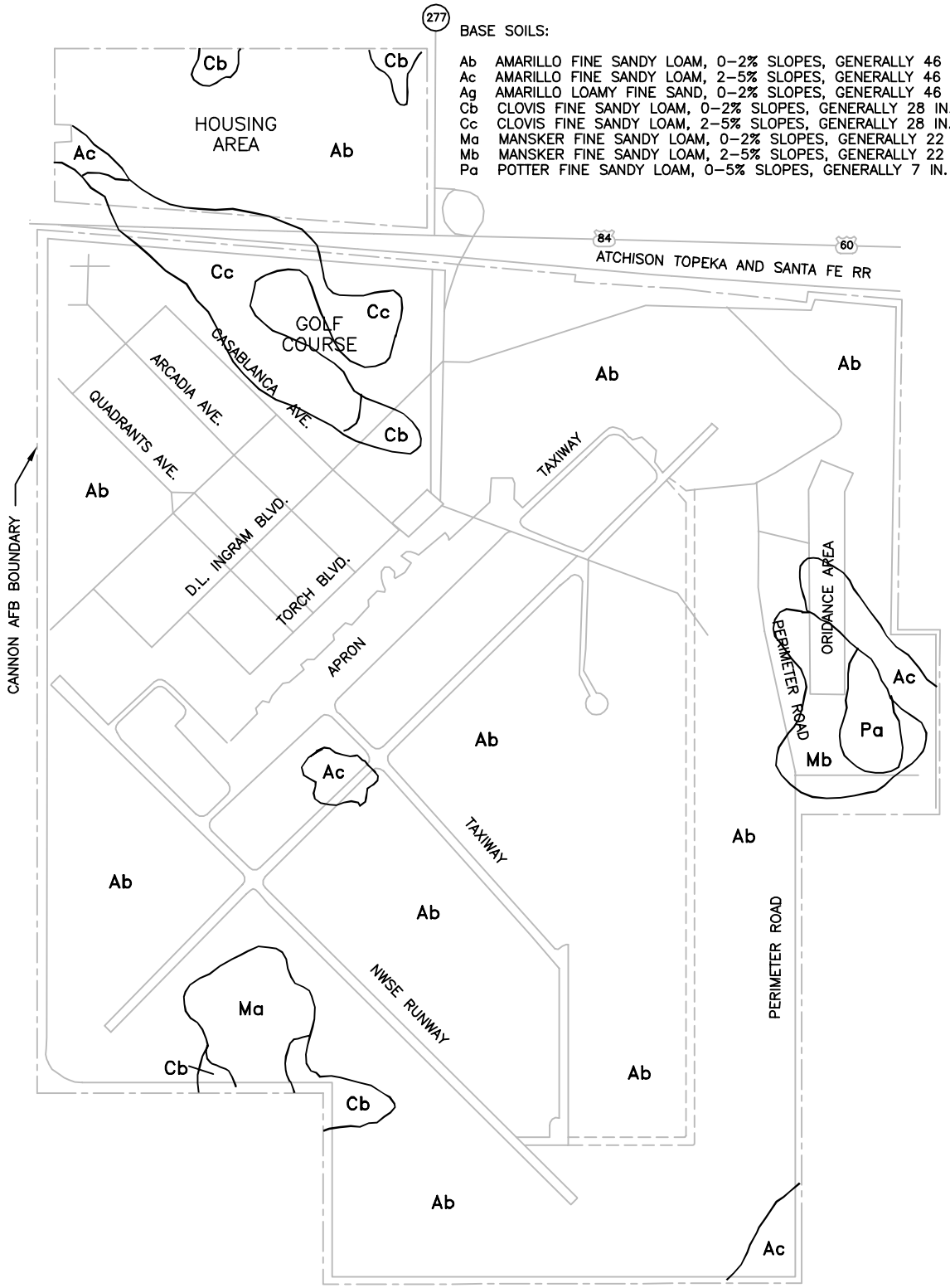


BASE SOILS:

Ab AMARILLO FINE SANDY LOAM, 0–2% SLOPES, GENERALLY 46 IN. THICK
Ac AMARILLO FINE SANDY LOAM, 2–5% SLOPES, GENERALLY 46 IN. THICK
Ag AMARILLO LOAMY FINE SAND, 0–2% SLOPES, GENERALLY 46 IN. THICK
Cb CLOVIS FINE SANDY LOAM, 0–2% SLOPES, GENERALLY 28 IN. THICK
Cc CLOVIS FINE SANDY LOAM, 2–5% SLOPES, GENERALLY 28 IN. THICK
Ma MANSKER FINE SANDY LOAM, 0–2% SLOPES, GENERALLY 22 IN. THICK
Mb MANSKER FINE SANDY LOAM, 2–5% SLOPES, GENERALLY 22 IN. THICK
Pa POTTER FINE SANDY LOAM, 0–5% SLOPES, GENERALLY 7 IN. THICK

N

2000 1000 0 2000
SCALE IN FEET

SOURCE: USDA–S.C.S., SOIL SURVEY OF CURRY COUNTY N.M., 1958

DISTRIBUTION OF SOILS BY TYPE AT
CANNON AIR FORCE BASE
CANNON AIR FORCE BASE, NEW MEXICO

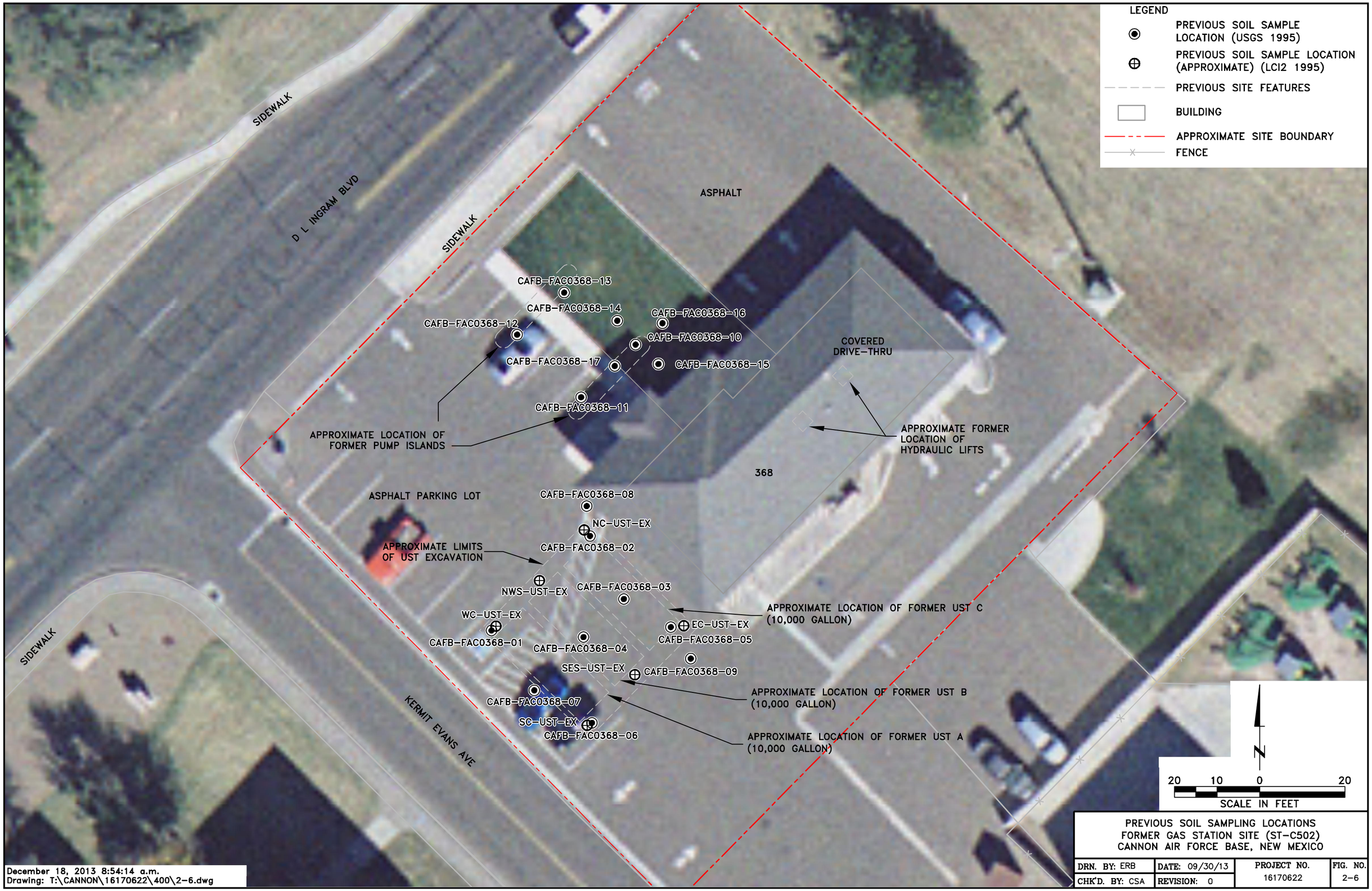
DRN. BY: DPG	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 2–4
CHK'D. BY: CSA	DATE: 09/30/13		

December 18, 2013 9:00:58 a.m.
Drawing: T:\CANNON\16170622\400\2–4.dwg

PREVIOUS SOIL SAMPLING LOCATIONS
FORMER AEROSPACE GROUND EQUIPMENT (AGE)
DISPATCH FACILITY SPILLS SITE (SS-C501)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 09/30/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	2-5

December 18, 2013 8:57:45 a.m.
Drawing: T:\CANNON\16170622\400\2-5.dwg



PREVIOUS SOIL SAMPLING LOCATIONS
FORMER GAS STATION SITE (ST-C502)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 2-6
CHK'D. BY: CSA	REVISION: 0		

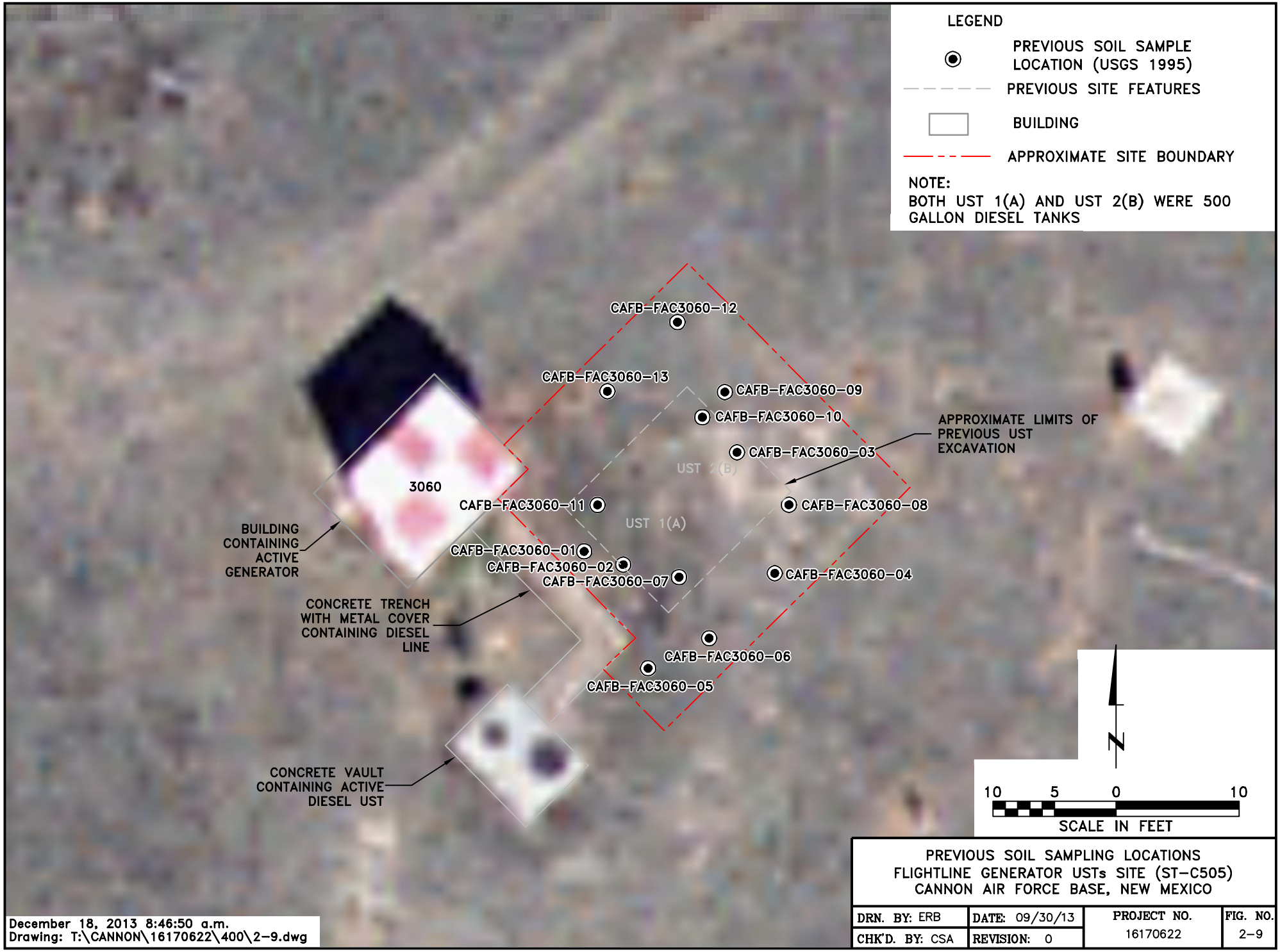
PREVIOUS SOIL SAMPLING LOCATIONS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 09/30/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	2-7

December 18, 2013 8:52:02 a.m.
Drawing: T:\CANNON\16170622\400\2-7.dwg

PREVIOUS SOIL SAMPLING LOCATIONS
HOSPITAL ABANDONED UST SITE (ST-C504)
CANNON AIR FORCE BASE, NEW MEXICO

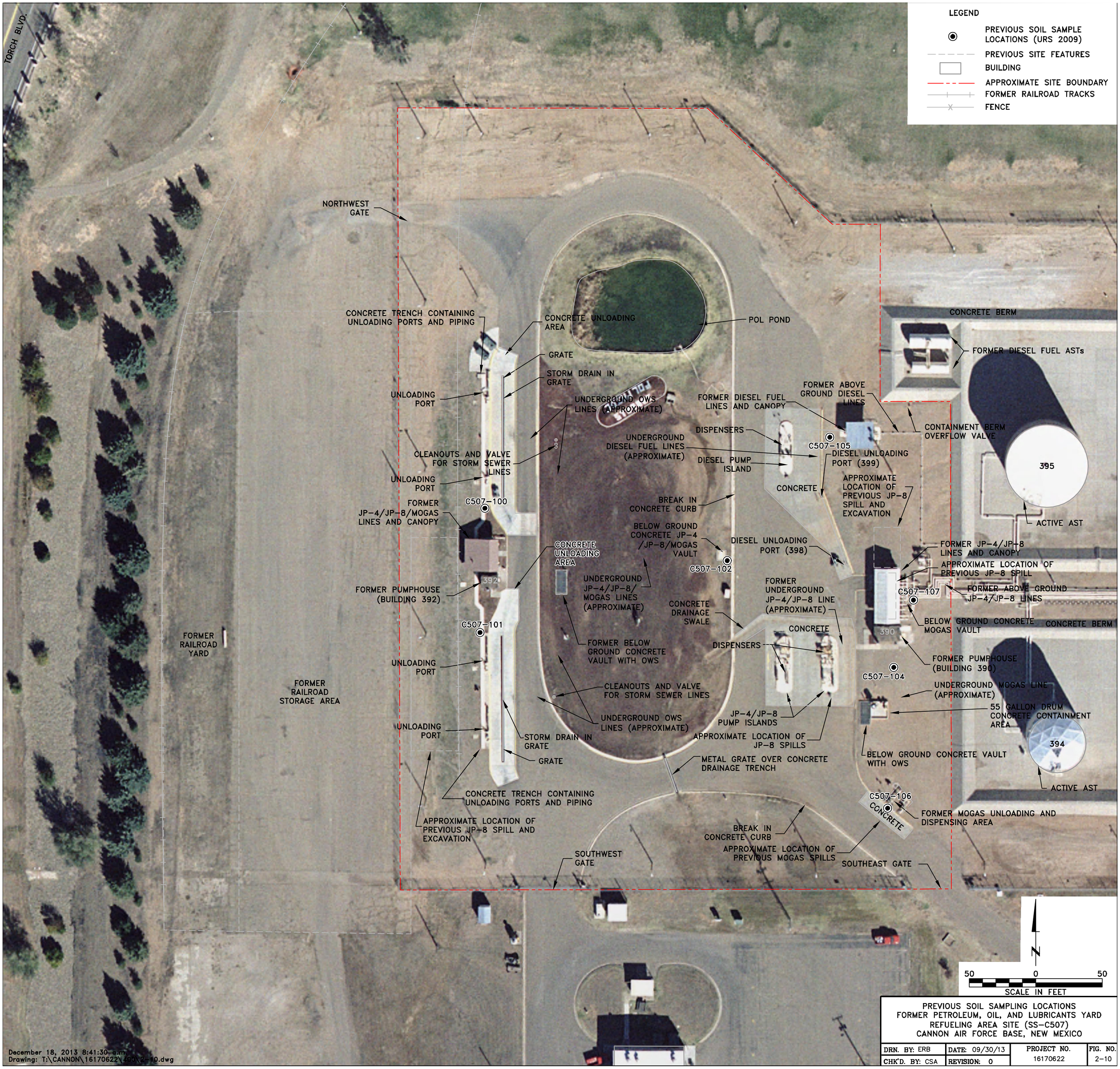
DRN. BY: ERB	DATE: 09/30/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	2-8



PREVIOUS SOIL SAMPLING LOCATIONS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 09/30/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	2-9

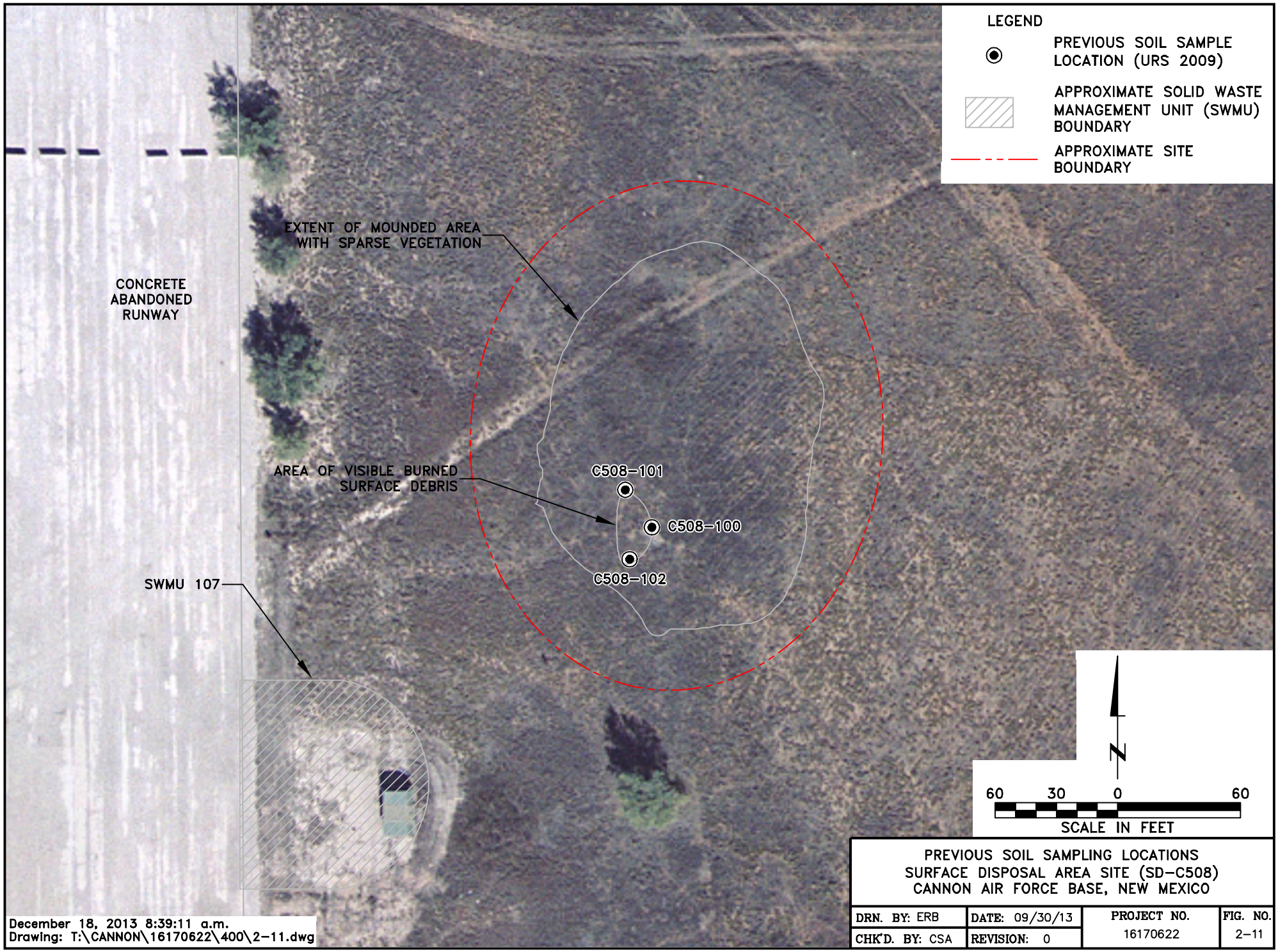
December 18, 2013 8:46:50 a.m.
Drawing: T:\CANNON\16170622\400\2-9.dwg



PREVIOUS SOIL SAMPLING LOCATIONS
FORMER PETROLEUM, OIL, AND LUBRICANTS YARD
REFUELING AREA SITE (SS-C507)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 09/30/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	2-10

December 18, 2013 8:41:30 a.m.
Drawing: T:\CANNON\16170622\400\2-10.dwg



PREVIOUS SOIL SAMPLING LOCATIONS
SURFACE DISPOSAL AREA SITE (SD-C508)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 2-11
CHK'D. BY: CSA	REVISION: 0		

LEGEND

- PREVIOUS SOIL SAMPLE LOCATION (PARALLAX 2000)
- PREVIOUS SITE FEATURES
- APPROXIMATE SITE BOUNDARY
- FENCE

NOTE:
SAMPLES 244SS0-07 AND 244SS0-08 ARE APPROXIMATE

N

20 10 0 20
SCALE IN FEET

PREVIOUS SOIL SAMPLING LOCATIONS
WASTE OIL STORAGE FACILITY 244 AND LEACH FIELD
SITE (TA/AS-C129) (SWMU129)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 12/13/13	PROJECT NO. 16170622	FIG. NO. 2-12
CHK'D. BY: CSA	REVISION: 0		

December 18, 2013 8:36:06 a.m.
Drawing: T:\CANNON\16170622\400\2-12.dwg

The following section presents the objective and approach of the SI at Eight Sites.

3.1 SI OBJECTIVE

The overall objective of the SI was to collect soil analytical data of sufficient quality and quantity to evaluate whether a release has occurred that could pose a risk to human health or the environment. Soil sample locations and analytical parameters were presented in the Project Activities Work Plan (PAWP), and were reviewed and approved by NMED as being adequate for the purposes of this SI. The soil analytical data was used to revise the preliminary site conceptual exposure model (SCEM), and identify appropriate actions for each of the eight sites based on three potential recommendations: CAC without controls, CAC with controls, or further investigation and evaluation.

3.2 SI APPROACH

Soil samples were collected and analyzed for COPCs. A comprehensive COPC list was developed for each site included in this SI based on site history and previous results, to ensure the sites were appropriately evaluated. Concentrations of COPCs were evaluated for potential risks by comparing maximum detected concentrations to risk screening criteria. This conservative screening approach identified sites that pose no unacceptable risk under highly conservative exposure assumptions and, therefore, warrant no further evaluation or action. This approach also identified sites that may warrant further evaluation based on exceedance of stringent risk based concentrations.

The results of these evaluations were used to make recommendations regarding the three alternatives stated above. The recommendations were made on the following basis:

- If no threat to human health exists above residential screening criteria and no potential threat to the environment is apparent, then CAC without controls is recommended.
- If no threat to human health exists above industrial screening criteria and no potential threat to the environment is apparent, then CAC with controls is recommended.
- If there is a potential threat to human health or the environment, then further investigation and/or evaluation is recommended for the site. Further investigation and/or evaluation may include additional field investigation and/or a BRA.

3.3 DEVELOPMENT OF PRELIMINARY SITE CONCEPTUAL EXPOSURE MODELS

The initial step in the evaluation of each of the eight sites was the development of a preliminary SCEM, which provided a framework for evaluating potential risks associated with the site, aided in the identification of data needs, and assisted in the identification of appropriate preliminary remediation goals targeted at significant exposure pathways. Upon completion of the field sampling program, the SCEMs were reviewed and modified, if necessary, in order to reevaluate

the sites, taking into consideration the analytical results of all chemicals of concern for surface and subsurface soil.

The SCEMs present chemical release sources and transport media, potential human or ecological receptors, and intake-mechanisms for each potential exposure pathway. An exposure pathway describes the means by which release, transport, and intake by receptor populations of COPCs occurs. An exposure pathway consists of four necessary elements:

- A source and transport mechanism of chemical release to the environment
- An environmental exposure medium for the released chemical (e.g., surface or subsurface soil)
- A point of potential human or ecological exposure to transported chemicals (e.g., a domestic drinking water well)
- A human or ecological intake mechanism (e.g., inhalation or ingestion) at the point of exposure

All four elements must be present for an exposure pathway to be complete and for chemical exposure to occur. In the SCEMs, potentially significant pathways are denoted with solid lines.

Potential exposure pathways were evaluated with respect to potential chemical sources at the eight sites. Exposure pathways were considered to be potentially complete if there were chemical release and transport mechanisms and identified exposure points and receptors for that exposure pathway. Incomplete exposure pathways do not result in actual exposure to human or ecological receptors and, therefore, do not pose a potential risk. Partial or possible pathways are those that could conceivably be complete and result in an exposure, but the resulting exposure would undoubtedly be at levels that would not pose a significant risk.

The primary sources at each of the eight sites are provided below:

- **The Former AGE Dispatch Facility Spills Site (SS-C501)** – primary sources include at least two diesel fuel spills (up to 60 gallons each) that occurred on the asphalt parking lot.
- **The Former Gas Station Site (ST-C502)** – primary sources include the three former 10,000-gallon MOGAS and diesel fuel USTs, and associated fuel lines and dispensers, where fuel spills or leaks may have occurred.
- **The Base Support/Operations Generator Former UST Site (ST-C503)** – primary source includes a former 500-gallon diesel fuel UST that may have leaked.
- **The Hospital Abandoned UST Site (ST-C504)** – primary source includes an abandoned in place 25,000-gallon diesel fuel UST that may have leaked.
- **The Flightline Generator USTs Site (ST-C505)** – primary source includes two former 500-gallon diesel fuel USTs that may have leaked.

- **The Former POL Yard Refueling Area Site (SS-C507)** – primary sources include historical fuel spills or leaks associated with fuel unloading areas, refueling stations, fuel pumps, and above and below ground fuel piping.
- **The Surface Disposal Area Site (SD-C508)** – primary source includes visible burned debris disposed at the surface.
- **The Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129 [SWMU 129])** – primary sources include historical spills or leaks associated with a waste oil disposal/storage area, a former OWS, and an associated leach field used to discharge water from the former OWS.

- The updated SCEMs are discussed and present in **Section 5**.

3.4 EVALUATION OF BACKGROUND CONCENTRATIONS

At sites where metals were detected in surface (0 to 10 foot interval) and/or subsurface (greater than 10 foot) soil, the metals concentration data were compared to established background concentrations to determine whether metals detected were site-related.

Soils are derived from parent geologic materials as a result of physical, chemical, and biological processes. The soil system is naturally a highly heterogeneous matrix of inorganic and organic components. The relative proportions of these components are dependent upon factors influencing soil formations, such as topography, climate, depositional processes, and time (Sposito and Page 1984). Total concentrations of metals in soils may vary depending upon location; for example, at the surface, soils are influenced by leaching, runoff, atmospheric deposition, and biotic uptake, as well as anthropogenic activity. The ranges of naturally occurring or "background" concentrations of metals in soils vary greatly due to the composition of parent material; therefore, care must be taken in the interpretation of metals data generated during an investigation.

Metals concentrations identified in soil samples during this investigation were compared to background soils concentrations (see **Table 2-1**) presented in "Naturally Occurring Concentrations of Inorganics and Background Concentrations of Pesticides at Cannon Air Force Base, New Mexico" (W-C 1997). The approach compared the maximum concentrations detected at a given site to the 95-percent upper tolerance limit of the background concentrations. Using this technique, individual samples at the sites with high concentrations relative to background levels (i.e., which could represent a site-related release) could be identified.

3.5 HUMAN HEALTH SCREENING-LEVEL EVALUATION METHODOLOGY

This section describes the approach used in the human health screening-level evaluation for the eight sites. Potential human health impacts were evaluated by comparing chemical concentrations (above background) found at the site with NMED human health soil screening

levels (SSLs) for residential exposure (NMED 2012). Where SSLs were not available, results were compared with USEPA human health Regional Screening Levels for residential exposure (USEPA 2011). In addition, TPH data were compared to NMED TPH screening guidelines for Vapor Migration and Inhalation of Groundwater – Residential Direct Exposure for Unknown Oil (Table 6-3) (NMED 2012). The selected residential human health Project Action Limits (PALs) are provided in Worksheet #15 of the Uniform Federal Policy–Quality Assurance Project Plan (UFP-QAPP) (URS 2012).

Although none of the eight sites are used for residential purposes, the residential screening criteria are more stringent than other criteria (e.g., occupational, construction worker). Screening against residential screening criteria accounted for possible future changes in land use. If residential PALs were exceeded, then existing concentrations were compared to industrial screening criteria in order to determine the level of potential risk present. Results of the human health screening-level evaluation are presented in **Section 5**.

3.6 ECOLOGICAL SCREENING-LEVEL EVALUATION METHODOLOGY

The ecological evaluation was conducted in accordance with NMED's Risk Assessment Guidance for Investigations and Remediation, Volume 2, Tier 1: Screening-Level Ecological Risk Assessment, Phase I, Scoping Assessment (NMED 2012). NMED screening guidance consists of four components:

1. Scoping Assessment – in which basic site information is presented, chemical of potential ecological concern (COPECs) identified, and a preliminary conceptual site exposure model (CSEM) developed (i.e., relevant transport and exposure routes are described).
2. Site Exclusion Criteria – in which sites are excluded based on absence of habitat or incomplete exposure routes.
3. Technical Decision Point – a decision is made for no further ecological evaluation, further evaluation, or a removal or remedial action.
4. Screening-Level Ecological Risk Assessment (SLERA)

As part of the scoping assessment, site history and information on suspected contaminants were reviewed and site reconnaissance conducted. At five of the eight sites, viable ecological habitat and potential ecological receptors are absent and no complete exposure pathways exist at or in the locality of the sites. Results of the scoping assessment are presented in **Section 5**.

Three sites were considered to contain potential habitat for ecological receptors (SS-C507, SD-C508 and TA/AS-C129 [SWMU129]), and the purpose of this SI is to evaluate whether or not site concentrations have the potential to cause adverse ecological effects. A SLERA was applied to evaluate whether one or all three sites may be eliminated from further ecological consideration based on a lack of suspected ecological risk, or whether additional evaluation is warranted.

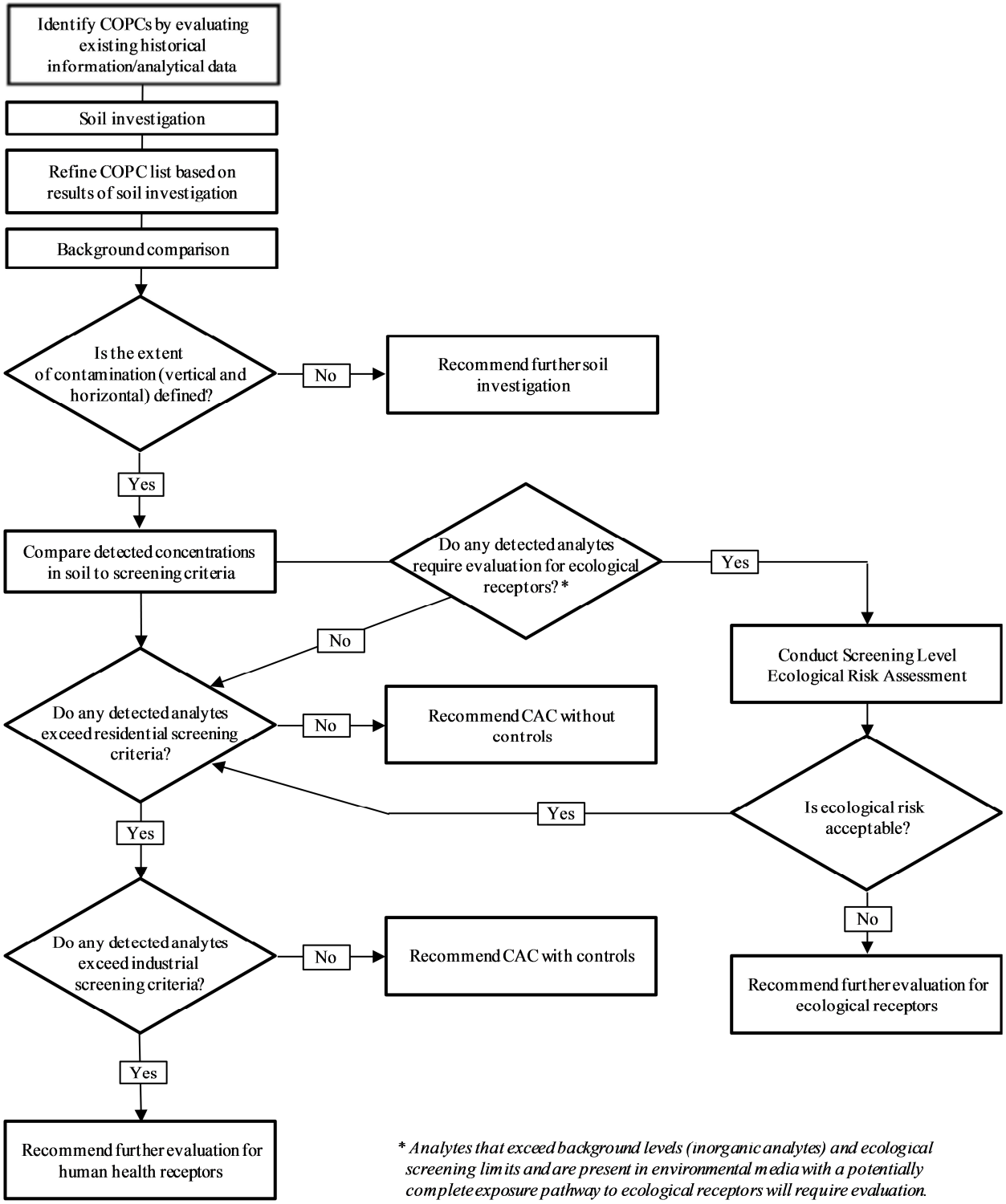
Similar to the human health evaluation, the potential for ecological impacts at SS-C507, SD-C508 and TA/AS-C129 (SWMU129) were evaluated by comparing maximum chemical concentrations with ecologicallybased soil screening criteria. Naturally-occurring inorganic constituents were also compared with background soil concentrations. The ecological PALs were selected from the following sources in order of priority:

1. USEPA (2005-2007) Ecological Soil Screening Levels (ESSLs); the lowest of plant, soil invertebrate, bird and mammal ESSLs
2. The lower of:
   a. Technical Cooperation Program (TTCP) – Energetic Materials (TTCP 2009)
   b. Los Alamos National Laboratory (LANL) Ecological Screening Levels (ESLs) (LANL 2011)
3. USEPA Region 5 ESLs (USEPA 2003)
4. Other published literature (for example, Efroymson et al 1997)

The selected ecological PALs are provided in Worksheet #15 of the UFP-QAPP (URS 2012). Ecological screening criteria estimated in a site-specific quantitative Baseline Ecological Risk Assessment are likely to be much lower than the risk calculated using these screening criteria. A maximum chemical concentration that exceeds an ecological PAL does not mean that an ecological risk exists, for a number of reasons: 1) the maximum concentration detected is not the concentration to which most ecological receptors would routinely be exposed; and/or 2) the exposure assumptions used to derive the ecological PALs are not site-specific; they generally assume that the receptor is in constant contact with the contaminant. PALs are not cleanup goals; cleanup goals are determined on a site-specific basis.

If site concentrations are less than the ecological PALs (or, for metals, background concentrations), potential risks from ecological exposure will be considered acceptable and the technical decision point will be that no further ecological evaluation will be conducted. Chemicals exceeding ecological PALs will be considered COPECs and further evaluation will be recommended. Results of the SLERAs for sites SS-C507, SD-C508 and TA/AS-C129 (SWMU129) are presented in **Section 5**.

FIGURE 3-1
DECISION DIAGRAM FOR SITE INVESTIGATION AT EIGHT SITES



** Analytes that exceed background levels (inorganic analytes) and ecological screening limits and are present in environmental media with a potentially complete exposure pathway to ecological receptors will require evaluation.*

This section summarizes the field activities completed for the SI at the eight sites. Sample designations, sampling equipment and procedures, and sample handling and documentation procedures are described in this section. Sample locations and analytical parameters were reviewed and approved by NMED as being adequate for the purposes of this SI. When necessary, borings were offset slightly to avoid underground utilities. Additional borings (described as "to be determined" [TBD] borings in the PAWP) were advanced at locations where signs of contamination were noted during field screening and at locations where review of previously unavailable as-built diagrams indicated other potential source areas (e.g., underground fuel lines).

4.1 SAMPLING OVERVIEW

4.1.1 Former AGE Dispatch Facility Spills Site (SS-C501)

A total of 24 soil samples were collected from 11 locations with total depths ranging from 4 to 15 feet bgs at SS-C501 on January 29 and 30, 2013. The analyte list for SS-C501 included the following: TPH-DRO, TPH-GRO, TPH-oil range organics (ORO), VOCs, SVOCs, RCRA metals, and PCBs. Soil sample locations are shown on **Figure 4-1**. Soil sampling locations, sample depths, analytical parameters, quality control (QC) and matrix spike/matrix spike duplicate (MS/MSD) sampling locations, and technical rationale for each boring location are summarized in in **Table 4-1**.

4.1.2 Former Gas Station Site (ST-C502)

A total of 74 soil samples were collected from 13 locations with total depths ranging from 4 to 40 feet bgs at ST-C502 between January 28 and February 3, 2013. The analyte list for the UST excavation area and the pump islands at ST-C502 included the following: TPH-DRO, TPH-GRO, TPH-ORO, BTEX+naphthalene, site-related SVOCs, and lead. The analyte list for the vehicle service station area at ST-C502 included the following: TPH-DRO, TPH-GRO, TPH-ORO, VOCs, SVOCs, RCRA metals, and PCBs. Soil sample locations are shown on **Figure 4-2**. Soil sampling locations, sample depths, analytical parameters, QC and MS/MSD sampling locations, and technical rationale for each boring location are summarized in **Table 4-2**.

4.1.3 Base Support/Operations Generator Former UST Site (ST-C503)

A total of 33 soil samples were collected from seven locations with total depths ranging from 5 to 25 feet bgs at ST-C503 on January 29 and 30, 2013. The analyte list for ST-C503 included the following: TPH-DRO, TPH-ORO, BTEX+naphthalene, and site-related SVOCs. Soil sample locations are shown on **Figure 4-3**. Soil sampling locations, sample depths, analytical parameters, QC and MS/MSD sampling locations, and technical rationale for each boring location are summarized in **Table 4-3**.

4.1.4 Hospital Abandoned UST Site (ST-C504)

A total of 164 soil samples were collected from 16 locations with total depths ranging from 25 to 276 feet bgs at ST-C504 between February 5 and February 15, and July 8 and July 12, 2013. The July 2013 sampling was completed as a second phase of work based on the initial round of sampling completed in February 2013. This second phase included collecting additional soil samples at CA504-SB01 (directly adjacent to the UST). The analyte list for ST-C504 included the following: TPH-DRO, TPH-ORO, BTEX+naphthalene, and site-related SVOCs. Soil sample locations are shown on **Figure 4-4**. Soil sampling locations, sample depths, analytical parameters, QC and MS/MSD sampling locations, and technical rationale for each boring location are summarized in **Table 4-4**.

To ensure samples were collected directly adjacent to the abandoned UST, and to avoid multiple underground utilities, GPR was used to determine the exact location of the UST and surrounding utilities (see **Section 4.2.2**). In February 2013, five TBD borings were added in an attempt to further determine the horizontal extent of contamination around the UST. Additionally, CA504-SB01 was advanced from the originally planned target depth of 85 feet bgs to 125 feet bgs, and nine additional samples were collected to help further determine the vertical extent of contamination directly adjacent to the UST. Soil boring SB02, SB03 and SB10 were also advanced beyond their original planned depths and additional samples were collected to help further determine the vertical extent of contamination around the UST. In July 2013, CA504-SB01 was advanced from 125 feet bgs to 276 feet bgs, and 30 additional samples were collected to help further determine the vertical extent of contamination directly adjacent to the UST.

4.1.5 Flightline Generator USTs Site (ST-C505)

A total of 53 soil samples were collected from 10 locations with total depths ranging from 24 to 30 feet bgs at ST-C505 on April 16 through April 18, 2013. The analyte list for ST-C505 included the following: TPH-DRO, TPH-ORO, BTEX+naphthalene, and site-related VOCs. Soil sample locations are shown on **Figure 4-5**. Soil sampling locations, sample depths, analytical parameters, QC and MS/MSD sampling locations, and technical rationale for each boring location are summarized in **Table 4-5**.

4.1.6 Former POL Yard Refueling Area Site (SS-C507)

A total of 37 surface soil (0 to 0.5 foot bgs) and 197 subsurface soil samples were collected from 74 locations with total depths ranging from 10 to 30 feet bgs at SS-C507 between February 4 and February 14, 2013. The analyte list for SS-C507 included the following: TPH-DRO, TPH-GRO, TPH-ORO, BTEX+naphthalene, site-related SVOCs, PCBs, and lead. Soil sample locations are shown on **Figure 4-6**. Soil sampling locations, sample depths, analytical parameters, QC and MS/MSD sampling locations, and technical rationale for each boring location are summarized in **Table 4-6**.

During the utility clearance activities conducted at SS-C507, an updated as-built diagram for the site was obtained and used to locate previously unidentified underground fuel lines. Based on the as-built diagram, eleven TBD borings were added approximately every 50 feet along previously unidentified inactive underground fuel lines and at elbow locations.

4.1.7 Surface Disposal Area Site (SD-C508)

A total of nine surface soil (0 to 0.5 foot bgs) and 24 subsurface soil samples were collected from 9 locations with total depths ranging from 9 to 20 feet bgs at SD-C508 on January 22 and 23, 2013. Soil sample locations are shown on **Figure 4-7**. The analyte list for SD-C508 included the following: TPH-DRO, TPH-GRO, TPH-ORO, VOCs, SVOCs, pesticides, RCRA metals, PCBs, explosives, and dioxins/furans. Soil sampling locations, sample depths, analytical parameters, QC and MS/MSD sampling locations, and technical rationale for each boring location are summarized in **Table 4-7**.

4.1.8 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129)

A total of 34 soil samples were collected from 10 locations with total depths ranging from 4 to 25 feet bgs at the leach field associated with TA/AS-C129 (SWMU129) between January 23 and January 25, 2013. Soil sample locations are shown on **Figure 4-8**. The analyte list for TA/AS-C129 (SWMU129) included the following: TPH-DRO, TPH-GRO, TPH-ORO, VOCs, SVOCs, RCRA metals, PCBs, and pesticides. Soil sampling locations, sample depths, analytical parameters, QC and MS/MSD sampling locations, and technical rationale for each boring location are summarized in **Table 4-8**.

4.2 FIELD ACTIVITIES

The following sections describe the field activities completed including: utility locates, GPR, surveying, surface soil sampling, subsurface drilling and soil sampling, field screening and headspace analysis, photographic documentation, sample handling documentation and analysis, and IDW management. All field activities were completed in accordance with the SI at Eight Sites PAWP (URS 2012).

4.2.1 Utility Locates

Utility clearances were obtained prior to the start of field activities. Underground utilities were marked within the project area and were documented in the field logbook for future use. The completed and approved Base Civil Engineering Work Clearance Requests (AF Form 103, modified for Cannon AFB) are included as **Appendix A**.

4.2.2 Ground Penetrating Radar at ST-C504

In order to ensure samples were collected directly adjacent to the abandoned UST at CT-C504, and to avoid multiple underground utilities, GPR was used to determine the exact location of the

abandoned UST and surrounding utilities. Utilities at this site included a water main and the chilled water lines between the cooling tower and the hospital. The initial GPR survey of the entire site was conducted on February 4. To better locate the chilled water lines, an additional survey within the fenced area was conducted on February 13.

GPR equipment used at ST-C504 included GSSI 400 megahertz (MHz) and 200-MHz antennae and a GSSI SIR 3000 data acquisition system. Maximum penetration depth with these instruments at ST-C504 was approximately 4 feet bgs (with the 200-MHz antenna) and 3.5 feet bgs (with the 400-MHz antenna). The use of these instruments provided sufficient information to accurately determine the location of the abandoned UST and underground utility locations.

The GPR unit was used to provide real time data in the field. The real-time data were used in the field to mark the exact location of the buried UST to ensure soil borings were completed directly adjacent to the UST. The UST location was documented in the field logbook by measuring off known locations. Additionally, the hand-held GPS unit was used to acquire the horizontal coordinates of the UST corners. The horizontal coordinates for the UST are as follows: N 1238833.69, 844721.98; E 1238825.35, 844730.04; S 1238802.32, 844706.38; W 1238810.66, 844698.32. Photographs of the GPR activities are provided in **Appendix C** (Photographs 10 and 11).

Final boring locations were adjusted slightly at ST-C504 following the GPR survey of this site.

4.2.3 Surveying of Sample Locations

Survey coordinates were recorded using a Trimble Geo XH 6100 hand-held global positioning system (GPS). Horizontal coordinates were surveyed to within 1 meter of actual locations using North American Datum of 1983. Soil sampling locations were also documented by measuring distances from fixed objects at the project site (e.g., tops of curbs on perpendicular roads or driveways) to verify the accuracy of the GPS. Soil sample location survey coordinates are provided in **Tables 4-1** through **4-8**.

4.2.4 Surface Soil Sampling

Discrete surface soil samples were collected by hand for laboratory analysis using TerraCore samplers and a stainless steel trowel. Surface soil samples were collected from 0 to 0.5 foot bgs. TerraCore samples were collected in-situ to avoid losing volatile contaminants. Soil was then collected using a stainless steel trowel and mixed thoroughly in a stainless steel bowl in an attempt to obtain a homogeneous soil sample. Visible plant material, debris, and any rock fragments or gravel were excluded from the sample. Following homogenization, samples were placed into laboratory-provided containers and wrapped in protective packing material (i.e., foam liners and bubble packing). Surface soil SCFSs with a soil description in accordance with the USCS documenting the collection of each sample, were completed and are included in **Appendix B**.

All surface soil sampling equipment was decontaminated as described in the SI at Eight Sites PAWP (URS 2012).

4.2.5 Subsurface Soil Sampling

Subsurface samples were collected in 5-foot intervals using standard direct push technology methods and sonic drilling (at ST-C504, CA504-SB01). Continuous soil samples were collected at all boring locations. Continuous sampling generally began at the ground surface or directly underneath the pavement. At the additional TBD borings advanced at ST-C504 (CA504-SB12 through SB16), continuous soil sampling began about 10 feet bgs because contamination related to the UST leak was not suspected in the 0- to 10-foot bgs interval. Additionally, at the TBD borings advanced around underground fuel lines at SS-C507, continuous soil sampling began about 10 feet bgs to target the area likely impacted if a leak had occurred around the underground lines. Soil boring logs, including detailed soil descriptions of material encountered (using USCS) and field screening results for each sample collected, were completed and are included in **Appendix B**.

Subsurface soil samples were collected using Geoprobe Macro-core sampler with 1.5-inch diameter, 5-foot-long, clear acetate liners (for direct push methods) or using a 6-inch-diameter, 10-foot-long dual tube sampler (for sonic drilling methods). TerraCore samples were collected immediately from the soil core (after opening the liner or extruding the sample) to avoid losing volatile contaminants. Remaining soil from the core was then mixed thoroughly in a stainless steel bowl to obtain a homogeneous soil sample. Following homogenization, samples was placed into laboratory-provided containers and wrapped in protective packing material (i.e., foam liners and bubble packing). Soil SCFSs with a soil description in accordance with the USCS documenting the collection of each sample, were completed and are included in **Appendix B**.

All subsurface soil sampling equipment was decontaminated as described in the SI at Eight Sites PAWP (URS 2012).

4.2.6 Field Screening and Headspace Analysis

Field screening and headspace analysis were conducted as described in Section 5.4 of the PAWP (URS 2012). Headspace analysis was accomplished using a MiniRae 2000 or 3000 PID with a 10.6-electron volt lamp. Headspace readings were recorded on boring logs and SCFSs. Prior to obtaining headspace readings, the PID was calibrated with isobutylene gas (100 parts per million). PID calibration was documented in the field logbook.

The results of headspace analysis were used to determine where additional sampling should take place. If signs of contamination (e.g., odor or elevated headspace readings) were present in the soil from the deepest planned interval at a boring location, then additional soil samples were collected at deeper intervals in an attempt to further determine the vertical extent of contamination at that location. If signs of contamination were present at a boring location, then

TBD or step-out borings were completed in an attempt to further determine the horizontal extent of contamination.

4.2.7 Photographic Documentation

The general sampling area and various soil sampling activities were photographed to document the field sampling activities. Additionally, all surface soil sampling locations were photographed to document the ground surface conditions. Photographic documentation of field activities is provided in **Appendix C**.

4.2.8 Sample Handling, Documentation, and Analysis

The labeling, preservation, handling, shipping, documentation, and tracking procedures for all samples collected during this investigation at Cannon AFB were performed as described in the following sub-sections.

4.2.8.1 Sample Handling

Samples were collected in laboratory provided containers. Sample identification labels were completed using waterproof ink and attached to each sample. Each sample was labeled with a unique code indicating the site number, sample location number, matrix identifier, and sample depth. Labels included the date and time of sample collection, analysis required, and samplers' initials. Sample labels were supplied by URS. Samples were placed in a cooler for overnight express carrier shipment to the laboratory. A completed and signed CoC was placed in the cooler. Samples were shipped to EMAX Laboratories, Inc. (EMAX).

4.2.8.2 Field Documentation

Field observations and data were recorded using a pen with permanent waterproof ink in a permanently bound, weatherproof field logbook containing consecutively numbered pages, boring logs, and on SCFSs. The information in the field logbook, on the boring logs, and on the SCFSs included, but was not limited to, the sample location, date and time of sample collection, sample identification code, description of samples (matrix sampled), sample depth, sampling methods, analytical methods, field observations, and personnel present. Each page in the field book was signed by the person making the entry at the end of the day. Field documentation is provided in **Appendix B**.

4.2.8.3 Sample Chain-of-Custody

Information concerning the custody, transfer, handling, and shipping of samples was recorded on a CoC form. The sampler filled out the CoC form and kept the samples in his possession until he relinquished them to the delivery service (Federal Express). The completed CoCs are included in **Appendix D**.

4.2.8.4 Laboratory Information

The contact information for the analytical chemistry laboratory used for this investigation is:

EMAX Laboratories, Inc.
Point of Contact: Molly Nguyen (mnguyen@emaxlabs.com)
1835 West 205th Street, Torrance, CA 90501
Tel: 310-618-8889 Fax: 310-618-0818

EMAX has Department of Defense Environmental Laboratory Accreditation Program accreditation for all environmental analytes that expires on January 10, 2014.

4.2.9 Investigation-Derived Waste

Soil IDW generated during project field activities was containerized in either 55-gallon steel drums or a roll-off dumpster, and was temporarily stored on site. A composite IDW sample was and analyzed for: TPH-DRO, TPH-GRO, TPH-oil range organics (ORO), VOCs, SVOCs, pesticides, PCBs, RCRA metals, explosives, and dioxins furans. Based on the results of the analyses, the soil was characterized as nonhazardous and disposed of at an approved land farm. Laboratory results and other IDW documentation can be found in **Appendix E**. Field screening of decontamination water was conducted with a PID, and the water was visually inspected for any signs of contamination. No signs of contamination were detected; therefore decontamination water was discharged to the sanitary sewer system. Personal protective equipment and disposable sampling supplies were disposed of on the base as solid waste.

TABLE 4-1
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

Sample Location Identification	Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters									Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	VOCs[5]	SVOCs[6]	RCRA Metals[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	
CA501-SB01	1-5	1236498.948	847068.969	X	X	X	X	X	X	X			Boring was advanced on the north corner of the north diesel fuel spill area.
	5-10			X	X	X	X	X	X	X		X	
CA501-SB02	1-4	1236447.195	847022.305	X	X	X	X	X	X	X			Boring was advanced on the west corner of the north diesel fuel spill area.
	5-10			X	X	X	X	X	X	X			
CA501-SB03	1-4	1236454.590	847065.820	X	X	X	X	X	X	X	X		Boring was advanced in the center of the north diesel fuel spill area.
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA501-SB04	1-4	1236458.969	847110.366	X	X	X	X	X	X	X			Boring was advanced on the east corner of the north diesel fuel spill area.
	5-9			X	X	X	X	X	X	X			
CA501-SB05	1-5	1236409.667	847058.708	X	X	X	X	X	X	X			Boring was advanced on the south corner of the north diesel fuel spill area.
	5-10			X	X	X	X	X	X	X			
CA501-SB06	1-5	1236390.298	847002.840	X	X	X	X	X	X	X			Boring was advanced in the center of the site, between the two fuel spill areas.
	5-9			X	X	X	X	X	X	X		X	
CA501-SB07	1-5	1236371.638	846945.002	X	X	X	X	X	X	X			Boring was advanced on the north corner of the south diesel fuel spill area.
	5-10			X	X	X	X	X	X	X			
CA501-SB08	1-5	1236320.295	846893.792	X	X	X	X	X	X	X			Boring was advanced on the west corner of the south diesel fuel spill area.
	5-10			X	X	X	X	X	X	X			
CA501-SB09	1-4	1236326.005	846939.860	X	X	X	X	X	X	X	X		Boring was advanced in the center of the south diesel fuel spill area.
	5-10			X	X	X	X	X	X	X	X		
	10-15			X	X	X	X	X	X	X			
CA501-SB10	1-5	1236331.600	846982.943	X	X	X	X	X	X	X			Boring was advanced on the east corner of the south diesel fuel spill area.
	5-10			X	X	X	X	X	X	X			
CA501-SB11	1-5	1236280.915	846933.763	X	X	X	X	X	X	X			Boring was advanced on the south corner of the south diesel fuel spill area.
	5-9			X	X	X	X	X	X	X			
			Totals	**24**	**24**	**24**	**24**	**24**	**24**	**24**	**3**	**2**	

TABLE 4-1
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

Sample Location Identification	Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]	Analytical Parameters									Technical Rationale
			TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	VOCs[5]	SVOCs[6]	RCRA Metals[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	

Notes:
[1]Horizontal coordinates are in New Mexico East State Plane, North American Datum of 1983.
[2]TPH-DRO analysis via USEPA Method 8015C
[3]TPH-GRO analysis via USEPA Method 8015C
[4]TPH-ORO analysis via USEPA Method 8015C
[5]VOCs analysis via USEPA Method 8260B
[6]SVOCs analysis via USEPA Method 8270D
[7]Metals analysis via USEPA Method 6020A and USEPA Method 7471B (Mercury)
[8]PCBs analysis via USEPA Method 8082A
[9]Field duplicate samples were collected at a rate of 10% (1 per 10 samples collected) for laboratory analysis.
[10]MS/MSD samples were collected at a rate of 5% (1 per 20 samples collected) for laboratory analysis.
Laboratory analysis completed by EMAX Laboratories, Torrance, California
bgs = below ground surface
MS/MSD = matrix spike/matrix spike duplicate
PCB = polychlorinated biphenyl
RCRA = Resource Conservation and Recovery Act
SVOC = semivolatile organic compound
TPH-DRO = total petroleum hydrocarbons-diesel range organics
TPH-GRO = total petroleum hydrocarbons-gasoline range organics
TPH-ORO = total petroleum hydrocarbons-oil range organics
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
x = sample collected

TABLE 4-2
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER GAS STATION (ST-C502)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters												Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX+Naphthalene[5]	VOCs[6]	Site-Related SVOCs[7]	SVOCs[8]	Lead[9]	RCRA Metals[10]	PCBs[11]	Field Duplicate Samples[12]	MS/MSD Samples[13]	
CA502-SB01	1-4	1237662.658	846524.522	X	X	X	X		X		X					Boring was advanced in the north quadrant of the previously excavated UST pit (approximately 13 feet south of the north corner of the previously excavated UST pit) to determine if contamination is present from potential UST leaks.
	5-10			X	X	X	X		X		X					
	10-15			X	X	X	X		X		X					
	15-20			X	X	X	X		X		X					
	20-25			X	X	X	X		X		X					
	25-30			X	X	X	X		X		X					
CA502-SB02	1-5	1237650.332	846537.105	X	X	X	X		X		X					Boring was advanced in the east quadrant of the previously excavated UST pit (approximately 13 feet west of the east corner of the previously excavated UST pit) to determine if contamination is present from potential UST leaks.
	5-10			X	X	X	X		X		X					
	10-15			X	X	X	X		X		X					
	15-20			X	X	X	X		X		X					
	20-25			X	X	X	X		X		X					
	25-30			X	X	X	X		X		X					
CA502-SB03	1-5	1237637.748	846524.779	X	X	X	X		X		X					Boring was advanced in the south quadrant of the previously excavated UST pit (approximately 13 feet north of the south corner of the previously excavated UST pit) to determine if contamination is present from potential UST leaks.
	5-10			X	X	X	X		X		X					
	10-15			X	X	X	X		X		X					
	15-20			X	X	X	X		X		X					
	20-25			X	X	X	X		X		X					
	25-30			X	X	X	X		X		X				X	
CA502-SB04	1-5	1237650.075	846512.195	X	X	X	X		X		X					Boring was advanced in the west quadrant of the previously excavated UST pit (approximately 13 feet east of the west corner of the previously excavated UST pit) to determine if contamination is present from potential UST leaks.
	5-8			X	X	X	X		X		X					
	8-10			X	X	X	X		X		X					
	10-15			X	X	X	X		X		X					
	15-20			X	X	X	X		X		X					
	20-25			X	X	X	X		X		X					
	25-30			X	X	X	X		X		X					
CA502-SB05	0-5	1237733.460	846519.618	X	X	X	X		X		X			X		Boring was advanced on the northeast end of the northwest pump island (at the approximate location of the former fuel dispenser) to determine if contamination is present from potential leaking underground piping or potential surface spills.
	5-10			X	X	X	X		X		X					
	10-15			X	X	X	X		X		X					
	15-20			X	X	X	X		X		X					
	20-25			X	X	X	X		X		X					

TABLE 4-2
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER GAS STATION (ST-C502)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters												Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX+Naphthalene[5]	VOCs[6]	Site-Related SVOCs[7]	SVOCs[8]	Lead[9]	RCRA Metals[10]	PCBs[11]	Field Duplicate Samples[12]	MS/MSD Samples[13]	
CA502-SB05	25-30	1237733.460	846519.618	X	X	X	X		X		X				X	
CA502-SB06	1-5	1237728.478	846508.404	X	X	X	X		X		X					Boring was advanced approximately 5 feet northwest of the northwest pump island to determine if contamination is present from potential surface spills.
	5-10			X	X	X	X		X		X					
	10-15			X	X	X	X		X		X					
	15-20			X	X	X	X		X		X					
	20-25			X	X	X	X		X		X					
	25-30			X	X	X	X		X		X					
CA502-SB07	1-5	1237718.577	846505.194	X	X	X	X		X		X			X		Boring was advanced on the southwest end of the northwest pump island (at the approximate location of the former fuel dispenser) to determine if contamination is present from potential leaking underground piping or potential surface spills.
	5-10			X	X	X	X		X		X					
	10-15			X	X	X	X		X		X					
	15-20			X	X	X	X		X		X					
	20-25			X	X	X	X		X		X					
	25-30			X	X	X	X		X		X					
CA502-SB08	1-5	1237720.429	846518.221	X	X	X	X		X		X					Boring was advanced approximately 8 feet southeast of the northwest pump island to determine if contamination is present from potential surface spills.
	5-10			X	X	X	X		X		X					
	10-15			X	X	X	X		X		X					
	15-18			X	X	X	X		X		X					
	20-25			X	X	X	X		X		X					
	25-30			X	X	X	X		X		X				X	
CA502-SB09	1-5	1237701.813	846522.319	X	X	X	X		X		X					Boring was advanced on the southwest end of the southeast pump island (at the approximate location of the former fuel dispenser) to determine if contamination is present from potential leaking underground piping or potential surface spills.
	5-10			X	X	X	X		X		X					
	10-15			X	X	X	X		X		X					
	15-20			X	X	X	X		X		X			X		
	20-25			X	X	X	X		X		X			X		
	25-30			X	X	X	X		X		X					
CA502-SB10	1-5	1237704.465	846536.664	X	X	X	X		X		X					Boring was advanced approximately 8 feet southeast of the southeast pump island to determine if contamination is present from potential surface spills.
	5-10			X	X	X	X		X		X					
	10-15			X	X	X	X		X		X					
	15-20			X	X	X	X		X		X					
	20-25			X	X	X	X		X		X					

TABLE 4-2
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER GAS STATION (ST-C502)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters												Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX+Naphthalene[5]	VOCs[6]	Site-Related SVOCs[7]	SVOCs[8]	Lead[9]	RCRA Metals[10]	PCBs[11]	Field Duplicate Samples[12]	MS/MSD Samples[13]	
CA502-SB10	25-30	1237704.465	846536.664	X	X	X	X		X		X					
CA502-SB11	0-5	1237716.992	846536.552	X	X	X	X		X		X					Boring was advanced at the previous location of CAFB-FAC0368-10 (located in the primary source of contamination - on the northeast end of the southeastern pump island) in order to quantify the previously detected contamination at this location. Maximum previously detected concentration of TPH-GRO (1,000 mg/kg) at 24-25 feet bgs.
	5-10			X	X	X	X		X		X					
	10-15			X	X	X	X		X		X					
	15-20			X	X	X	X		X		X					
	20-25			X	X	X	X		X		X			X		
	25-28			X	X	X	X		X		X			X		
	30-35			X	X	X	X		X		X					
	35-40			X	X	X	X		X		X					
CA502-SB12	1-5	1237713.652	846579.557	X	X	X		X		X		X	X			Borings were advanced within the vicinity of the formerly present northeastern hydraulic lift in order to determine if contamination is present due to potential leaking hydraulic fuel lines, tanks or potential petroleum hydrocarbon surface spills.
	5-10			X	X	X		X		X		X	X			
CA502-SB13	1-4	1237705.838	846588.537	X	X	X		X		X		X	X			
	5-9			X	X	X		X		X		X	X			
	10-12			X	X	X		X		X		X	X			
			Totals	**74**	**74**	**74**	**69**	**5**	**69**	**5**	**69**	**5**	**5**	**6**	**3**	

Notes:

[1]Horizontal coordinates are in New Mexico East State Plane, North American Datum of 1983.
[2]TPH-DRO analysis via USEPA Method 8015C
[3]TPH-GRO analysis via USEPA Method 8015C
[4]TPH-ORO analysis via USEPA Method 8015C
[5]BTEX+naphthalene analysis via USEPA Method 8260B
[6]VOCs analysis via USEPA Method 8260B
[7]Site-related SVOCs analysis via USEPA Method 8270D
[8]SVOCs analysis via USEPA Method 8270D
[9]Lead analysis via USEPA Method 6020A
[10]Metals analysis via USEPA Method 6020A and USEPA Method 7471B (Mercury)
[11]PCBs analysis via USEPA Method 8082A
[12]Field duplicate samples were collected at a rate of 10% (1 per 10 samples collected) for laboratory analysis.
[13]MS/MSD samples were collected at a rate of 5% (1 per 20 samples collected) for laboratory analysis.
Laboratory analysis completed by EMAX Laboratories, Torrance, California

bgs = below ground surface
mg/kg = milligrams per kilogram
MS/MSD = matrix spike/matrix spike duplicate
SVOC = semivolatile organic compound
TPH-DRO = total petroleum hydrocarbons-diesel range organics
TPH-GRO = total petroleum hydrocarbons-gasoline range organics
TPH-ORO = total petroleum hydrocarbons-oil range organics
USEPA = United States Environmental Protection Agency
UST = underground storage tank
VOC = volatile organic compound
x = sample collected

TABLE 4-3
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters						Technical Rationale
				TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	SiteRelated SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	
CA503-SB01	0-5	1235819.371	845220.667	X	X	X	X			Boring will be advanced in the center of the north quadrant of the previously excavated UST pit to determine if contamination is present from previous leaking UST.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-24			X	X	X	X			
CA503-SB02	0-5	1235810.863	845212.870	X	X	X	X			Boring will be advanced in the center of the west quadrant of the previously excavated UST pit to determine if contamination is present from previous leaking UST.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X		X	
CA503-SB03	0-5	1235811.868	845227.384	X	X	X	X			Boring will be advanced at previous sample location CAFB-FAC0600-03 in order to quantify the previously detected contamination at this location. Maximum previously detected concentration of TPH-DRO (3,500 mg/kg) at 14-16 feet bgs.
	5-10			X	X	X	X			
	10-15			X	X	X	X	X		
	15-20			X	X	X	X			
	20-23			X	X	X	X			
CA503-SB04	0-5	1235812.390	845235.075	X	X	X	X			Boring will be advanced in the east corner of the previously excavated UST pit in order to determine if contamination is present at this location (and to assist in delineating any contamination present at CA503-SB03).
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X		X	
CA503-SB05	0-5	1235807.27	845219.06	X	X	X	X			Boring will be advanced at previous sample location CAFB-FAC0600-05 in order to quantify the previously detected contamination at this location. Maximum previously detected concentration of TPH-DRO (820 mg/kg) at 10-12 feet bgs.
	5-10			X	X	X	X	X		
	10-15			X	X	X	X	X		
	15-20			X	X	X	X			
	20-25			X	X	X	X			
CA503-SB06	0-5	1235803.540	845219.918	X	X	X	X			Boring will be advanced in the center of the south quadrant of the previously excavated UST pit to determine if contamination is present from previous leaking UST.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			

TABLE 4-3
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters						Technical Rationale
				TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	SiteRelated SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	
CA503-SB07	10-15	1235805.05	845226.5	X	X	X	X			Boring will be advanced at the location of SES-UST-EX in order to quantify the previously detected contamination at this location. Previously, TPH detected at 1,370 mg/kg at 11 feet bgs.
	15-20			X	X	X	X			
	20-25			X	X	X	X			
			Totals	**33**	**33**	**33**	**33**	**3**	**2**	

Notes:

[1]Horizontal coordinates are in New Mexico East State Plane, North American Datum of 1983.

[2]TPH-DRO analysis via USEPA Method 8015C

[3]TPH-ORO analysis via USEPA Method 8015C

[4]BTEX + naphthalene analysis via USEPA Method 8260B

[5]Site-related SVOCs analysis via USEPA Method 8270D

[6]Field duplicate samples will be collected at a rate of 10% (1 per 10 samples collected) for laboratory analysis.

[7]MS/MSD samples will be collected at a rate of 10% (1 per 10 samples collected) for laboratory analysis.

Laboratory analysis completed by EMAX Laboratories, Torrance, California

bgs = below ground surface

mg/kg = milligrams per kilogram

MS/MSD = matrix spike/matrix spike duplicate

SVOC = semivolatile organic compound

TPH-DRO = total petroleum hydrocarbons-diesel range organics

TPH-GRO = total petroleum hydrocarbons-gasoline range organics

TPH-ORO = total petroleum hydrocarbons-oil range organics

USEPA = United States Environmental Protection Agency

UST = underground storage tank

VOC = volatile organic compound

x = sample collected

TABLE 4-4
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
HOSPITAL ABANDONED UST SITE (ST-C504)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters						Technical Rationale
				TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	Site-Related SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	
CA504-SB01	0-5	1238830.303	844711.606	X	X	X	X			Boring was advanced near the former location of CAFB-FAC1400-03 (located near the primary source of contamination - approximately 10 feet north of the center of the UST) in order to quantify the previously detected contamination at this location. Maximum previously detected concentration of TPH-DRO (11,000 mg/kg) at 49.5-50.5 feet bgs. Concentrations of TPH-DRO previously detected to 75.0 feet bgs.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-23			X	X	X	X			
	23-25			X	X	X	X	X		
	25-30			X	X	X	X			
	30-35			X	X	X	X			
	35-40			X	X	X	X			
	40-45			X	X	X	X	X		
	45-50			X	X	X	X			
	50-55			X	X	X	X			
	55-60			X	X	X	X			
	60-65			X	X	X	X	X		
	65-70			X	X	X	X			
	70-75			X	X	X	X			
	75-80			X	X	X	X			
	80-85			X	X	X	X	X		
	85-90			X	X	X	X			
	90-95			X	X	X	X			
	95-100			X	X	X	X			
	100-105			X	X	X	X			
	105-110			X	X	X	X			
	110-115			X	X	X	X			
	115-120			X	X	X	X			
	120-125			X	X	X	X			
	125-130			X	X	X	X			
	130-135			X	X	X	X	X		
	135-140			X	X	X	X			
	140-145			X	X	X	X		X	
	145-150			X	X	X	X			
	150-155			X	X	X	X			

TABLE 4-4
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
HOSPITAL ABANDONED UST SITE (ST-C504)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters						Technical Rationale
				TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	Site-Related SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	
CA504-SB01	155-160	1238830.303	844711.606	X	X	X	X	X		Boring was advanced near the former location of CAFB-FAC1400-03 (located near the primary source of contamination - approximately 10 feet north of the center of the UST) in order to quantify the previously detected contamination at this location. Maximum previously detected concentration of TPH-DRO (11,000 mg/kg) at 49.5-50.5 feet bgs. Concentrations of TPH-DRO previously detected to 75.0 feet bgs.
	160-165			X	X	X	X			
	165-170			X	X	X	X			
	170-175			X	X	X	X			
	175-180			X	X	X	X		X	
	180-185			X	X	X	X			
	185-190			X	X	X	X			
	190-195			X	X	X	X			
	195-200			X	X	X	X			
	200-205			X	X	X	X			
	205-210			X	X	X	X			
	210-215			X	X	X	X			
	215-220			X	X	X	X			
	220-225			X	X	X	X			
	225-230			X	X	X	X			
	230-235			X	X	X	X			
	235-240			X	X	X	X	X		
	240-245			X	X	X	X			
	245-250			X	X	X	X			
	250-255			X	X	X	X			
	255-260			X	X	X	X			
	260-265			X	X	X	X			
	265-270			X	X	X	X			
	270-275			X	X	X	X			

TABLE 4-4
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
HOSPITAL ABANDONED UST SITE (ST-C504)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters						Technical Rationale
				TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	Site-Related SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	
CA504-SB02	0-5	1238836.586	844718.411	X	X	X	X			Boring was advanced near the northeastern end of the UST in order to further define the vertical extent of contamination at this location. Adjacent soil boring CAFB-FAC1400-04 had detections of TPH-DRO (2,500 mg/kg) at 22.0 feet bgs.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X	X		
	25-30			X	X	X	X			
	30-35			X	X	X	X			
	35-40			X	X	X	X			
	40-45			X	X	X	X			
	45-50			X	X	X	X			
	50-55			X	X	X	X			
	55-60			X	X	X	X			
	60-65			X	X	X	X			
	65-70			X	X	X	X			
	70-75			X	X	X	X			
	75-80			X	X	X	X	X		
	80-85			X	X	X	X			

TABLE 4-4
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
HOSPITAL ABANDONED UST SITE (ST-C504)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters						Technical Rationale
				TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	Site-Related SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	
CA504-SB03	0-5	1238813.093	844719.474	X	X	X	X			Boring was advanced approximately 7 feet to the southeast of the center of the UST in order to further define the vertical extent of contamination at this location. Adjacent soil boring CAFB-FAC1400-02 had detections of TPH-DRO (6,200 mg/kg) at 20.0 feet bgs.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X	X		
	25-30			X	X	X	X			
	30-35			X	X	X	X			
	35-40			X	X	X	X	X		
	40-45			X	X	X	X			
	45-50			X	X	X	X			
	50-52			X	X	X	X			
CA504-SB04	1-5	1238836.561	844705.925	X	X	X	X			Boring was advanced near the former location of CAFB-FAC1400-09 (approximately 8 feet northeast and 16 feet northwest of the center of the UST) in order to further define the vertical extent of contamination at this location. Maximum previously detected concentration of TPH-DRO (890 mg/kg) at 25-26 feet bgs.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			
	25-30			X	X	X	X	X		
	30-35			X	X	X	X			
	35-40			X	X	X	X			
	40-45			X	X	X	X			
	45-50			X	X	X	X			
CA504-SB05	1-5	1238808.944	844723.882	X	X	X	X			Boring was advanced approximately 14 feet to the southeast of the center of the UST in order to further define the horizontal extent of contamination to the southeast.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			

TABLE 4-4
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
HOSPITAL ABANDONED UST SITE (ST-C504)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters						Technical Rationale
				TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	Site-Related SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	
CA504-SB06	1-5	1238800.764	844716.35	X	X	X	X	X		Boring was advanced on the southeast side of the UST in order to define the horizontal extent of contamination identified in this area.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			
CA504-SB07	1-5	1238841.794	844734.062	X	X	X	X			Boring was advanced approximately 14 feet northeast of the northeast end of the UST in order to further define the horizontal extent of known contamination between the northeast end of the UST and previous soil boring CAFB-FAC1400-08 (previously nondetect).
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			
CA504-SB08	0-5	1238813.282	844699.084	X	X	X	X			Borings were advanced near the southwestern end of the UST in order to determine if contamination is present in this area (previously interpreted as unimpacted).
	5-10			X	X	X	X		X	
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			
CA504-SB09	1-5	1238803.011	844699.85	X	X	X	X			
	5-10			X	X	X	X		X	
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			
CA504-SB10	0-5	1238805.257	844711.581	X	X	X	X			
	5-10			X	X	X	X		X	
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			
	25-30			X	X	X	X			
	30-35			X	X	X	X			
	35-40			X	X	X	X			
	40-45			X	X	X	X			
	45-50			X	X	X	X			
	50-52			X	X	X	X			

TABLE 4-4
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
HOSPITAL ABANDONED UST SITE (ST-C504)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters						Technical Rationale
				TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	Site-Related SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	
CA504-SB11	1-5	1238797.337	844694.035	X	X	X	X			Borings were advanced near the southwestern end of the UST in order to determine if contamination is present in this area (previously interpreted as unimpacted).
	5-10			X	X	X	X		X	
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X		X	
CA504-SB12	10-15	1238843.613	844698.81	X	X	X	X			Borings were advanced on the northwest side of the UST in an attempt to determine the extent of the contamination identified in this area.
	15-20			X	X	X	X			
	20-25			X	X	X	X			
	25-30			X	X	X	X			
	30-35			X	X	X	X			
	35-40			X	X	X	X			
CA504-SB13	10-15	1238843.269	844711.173	X	X	X	X			
	15-20			X	X	X	X	X		
	20-25			X	X	X	X			
	25-30			X	X	X	X			
	30-35			X	X	X	X			
	35-40			X	X	X	X			
CA504-SB14	10-15	1238843.185	844720.746	X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			
	25-30			X	X	X	X			
	30-35			X	X	X	X			
	35-40			X	X	X	X			
	40-45			X	X	X	X			
	45-47			X	X	X	X			
CA504-SB15	10-15	1238829.183	844698.744	X	X	X	X			
	15-20			X	X	X	X		X	
	20-24			X	X	X	X			

TABLE 4-4
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
HOSPITAL ABANDONED UST SITE (ST-C504)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters						Technical Rationale
				TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	Site-Related SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	
CA504-SB16	10-15	1238853.172	844720.955	X	X	X	X		X	Borings were advanced on the northwest side of the UST in an attempt to determine the extent of the contamination identified in this area.
	15-20			X	X	X	X	X		
	20-25			X	X	X	X	X		
	25-30			X	X	X	X	X		
	30-35			X	X	X	X			
	35-40			X	X	X	X			
Totals				**164**	**164**	**164**	**164**	**17**	**9**	

Notes:

[1]Horizontal coordinates are in New Mexico East State Plane, North American Datum of 1983.

[2]TPH-DRO analysis via USEPA Method 8015C

[3]TPH-ORO analysis via USEPA Method 8015C

[4]BTEX + naphthalene analysis via USEPA Method 8260B

[5]Site-related SVOCs analysis via USEPA Method 8270D

[6]Field duplicate samples was collected at a rate of 10% (1 per 10 samples collected) for laboratory analysis.

[7]MS/MSD samples was collected at a rate of 5% (1 per 20 samples collected) for laboratory analysis.

Laboratory analysis completed by EMAX Laboratories, Torrance, California

bgs = below ground surface

mg/kg = milligrams per kilogram

MS/MSD = matrix spike/matrix spike duplicate

RCRA = Resource Conservation and Recovery Act

SVOC = semivolatile organic compound

TPH-DRO = total petroleum hydrocarbons-diesel range organics

TPH-ORO = total petroleum hydrocarbons-oil range organics

USEPA = United States Environmental Protection Agency

UST = underground storage tank

VOC = volatile organic compound

x = sample collected

TABLE 4-5
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters						Technical Rationale
				TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	Site-Related SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	
CA505-SB01	0-5	1239206.862	850901.345	X	X	X	X			Boring was advanced at previous sample location CAFB-FAC3060-03 (located in the primary source area - on the northeast side of the approximate UST excavation) in order to quantify the previously detected contamination at this location. Maximum previously detected concentration of TPH-DRO (5,300 mg/kg) at 9-11 feet bgs.
	5-10			X	X	X	X	X		
	10-15			X	X	X	X	X		
	15-20			X	X	X	X	X		
	20-25			X	X	X	X			
	25-30			X	X	X	X			
CA505-SB02	0-5	1239203.332	850896.899	X	X	X	X	X		Boring was advanced in the center of the approximate UST excavation in order to further define the horizontal extent of contamination between the two areas of known contamination.
	5-10			X	X	X	X	X		
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			
	25-30			X	X	X	X			
CA505-SB03	0-5	1239198.967	850891.773	X	X	X	X			Boring was advanced at previous sample location CAFB-FAC3060-02 (located on the southwest side of the approximate UST excavation) in order to quantify the previously detected contamination at this location. Maximum previously detected concentration of TPH-DRO (1,300 mg/kg) at 9-11 feet bgs.
	5-10			X	X	X	X			
	10-15			X	X	X	X	X		
	15-20			X	X	X	X			
	20-25			X	X	X	X			
	25-30			X	X	X	X			
CA505-SB04	0-4	1239210.978	850897.247	X	X	X	X		X	Boring was advanced in the north corner of the approximate UST excavation in order to further define the horizontal and vertical extent of known contamination near CAFB-FAC3060-03.
	5-9			X	X	X	X			
	10-14			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			
CA505-SB05	0-5	1239202.764	850888.729	X	X	X	X			Boring was advanced in the west corner of the approximate UST excavation in order to further define the horizontal and vertical extent of known contamination near CAFB-FAC3060-02.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			

TABLE 4-5
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters						Technical Rationale
				TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	Site-Related SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	
CA505-SB06	0-5	1239195.716	850896.050	X	X	X	X			Boring was advanced in the south corner of the approximate UST excavation in order to further define the horizontal and vertical extent of known contamination near CAFB-FAC3060-02.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X			
CA505-SB07	0-5	1239204.021	850904.657	X	X	X	X			Boring was advanced in the east corner of the approximate UST excavation in order to further define the horizontal and vertical extent of known contamination near CAFB-FAC3060-03.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-25			X	X	X	X		X	
CA505-SB08	0-5	1239210.308	850890.937	X	X	X	X			Borings were advanced in order to further define the horizontal and vertical extent of potential contamination outside the UST excavation.
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X		X	
	20-25			X	X	X	X			
CA505-SB09	0-5	1239210.843	850904.266	X	X	X	X			
	5-9			X	X	X	X			
	10-14			X	X	X	X			
	15-19			X	X	X	X			
	20-25			X	X	X	X			
CA505-SB10	0-5	1239197.370	850902.384	X	X	X	X		X	
	5-10			X	X	X	X			
	10-15			X	X	X	X			
	15-20			X	X	X	X			
	20-24			X	X	X	X			
			Totals	**53**	**53**	**53**	**53**	**6**	**4**	

TABLE 4-5
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]	Analytical Parameters						Technical Rationale
			TPH-DRO[2]	TPH-ORO[3]	BTEX + Naphthalene[4]	Site-Related SVOCs[5]	Field Duplicate Samples[6]	MS/MSD Samples[7]	

Notes:

[1]Horizontal coordinates are in New Mexico East State Plane, North American Datum of 1983.

[2]TPH-DRO analysis via USEPA Method 8015C

[3]TPH-ORO analysis via USEPA Method 8015C

[4]BTEX + naphthalene analysis via USEPA Method 8260B

[5]Site-related SVOCs analysis via USEPA Method 8270D

[6]Field duplicate samples were collected at a rate of 10% (1 per 10 samples collected) for laboratory analysis.

[7]MS/MSD samples were collected at a rate of 5% (1 per 20 samples collected) for laboratory analysis.

Laboratory analysis completed by EMAX Laboratories, Torrance, Californa.

bgs = below ground surface

mg/kg = milligrams per kilogram

MS/MSD = matrix spike/matrix spike duplicate

SVOC = semivolatile organic compound

TPH-DRO = total petroleum hydrocarbons-diesel range organics

TPH-ORO = total petroleum hydrocarbons-oil range organics

USEPA = United States Environmental Protection Agency

UST = underground storage tank

VOC = volatile organic compound

x = sample collected

TABLE 4-6
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER POL YARD REFUELING AREA (SS-C507)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters									Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX + Naphthalene[5]	Site-Related SVOCs[6]	Lead[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	
CA507-SS01	0-0.5	1239270.938	847748.733	X	X	X	X	X	X	X			Borings were advanced at unpaved locations within the central part of the possible spill and excavation site (west and south of former pumphouse (Building 392) to determine if contamination is present in this area.
CA507-SB01	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SS02	0-0.5	1239224.095	847752.463	X	X	X	X	X	X	X			
CA507-SB02	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X		
	10-15			X	X	X	X	X	X	X			
CA507-SS03	0-0.5	1239164.876	847750.996	X	X	X	X	X	X	X			
CA507-SB03	0.5-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SS04	0-0.5	1239407.946	847791.334	X	X	X	X	X	X	X	X		Borings were advanced at unpaved locations adjacent to fuel unloading ports to determine if contamination is present due to potential surface spills at these locations.
CA507-SB04	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SS05	0-0.5	1239344.349	847791.342	X	X	X	X	X	X	X			
CA507-SB05	0.5-5			X	X	X	X	X	X	X	X		
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SS06	0-0.5	1239206.208	847791.977	X	X	X	X	X	X	X			
CA507-SB06	0.5-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SS07	0-0.5	1239153.947	847790.784	X	X	X	X	X	X	X			Borings were advanced at unpaved locations adjacent to fuel unloading ports to determine if contamination is present due to potential surface spills at these locations.
CA507-SB07	0.5-5			X	X	X	X	X	X	X	X		
	5-8			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			

TABLE 4-6
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER POL YARD REFUELING AREA (SS-C507)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters									Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX + Naphthalene[5]	Site-Related SVOCs[6]	Lead[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	
CA507-SS08	0-0.5	1239301.839	847793.994	X	X	X	X	X	X	X			Boring was advanced to the north of the former location of Building 392, in the area formerly containing aboveground fuel lines, to determine if contamination is present in this area.
CA507-SB08	0.5-5			X	X	X	X	X	X	X	X		
	5-10			X	X	X	X	X	X	X			
	10-13			X	X	X	X	X	X	X			
CA507-SS09	0-0.5	1239254.635	847796.672	X	X	X	X	X	X	X			Boring was advanced in the area formerly occupied by Building 392 to determine if contamination is present in this area.
CA507-SB09	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB10	1-5	1239379.193	847809.921	X	X	X	X	X	X	X			Borings were located adjacent to storm drains under the grates in the concrete trench in the fuel unloading area on the west side of the site to determine if contamination is present in this area.
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB11	1-5	1239179.853	847809.589	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X		X	
CA507-SS12	0-0.5	1239276.571	847851.895	X	X	X	X	X	X	X			Borings were advanced on both ends of the area formerly occupied by an OWS within a concrete vault to determine if contamination is present in this area.
CA507-SB12	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X		
	10-15			X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X			
CA507-SS13	0-0.5	1239253.817	847852.134	X	X	X	X	X	X	X			Borings were advanced on both ends of the area formerly occupied by an OWS within a concrete vault to determine if contamination is present in this area.
CA507-SB13	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X		
	10-15			X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X			
CA507-SS14	0-0.5	1239376.390	848074.957	X	X	X	X	X	X	X			Boring was advanced in the area formerly containing aboveground diesel fuel lines (on the northeast part of the site) to determine if contamination is present in this area.
CA507-SB14	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X		X	

TABLE 4-6
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER POL YARD REFUELING AREA (SS-C507)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters									Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX + Naphthalene[5]	Site-Related SVOCs[6]	Lead[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	
CA507-SB15	1-5	1239376.390	848027.026	X	X	X	X	X	X	X			Borings were advanced in paved areas near the ends of the former diesel pump island to determine if contamination is present in this area.
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X		X	
	15-20			X	X	X	X	X	X	X			
CA507-SB16	1-5	1239348.217	848012.174	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X		X	
CA507-SB17	1-5	1239323.775	848046.505	X	X	X	X	X	X	X			Borings were advanced in paved areas adjacent to the former diesel fuel unloading ports (398 and 399) to determine if contamination is present at these locations.
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB18	1-4	1239270.773	848067.555	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X		X	
CA507-SS19	0-0.5	1239331.202	847980.726	X	X	X	X	X	X	X			Boring was advanced in the unpaved area adjacent to a break in the concrete curb to the west of the diesel fuel pump island to determine if contamination is present in this area.
CA507-SB19	0.5-3			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
CA507-SS20	0-0.5	1239301.409	848095.815	X	X	X	X	X	X	X			Borings were advanced within the approximate location of the previous 400-gallon JP-8 spill and excavation on the east part of the site and north of former Building 390, to determine if contamination is present in this area.
CA507-SB20	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SS21	0-0.5	1239319.115	848095.815	X	X	X	X	X	X	X			
CA507-SB21	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X			

TABLE 4-6
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER POL YARD REFUELING AREA (SS-C507)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters									Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX + Naphthalene[5]	Site-Related SVOCs[6]	Lead[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	
CA507-SS22	0-0.5	1239266.807	848095.354	X	X	X	X	X	X	X	X		Borings were advanced in the area formerly occupied by aboveground fuel lines in the vicinity of the former pumphouse (Building 390) to determine if contamination is present in this area.
CA507-SB22	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SS23	0-0.5	1239241.133	848096.836	X	X	X	X	X	X	X			Borings were advanced in the area formerly occupied by aboveground fuel lines in the vicinity of the former pumphouse (Building 390) to determine if contamination is present in this area.
CA507-SB23	0.5-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SS24	0-0.5	1239264.174	848130.424	X	X	X	X	X	X	X	X		Borings were advanced in the area formerly occupied by aboveground fuel lines in the vicinity of the former pumphouse (Building 390) to determine if contamination is present in this area.
CA507-SB24	0.5-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SS25	0-0.5	1239226.329	848095.825	X	X	X	X	X	X	X			Boring was advanced in the center of the area formerly occupied by the pumphouse (Building 390) to determine if contamination is present in this area.
CA507-SB25	0.5-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SS26	0-0.5	1239286.292	847974.296	X	X	X	X	X	X	X			Boring was advanced adjacent to an underground vault constructed at the low point in the JP-4/JP-8/MOGAS lines to determine if contamination is present in this area.
CA507-SB26	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X		
	10-15			X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X			

TABLE 4-6
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER POL YARD REFUELING AREA (SS-C507)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters									Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX + Naphthalene[5]	Site-Related SVOCs[6]	Lead[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	
CA507-SB27	1-5	1239211.998	848026.333	X	X	X	X	X	X	X			Borings were advanced in paved areas near the ends of the former JP-4/JP-8 pump islands to determine if contamination is present in this area.
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB28	1-5	1239215.959	848061.431	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X		X	
CA507-SB29	1-5	1239187.666	848011.473	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB30	1-5	1239187.666	848045.155	X	X	X	X	X	X	X			Borings were advanced in paved areas near the ends of the former JP-4/JP-8 pump islands to determine if contamination is present in this area.
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X		X	
CA507-SB31	0.5-5	1239204.948	847999.035	X	X	X	X	X	X	X	X		Boring was advanced adjacent to the concrete pad underneath the former JP-4/JP-8 pump islands to determine if contamination is present due to potential surface spills at this location (southeast part of the site).
	5-10			X	X	X	X	X	X	X			
CA507-SS32	0-0.5	1239179.097	848078.400	X	X	X	X	X	X	X			Borings were advanced on both ends of the concrete OWS vault to determine if contamination is present in this area.
CA507-SB32	0.5-4			X	X	X	X	X	X	X			
	5-9			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X			
CA507-SS33	0-0.5	1239154.585	848078.400	X	X	X	X	X	X	X			
CA507-SB33	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X			

TABLE 4-6
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER POL YARD REFUELING AREA (SS-C507)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters									Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX + Naphthalene[5]	Site-Related SVOCs[6]	Lead[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	
CA507-SS34	0-0.5	1239163.982	848117.059	X	X	X	X	X	X	X			Boring was advanced to the east of the 55 gallon drum containment area (in the vicinity of an underground MOGAS line) to determine if contamination is present in this area.
CA507-SB34	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X		
	10-15			X	X	X	X	X	X	X			
CA507-SS35	0-0.5	1239093.834	848103.406	X	X	X	X	X	X	X			Boring was advanced in an unpaved area at the former MOGAS unloading and dispensing area to determine if contamination is present in this area (potential surface spill area).
CA507-SB35	0.5-4			X	X	X	X	X	X	X	X		
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X			
CA507-SS36	0-0.5	1239101.725	847940.234	X	X	X	X	X	X	X			Boring was advanced at the end of the concrete drainage trench on the south part of the site to determine if contamination from runoff is present in this area.
CA507-SB36	0.5-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
CA507-SS37	0-0.5	1239095.988	848033.386	X	X	X	X	X	X	X			Boring was advanced at a break in the curb to the west of the former MOGAS unloading and dispensing area to determine if contamination from runoff is present in this area.
CA507-SB37	0.5-5			X	X	X	X	X	X	X	X		
	5-10			X	X	X	X	X	X	X			
CA507-SS38	0-0.5	1239384.971	847749.958	X	X	X	X	X	X	X			Borings were advanced at equally spaced locations to the west of the JP-4/JP-8/MOGAS unloading ports (northwest part of the site) to determine if surface spills occurred in this area.
CA507-SB38	0.5-4			X	X	X	X	X	X	X	X		
	5-9			X	X	X	X	X	X	X			
	10-14			X	X	X	X	X	X	X			
CA507-SS39	0-0.5	1239329.62	847751.094	X	X	X	X	X	X	X			
CA507-SB39	0.5-5			X	X	X	X	X	X	X	X		
CA507-SB39	5-10			X	X	X	X	X	X	X			

TABLE 4-6
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER POL YARD REFUELING AREA (SS-C507)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters									Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX + Naphthalene[5]	Site-Related SVOCs[6]	Lead[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	
CA507-SB40	5-10	1239285.861	847816.046	X	X	X	X	X	X	X	X		Borings were advanced adjacent to the multiple underground fuel lines that run from Building 392 to Building 390 (central part of the site).
	10-15			X	X	X	X	X	X	X			
CA507-SB41	5-10	1239288.079	847894.552	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB42	5-10	1239288.357	847949.961	X	X	X	X	X	X	X	X		
	10-15			X	X	X	X	X	X	X			
CA507-SB43	5-10	1239291.347	848031.953	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB44	5-10	1239368.714	847853.203	X	X	X	X	X	X	X			Boring was advanced adjacent to the underground OWS elbows (west part of the site).
	10-15			X	X	X	X	X	X	X			
CA507-SB45	5-10	1239175.823	847850.435	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB46	5-10	1239378.437	848044.477	X	X	X	X	X	X	X			Boring was advanced adjacent to an underground diesel fuel line that runs from the former diesel fuel unloading port to the dispensers and diesel fuel line canopy (northeast part of the site).
	10-15			X	X	X	X	X	X	X			
CA507-SB47	5-10	1239348.017	848044.283	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB48	1-5	1239327.642	848002.317	X	X	X	X	X	X	X			Boring was advanced on the southwest corner of the concrete pad underneath the former diesel fuel island (east-central part of the site).
	5-10			X	X	X	X	X	X	X		X	
CA507-SB49	0.5-4	1239376.512	848121.52	X	X	X	X	X	X	X	X		Borings were advanced at former elbow locations in the aboveground diesel fuel lines (east-central part of the site) to determine if surface spills occurred in this area.
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X			
CA507-SS50	0-0.5	1239290.566	848110.694	X	X	X	X	X	X	X			
CA507-SB50	0.5-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			

TABLE 4-6
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER POL YARD REFUELING AREA (SS-C507)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters									Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX + Naphthalene[5]	Site-Related SVOCs[6]	Lead[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	
CA507-SS51	0-0.5	1239290.974	848140.583	X	X	X	X	X	X	X			Borings were advanced at former elbow locations in the aboveground diesel fuel lines (east-central part of the site) to determine if surface spills occurred in this area. Boring CA507-SS/SB-50 will also be used to determine if contamination is present to the east of the previous 400-gallon JP-8 spill and excavation located north of Building 390.
CA507-SB51	0.5-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SS52	0-0.5	1239291.432	848081.844	X	X	X	X	X	X	X			Boring was advanced to the west of the previous 400-gallon JP-8 spill and excavation located north of Building 390 to determine if contamination is present in this area.
CA507-SB52	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB53	1-5	1239243.073	848032.956	X	X	X	X	X	X	X			Boring was advanced adjacent to the concrete pad underneath the former JP-4/JP-8 pump islands to determine if contamination is present due to potential surface spills at these locations (southeast part of the site).
	5-10			X	X	X	X	X	X	X			
CA507-SS54	0-0.5	1239199.628	847964.516	X	X	X	X	X	X	X			Boring was advanced at the end of the concrete drainage swale to the west of the JP-4/JP-8 pump islands to determine if contamination is present in this area.
CA507-SB54	1-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X		X	
CA507-SB55	1-5	1239167.392	848033.261	X	X	X	X	X	X	X			Borings were advanced at paved and unpaved locations adjacent to the concrete pad underneath the former JP-4/JP-8 pump islands to determine if contamination is present due to potential surface spills at these locations (southeast part of the site).
	5-10			X	X	X	X	X	X	X			
CA507-SS56	0-0.5	1239210.117	848083.001	X	X	X	X	X	X	X			
CA507-SB56	0.5-4			X	X	X	X	X	X	X	X		
	5-10			X	X	X	X	X	X	X			

TABLE 4-6
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER POL YARD REFUELING AREA (SS-C507)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters									Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX + Naphthalene[5]	Site-Related SVOCs[6]	Lead[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	
CA507-SS57	0-0.5	1239104.723	848094.68	X	X	X	X	X	X	X			Borings were advanced at equally spaced locations around the former MOGAS unloading and dispensing area.
CA507-SB57	0.5-4			X	X	X	X	X	X	X	X		
	5-10			X	X	X	X	X	X	X			
CA507-SB58	1-4	1239090.51	848077.095	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
CA507-SS59	0-0.5	1239086.108	848110.874	X	X	X	X	X	X	X			
CA507-SB59	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
CA507-SS60	0-0.5	1239105.398	848115.598	X	X	X	X	X	X	X			Borings were advanced at equally spaced locations around the former MOGAS unloading and dispensing area.
CA507-SB60	0.5-4			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X			
CA507-SS61	0-0.5	1239138.666	847924.552	X	X	X	X	X	X	X			Boring was advanced north of the concrete drainage trench on the south part of the site.
CA507-SB61	0.5-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X		X	
CA507-SS62	0-0.5	1239054.269	848034.947	X	X	X	X	X	X	X			Borings were advanced at the discolored low points where surface runoff may have pooled.
CA507-SB62	0.5-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X		X	
CA507-SS63	0-0.5	1239042.143	847991.517	X	X	X	X	X	X	X			
CA507-SB63	0.5-5			X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X		X	
CA507-SB64	5-10	1239445.595	848082.757	X	X	X	X	X	X	X	X		Borings were advanced at elbow locations in the underground diesel lines (northeast part of the site) that run from the northeastern former diesel fuel ASTs to the former dispensors and diesel fuel line canopy to determine if contamination is present in this area.
	10-15			X	X	X	X	X	X	X			
CA507-SB65	5-10	1239425.337	848083.532	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X		X	
CA507-SB66	5-10	1239392.564	848065.46	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB67	5-10	1239391.273	848090.89	X	X	X	X	X	X	X	X		
	10-15			X	X	X	X	X	X	X			

TABLE 4-6
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER POL YARD REFUELING AREA (SS-C507)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters									Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX + Naphthalene[5]	Site-Related SVOCs[6]	Lead[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	
CA507-SB68	5-10	1239347.529	848071.009	X	X	X	X	X	X	X			Borings were advanced along the underground diesel lines between the former diesel fuel line canopy (northeast part of the site) and former diesel unloading ports 398 and 399 to determine if contamination is present in this area.
	10-15			X	X	X	X	X	X	X			
CA507-SB69	5-10	1239326.397	848082.255	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X			
CA507-SB70	5-10	1239270.666	847791.541	X	X	X	X	X	X	X			Borings will be advanced at elbow locations in the underground MOGAS and JP-8 lines around the former location of Building 392 to determine if contamination is present in this area.
	10-15			X	X	X	X	X	X	X			
CA507-SB71	5-10	1239295.533	847812.429	X	X	X	X	X	X	X			
	10-13			X	X	X	X	X	X	X			
CA507-SB72	5-10	1239212.758	848115.49	X	X	X	X	X	X	X			Boring was advanced at an elbow location in an underground JP-8 line that runs from the former pump house (Building 390) and JP-4/JP-8 pump islands to determine if contamination is present in this area.
	10-15			X	X	X	X	X	X	X			
CA507-SB73	5-10	1239116.384	848119.389	X	X	X	X	X	X	X			Boring was advanced at an elbow location in an underground MOGAS line that runs from the former pump house (Building 390) and the former MOGAS unloading and dispensing area (southeast part of the site) to determine if contamination is present in this area.
	10-15			X	X	X	X	X	X	X			
CA507-SB74	5-10	1239291.967	848049.058	X	X	X	X	X	X	X	X		Boring was advanced adjacent to the multiple underground fuel lines that run from Building 392 to Building 390 (central part of the site).
	10-15			X	X	X	X	X	X	X			
			Totals	**234**	**234**	**234**	**234**	**234**	**234**	**234**	**24**	**13**	

TABLE 4-6
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
FORMER POL YARD REFUELING AREA (SS-C507)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]	Analytical Parameters									Technical Rationale
			TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	BTEX + Naphthalene[5]	Site-Related SVOCs[6]	Lead[7]	PCBs[8]	Field Duplicate Samples[9]	MS/MSD Samples[10]	

Notes:

[1]Horizontal coordinates are in New Mexico East State Plane, North American Datum of 1983.
[2]TPH-DRO analysis via USEPA Method 8015C
[3]TPH-GRO analysis via USEPA Method 8015C
[4]TPH-ORO analysis via USEPA Method 8015C
[5]BTEX + naphthalene analysis via USEPA Method 8260B
[6]Site-related SVOCs analysis via USEPA Method 8270D
[7]Lead analysis via USEPA Method 6020A.
[8]PCBs analysis via USEPA Method 8082A
[9]Field duplicate samples were collected at a rate of 10 percent for laboratory analysis.
[10]MS/MSD samples were collected at a rate of 5 percent for laboratory analysis.
Laboratory analysis completed by EMAX Laboratories, Torrance, California

bgs = below ground surface
EPA = Environmental Protection Agency
JP = jet propellant
MOGAS = motor gasoline
MS/MSD = matrix spike/matrix spike duplicate
OWS = oil/water separator
PCB = polychlorinated biphenyl
RCRA = Resource Conservation and Recovery Act
SVOC = semivolatile organic compound
TPH-DRO = total petroleum hydrocarbons-diesel range organics
TPH-GRO = total petroleum hydrocarbons-gasoline range organics
TPH-ORO = total petroleum hydrocarbons-oil range organics
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
x = sample collected

TABLE 4-7
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
SURFACE DISPOSAL AREA (SD-C508)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters												Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	VOCs[5]	SVOCs[6]	Pesticides[7]	RCRA Metals[8]	PCBs[9]	Explosives[10]	Dioxins/Furans[11]	Field Duplicate Samples[12]	MS/MSD Samples[13]	
CA508-SS01	0-0.5	1228507.228	851294.596	X	X	X	X	X	X	X	X	X	X	X		Boring was advanced in the area of visible burned surface debris (on the southwest part of the site) to determine if contamination is present in this area.
CA508-SB01	0.5-4			X	X	X	X	X	X	X	X	X	X	X		
	5-9			X	X	X	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X	X	X	X			
CA508-SS02	0-0.5	1228620.071	851326.052	X	X	X	X	X	X	X	X	X	X			Boring was advanced near the middle of the northern part of the site to determine if contamination is present in this area.
CA508-SB02	0.5-3			X	X	X	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X	X	X	X			
CA508-SS03	0-0.5	1228568.421	851372.417	X	X	X	X	X	X	X	X	X	X	X		Boring was advanced near the middle of the eastern part of the site to determine if contamination is present in this area.
CA508-SB03	0.5-5			X	X	X	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X	X	X	X			
CA508-SS04	0-0.5	1228552.155	851273.669	X	X	X	X	X	X	X	X	X	X			Boring was advanced near the middle of the western part of the site to determine if contamination is present in this area.
CA508-SB04	0.5-4			X	X	X	X	X	X	X	X	X	X			
	5-9			X	X	X	X	X	X	X	X	X	X			
	10-14			X	X	X	X	X	X	X	X	X	X			
CA508-SS05	0-0.5	1228490.066	851350.786	X	X	X	X	X	X	X	X	X	X	X		Boring was advanced near the middle of the southeastern quarter of the site to determine if contamination is present in this area.
CA508-SB05	0.5-5			X	X	X	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X	X	X	X			

TABLE 4-7
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
SURFACE DISPOSAL AREA (SD-C508)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters												Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	VOCs[5]	SVOCs[6]	Pesticides[7]	RCRA Metals[8]	PCBs[9]	Explosives[10]	Dioxins/Furans[11]	Field Duplicate Samples[12]	MS/MSD Samples[13]	
CA508-SS06	0-0.5	1228664.916	851322.587	X	X	X	X	X	X	X	X	X	X			Borings was advanced approximately 20 feet outside the perimeter of the mounded area with sparse vegetation to determine if contamination extends outside of the mounded area.
CA508-SB06	0.5-4			X	X	X	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X	X	X		X	
CA508-SS07	0-0.5	1228570.901	851234.753	X	X	X	X	X	X	X	X	X	X			
CA508-SB07	0.5-5			X	X	X	X	X	X	X	X	X	X			
	5-9			X	X	X	X	X	X	X	X	X	X			
CA508-SS08	0-0.5	1228530.525	851398.286	X	X	X	X	X	X	X	X	X	X			
CA508-SB08	0.5-5			X	X	X	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X	X	X		X	
CA508-SS09	0-0.5	1228459.083	851267.988	X	X	X	X	X	X	X	X	X	X			
CA508-SB09	0.5-5			X	X	X	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X	X	X			
			Totals	**33**	**33**	**33**	**33**	**33**	**33**	**33**	**33**	**33**	**33**	**4**	**2**	

TABLE 4-7
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
SURFACE DISPOSAL AREA (SD-C508)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]	Analytical Parameters												Technical Rationale
			TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	VOCs[5]	SVOCs[6]	Pesticides[7]	RCRA Metals[8]	PCBs[9]	Explosives[10]	Dioxins/Furans[11]	Field Duplicate Samples[12]	MS/MSD Samples[13]	

Notes:
[1]Horizontal coordinates are in New Mexico East State Plane, North American Datum of 1983.
[2]TPH-DRO analysis via USEPA Method 8015C
[3]TPH-GRO analysis via USEPA Method 8015C
[4]TPH-ORO analysis via USEPA Method 8015C
[5]VOCs analysis via USEPA Method 8260B
[6]SVOCs analysis via USEPA Method 8270D
[7]Pesticides analysis via Method 8081B
[8]Metals analysis via USEPA Method 6020A and USEPA Method 7471B (Mercury)
[9]PCBs analysis via USEPA Method 8082A
[10]Explosives analysis via USEPA Method 8330
[11]Dioxins/furans analysis via USEPA Method 8290
[12]Field duplicate samples were collected at a rate of 10% (1 per 10 samples collected) for laboratory analysis.
[13]MS/MSD samples were collected at a rate of 5% (1 per 20 samples collected) for laboratory analysis.
Laboratory analysis completed by EMAX Laboratories, Torrance, California
bgs = below ground surface
MS/MSD = matrix spike/matrix spike duplicate
PCB = polychlorinated biphenyl
RCRA = Resource Conservation and Recovery Act
SVOC = semivolatile organic compound
TPH-DRO = total petroleum hydrocarbons-diesel range organics
TPH-GRO = total petroleum hydrocarbons-gasoline range organics
TPH-ORO = total petroleum hydrocarbons-oil range organics
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
x = sample collected

TABLE 4-8
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters										Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	VOCs[5]	SVOCs[6]	Pesticides[7]	RCRA Metals[8]	PCBs[9]	Field Duplicate Samples[10]	MS/MSD Samples[11]	
CA129-SB01	0-4	1238544.526	849438.747	X	X	X	X	X	X	X	X			Boring was advanced in the northern part of the leach field to determine if contamination is present in this area.
	5-9			X	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X	X			
	15-18			X	X	X	X	X	X	X	X		X	
CA129-SB02	0-5	1238556.616	849454.608	X	X	X	X	X	X	X	X			
	5-10			X	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X	X			
CA129-SB03	0-5	1238539.115	849456.368	X	X	X	X	X	X	X	X	X		Boring was advanced near the center of the leach field to determine if contamination is present in this area.
	5-10			X	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X	X			
	20-25			X	X	X	X	X	X	X	X			
CA129-SB04	0-5	1238511.501	849457.072	X	X	X	X	X	X	X	X			Boring was advanced in the south corners of the leach field to determine if contamination is present in this area.
	5-9			X	X	X	X	X	X	X	X	X		
	15-20			X	X	X	X	X	X	X	X			
CA129-SB05	0-5	1238533.662	849483.994	X	X	X	X	X	X	X	X	X		
	5-10			X	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X	X			
CA129-SB06	0-3	1238554.72	849443.36	X	X	X	X	X	X	X	X			Boring was advanced near the intersection of the drain pipe and the leach field (i.e., distribution box) to determine if contamination is present in this area.
	5-10			X	X	X	X	X	X	X	X	X		
	10-15			X	X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X	X			
CA129-SB07	0-5	1235891.47	849413.23	X	X	X	X	X	X	X	X			Boring was completed near the center of the drain pipe between the former location of the leach field and the cleanout to determine if the drain pipe leaked.
	5-10			X	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X	X		X	

TABLE 4-8
SUMMARY OF SOIL SAMPLES FOR CHEMICAL ANALYSIS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

Sample Location Identification	Approximate Sample Depth Interval (feet bgs)	Sample Coordinates (Northing, Easting)[1]		Analytical Parameters										Technical Rationale
				TPH-DRO[2]	TPH-GRO[3]	TPH-ORO[4]	VOCs[5]	SVOCs[6]	Pesticides[7]	RCRA Metals[8]	PCBs[9]	Field Duplicate Samples[10]	MS/MSD Samples[11]	
CA129-SB08	0-4	1238628.03	849382.88	X	X	X	X	X	X	X	X			Boring was completed near the former location of the cleanout to determine if contamination is present in this area.
	5-10			X	X	X	X	X	X	X	X			
	10-15			X	X	X	X	X	X	X	X			
	15-20			X	X	X	X	X	X	X	X		X	
CA129-SB09	0-4	1238568.704	849413.685	X	X	X	X	X	X	X	X			Shallow borings completed to assess the potential impacts to soils from various types of waste dumped in these areas.
CA129-SB10	0-3	1238548.914	849445.972	X	X	X	X	X	X	X	X			
			Totals	**34**	**34**	**34**	**34**	**34**	**34**	**34**	**34**	**4**	**3**	

Notes:

[1]Horizontal coordinates are in New Mexico East State Plane, North American Datum of 1983.
[2]TPH-DRO analysis via USEPA Method 8015C
[3]TPH-GRO analysis via USEPA Method 8015C
[4]TPH-ORO analysis via USEPA Method 8015C
[5]VOCs analysis via USEPA Method 8260B
[6]SVOCs analysis via USEPA Method 8270D
[7]Pesticides analysis via Method 8081B
[8]Metals analysis via USEPA Method 6020A and USEPA Method 7471B (Mercury)
[9]PCBs analysis via USEPA Method 8082A
[10]Field duplicate samples was collected at a rate of 10% (1 per 10 samples collected) for laboratory analysis.
[11]MS/MSD samples was collected at a rate of 5% (1 per 20 samples collected) for laboratory analysis.
Laboratory analysis to be completed by EMAX Laboratories, Torrance, California

bgs = below ground surface
MS/MSD = matrix spike/matrix spike duplicate
PCB = polychlorinated biphenyl
RCRA = Resource Conservation and Recovery Act
SVOC = semivolatile organic compound
TPH-DRO = total petroleum hydrocarbons-diesel range organics
TPH-GRO = total petroleum hydrocarbons-gasoline range organics
TPH-ORO = total petroleum hydrocarbons-oil range organics
USEPA = United States Environmental Protection Agency
VOC = volatile organic compound
x = sample collected

SOIL SAMPLING LOCATIONS
FORMER AEROSPACE GROUND EQUIPMENT (AGE)
DISPATCH FACILITY SPILLS SITE (SS-C501)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 05/01/13	PROJECT NO. 16170622	FIG. NO. 4-1
CHK'D. BY: CSA	REVISION: 0		

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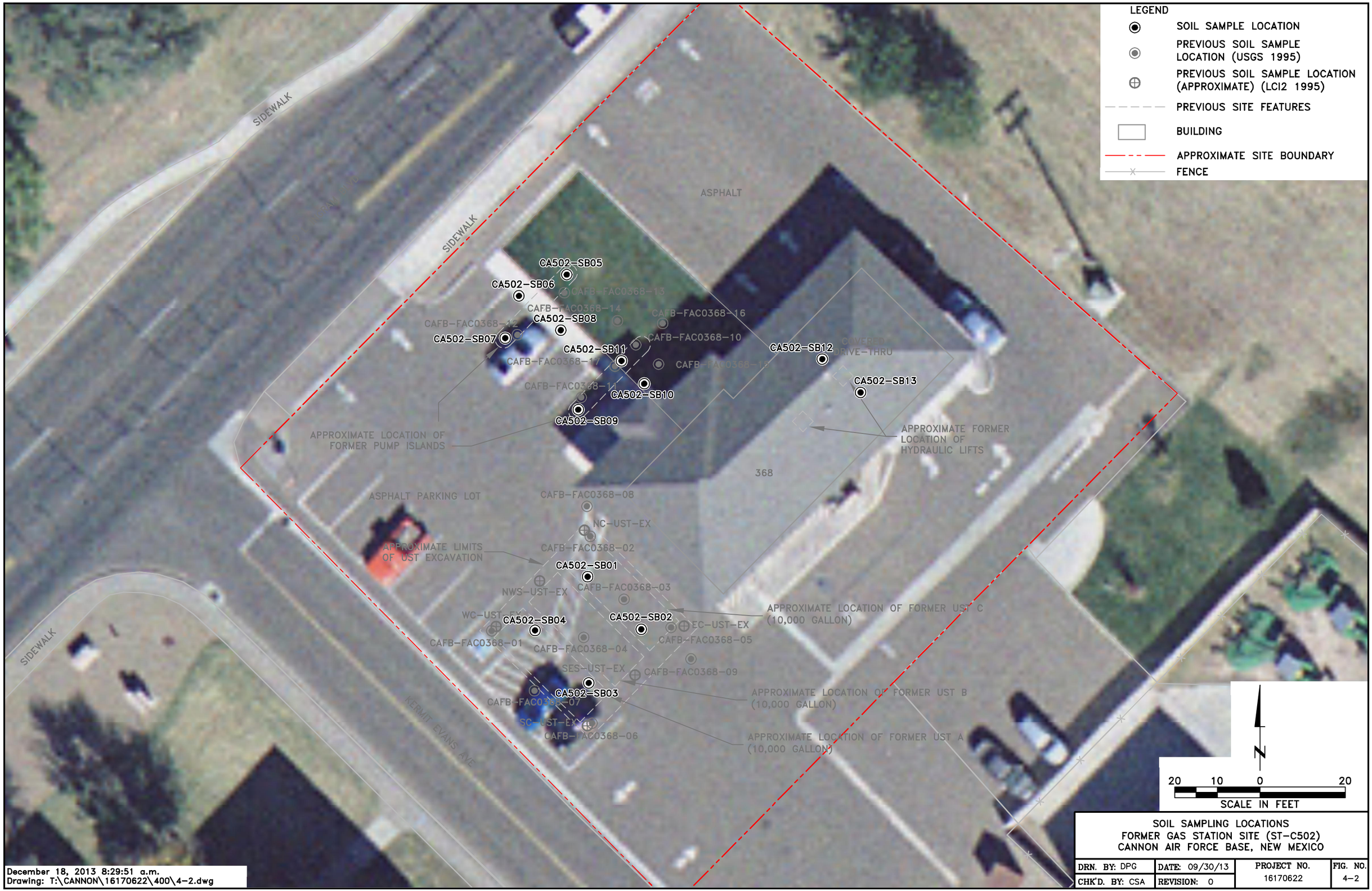

SOIL SAMPLING LOCATIONS
FORMER GAS STATION SITE (ST-C502)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 4-2
CHK'D. BY: CSA	REVISION: 0		

SOIL SAMPLING LOCATIONS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 09/30/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	4-3

December 18, 2013 8:27:39 a.m.
Drawing: T:\CANNON\16170622\400\4-3.dwg

SOIL SAMPLING LOCATIONS
HOSPITAL ABANDONED UST SITE (ST-C504)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 05/01/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	4-4

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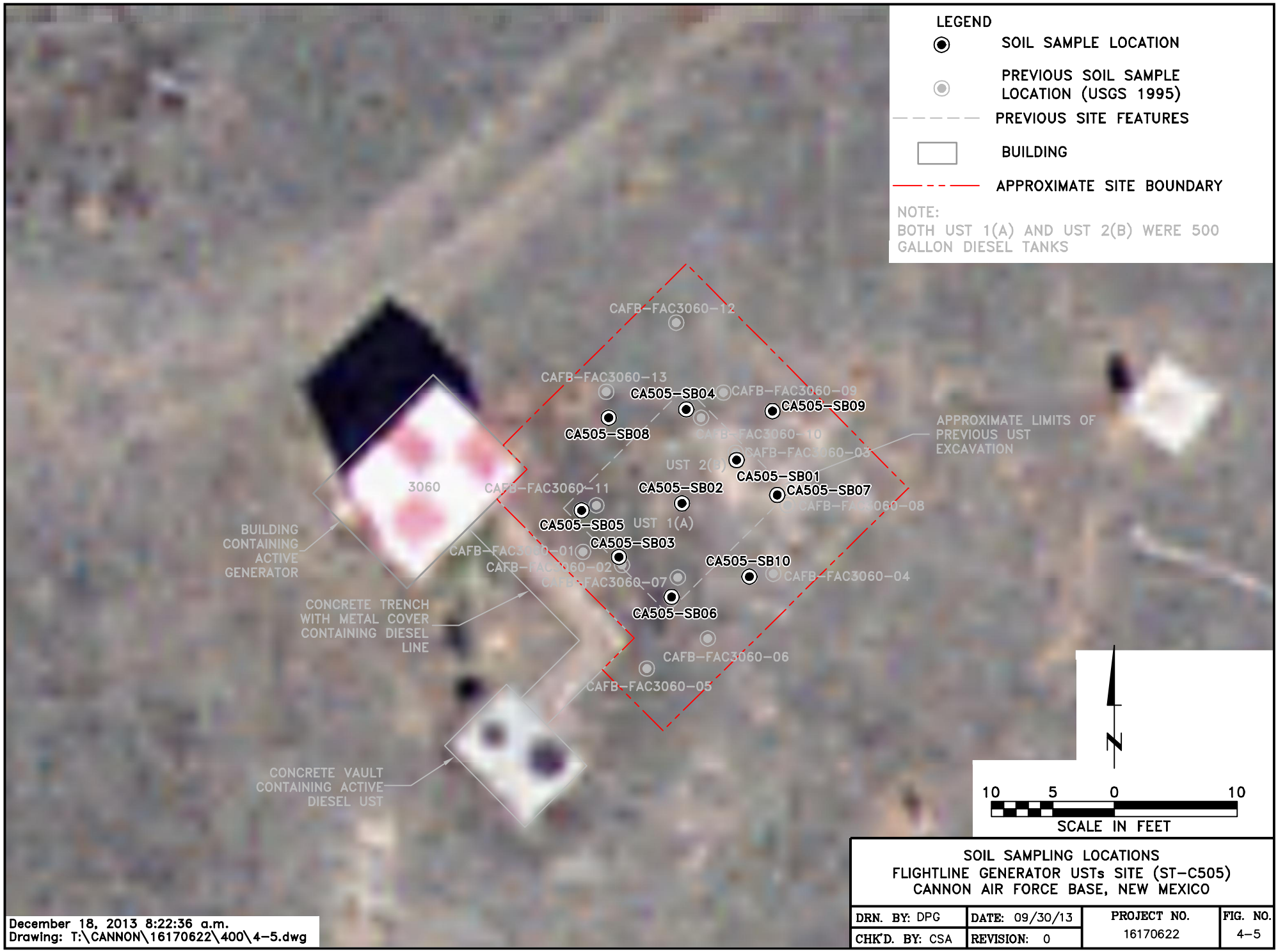

SOIL SAMPLING LOCATIONS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 4-5
CHK'D. BY: CSA	REVISION: 0		

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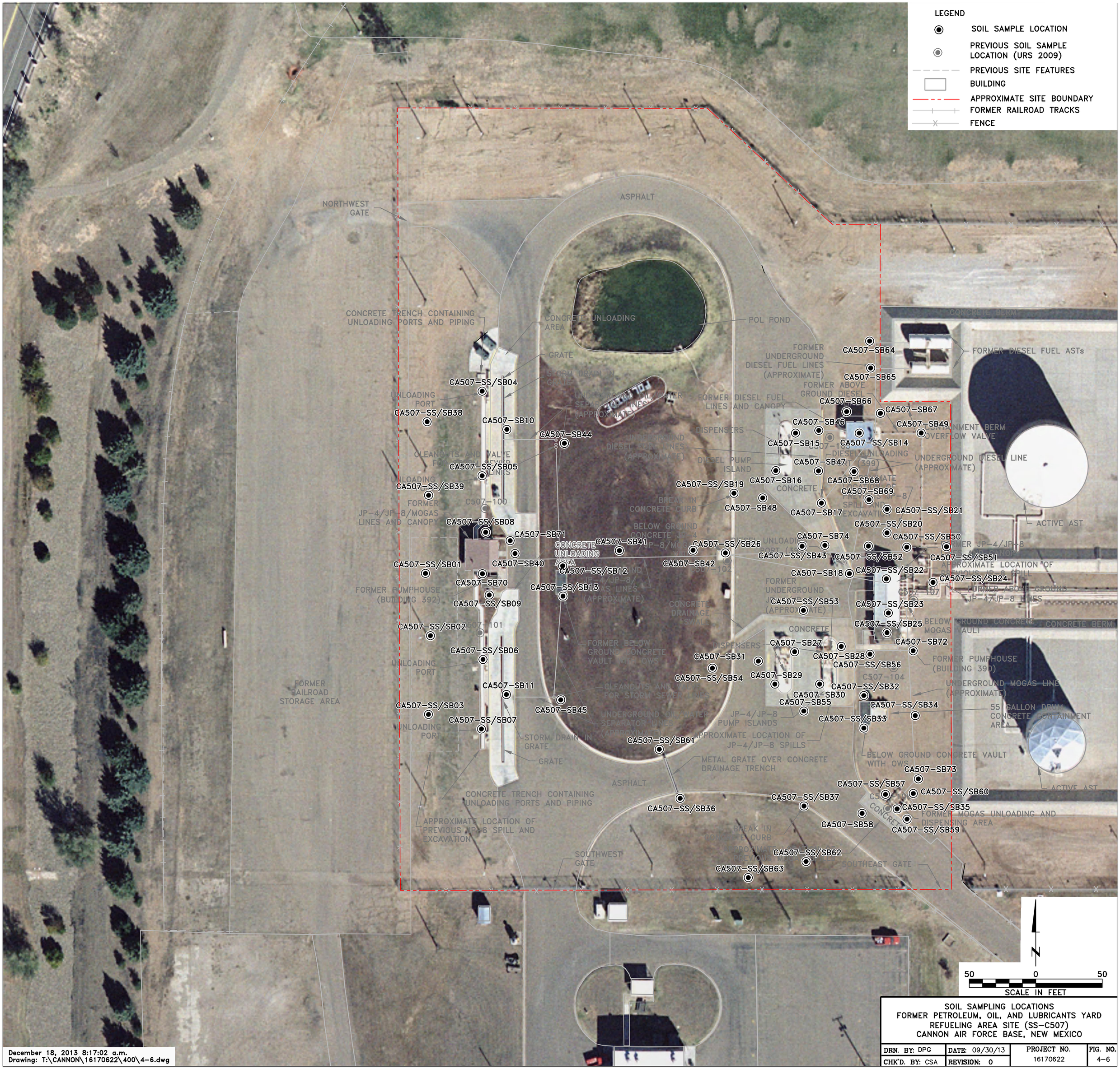
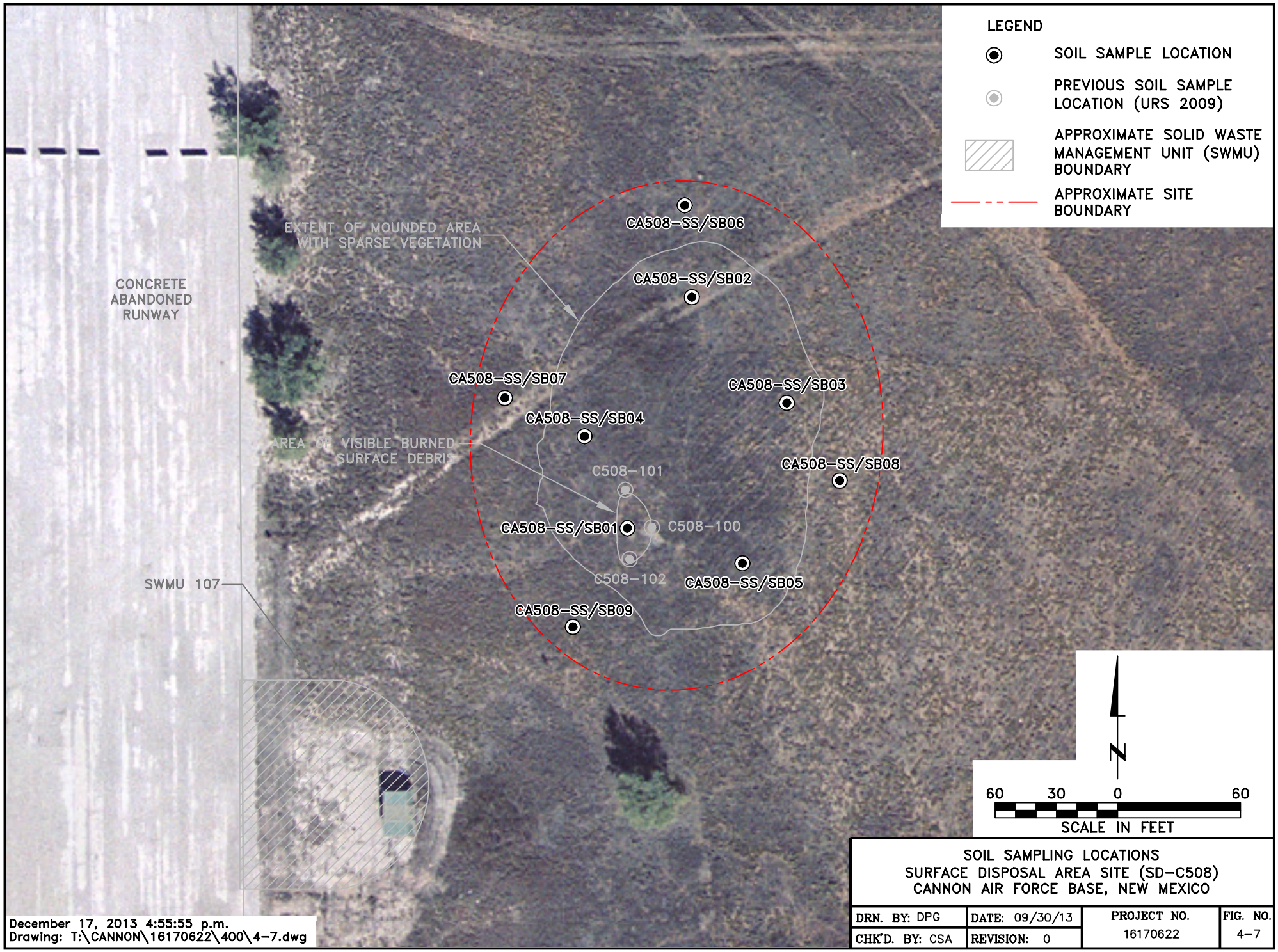


SOIL SAMPLING LOCATIONS
FORMER PETROLEUM, OIL, AND LUBRICANTS YARD
REFUELING AREA SITE (SS-C507)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 09/30/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	4-6

December 18, 2013 8:17:02 a.m.
Drawing: T:\CANNON\16170622\400\4-6.dwg



SOIL SAMPLING LOCATIONS
SURFACE DISPOSAL AREA SITE (SD-C508)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: DPG	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 4-7
CHK'D. BY: CSA	REVISION: 0		

December 17, 2013 4:52:43 p.m.
Drawing: T:\CANNON\16170622\400\4-8.dwg

LEGEND

- SOIL SAMPLE LOCATION
- PREVIOUS SOIL SAMPLE LOCATION (PARALLAX 2000)
- PREVIOUS SITE FEATURES
- APPROXIMATE SITE BOUNDARY
- FENCE

NOTE:
SAMPLES 244SS0-07 AND 244SS0-08 ARE APPROXIMATE

N

20 10 0 20
SCALE IN FEET

SOIL SAMPLING LOCATIONS
WASTE OIL STORAGE FACILITY 244 AND LEACH FIELD SITE (TA/AS-C129) (SWMU129)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 4-8
CHK'D. BY: CSA	REVISION: 0		

5.1 SUMMARY OF BORING LOGS

Geologic materials encountered during subsurface soil sampling were described by a geologist on boring logs, included in **Appendix B**. A general description of geologic materials encountered at each site is provided in the following sections.

5.1.1 Former AGE Dispatch Facility Spills Site (SS-C501)

Geologic materials logged at this site consisted of fill material from the surface to 15 feet bgs. The fill material composed of primarily silts and clays that contained trace amounts of sand and gravel and occasional caliche nodules ranging in size from approximately 0.1 to 1 inch in diameter. Caliche nodules were common from approximately 0.4 foot to 10 feet bgs. No distinct caliche layers were observed in the subsurface at SS-C501.

5.1.2 Former Gas Station Site (ST-C502)

Geologic materials logged at this site consisted of fill material overlying native materials derived from or included in the Ogallala Formation. The fill material composed of primarily silts and clays that contained some sand and gravel, small caliche nodules, and concrete rubble. Fill material was present from ground surface (or directly below the pavement) to depths of 2.5 to 14 feet bgs. At soil borings SB01 through SB04 (within the former UST excavation), the fill was the thickest (approximately 14 feet thick), which is consistent with the depth of excavation during removal of the USTs. Native soils consisted of silt and sand that occasionally contained caliche nodules (caliche nodules ranged in size from sand to gravel-sized). Caliche nodules were common from approximately 5.5 to 30 feet bgs. A hard zone of caliche was encountered from 21.8 to 22.2 feet bgs at CA502-SB04, and from 25.0 to 26.0 feet bgs in CA502-SB11.

5.1.3 Base Support/Operations Generator Former UST Site (ST-C503)

Geologic materials at this site consisted of fill material overlying native materials derived from or included in the Ogallala formation. The fill material was composed of primarily silts that contained trace amounts of white caliche nodules ranging in size from approximately 0.1 to 1 inch in diameter and concrete rubble. Fill material was present from ground surface to depths of 5 to 9.3 feet bgs. At soil borings SB03, SB04, SB05, and SB07 (within the presumed former UST excavation), the fill was the thickest (approximately 8 to 9 feet thick), which is consistent with the documented excavation and over excavation depths reached during removal of the USTs. Native soils consisted of silts and sand that contained small angular caliche nodules throughout. A hard zone of caliche was encountered in two intervals (9.3 to 10.4 feet and 14.2 to 14.5 feet bgs) at CA503-SB04.

5.1.4 Hospital Abandoned UST Site (ST-C504)

Geologic materials at this site consisted of fill material overlying native materials derived from or included in the Ogallala formation. The fill material was composed of silts and sands that

occasionally contained white caliche nodules ranging in size from approximately 0.1 to 1 inch in diameter. Fill material was present from ground surface to depths of 4.5 to 16 feet bgs. Native soils consisted of silts and sands. Sand was encountered at all boring locations at depths of 16 to 20 feet bgs, and was present exclusively to the total depth of each boring (up to 276 feet bgs at CA504-SB01). Discontinuous, sporadic, weathered caliche nodules (less than 2 inches in diameter) were common at various depths throughout the sand. No distinct caliche layers were observed in the subsurface at ST-C504. At soil boring CA504-SB01, a 2-foot layer of cemented sandstone was encountered at 213 feet bgs. Also at soil boring CA504-SB01, a 2-foot layer of silt/silty sand was encountered at 265 feet bgs. Based on laboratory analytical data, these layers appear to be restricting vertical migration of contaminants (e.g., TPH-DRO).

5.1.5 Flightline Generator USTs Site (ST-C505)

Geologic materials logged at this site consisted of fill material overlying native materials derived from or included in the Ogallala Formation. Fill material was composed of sand and silt that occasionally contained various quantities of gravel. Fill material was present from ground surface to depths of 12 to 15.5 feet bgs. At soil borings completed within the approximate limits of the previous UST excavation (soil borings SB01 through SB07), the thickness of fill encountered (13 to 15 feet thick) is consistent with the documented excavations depths reach during excavation and removal of the USTs, which confirms the limits of excavation. Native soils consisted of silts and sands that occasionally contained various amounts of sand or trace amounts of gravel. A hard zone of caliche was encountered from 17.3 to 18.5 feet bgs in CA505-SB09.

5.1.6 Former POL Yard Refueling Area Site (SS-C507)

Geologic materials logged at this site consisted of fill material overlying native materials derived from or included in the Ogallala Formation. Fill material was composed of silts, clays, and sands that contained some gravel or sand-sized caliche nodules. Fill material was present from ground surface to depths of 4 to 18.5 feet bgs. Native soils consisted of silts, sands, and clays that occasionally contained caliche nodules (caliche nodules ranged in size from sand to gravel-sized). No distinct caliche layers were observed in the subsurface at SS-C507.

5.1.7 Surface Disposal Area Site (SD-C508)

Geologic materials logged at this site consisted of native materials derived from or included in the Ogallala Formation. In general small, thin layers of fill material were present at some locations. The fill material was composed of silt and occasionally contained some sand, trace amounts of gravel, or various quantities of caliche nodules. Native soils consisted mostly of silts, but also included some sands. Caliche nodules were common in both fill material and native soils, from approximately 1 to 17.5 feet bgs. No distinct caliche layers were observed in the subsurface at SD-C508.

5.1.8 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129)

Geologic materials logged at this site consisted of fill material overlying native materials derived from or included in the Ogallala Formation. Fill material was composed of sands, silts, clays, and gravel that contained various quantities of gravel or asphalt fragments. Fill material was present from ground surface to depths of 1 to 11 feet bgs. Soil boring SB08 encountered the most fill at approximately 11 feet thick. This is consistent with the documented excavation activities that occurred within the vicinity of the former Facility 244. Soil boring completed adjacent to the leach field piping (SB01, SB02, SB03, SB06, and SB07) generally encountered the fill up to 6 feet thick. This is consistent with the as built diagram for the leach filed, which shows the piping and gravel installed to a depth of 3 feet bgs. Native soils consisted of silts and sands that contained various quantities caliche nodules (up to approximately one-half inch in diameter). No distinct caliche layers were observed in the subsurface at TA/AS-C129 (SWMU129).

5.2 SUMMARY OF ANALYTICAL RESULTS

A total of 46 surface soil samples (0 to 0.5 foot bgs) and 573 subsurface soil samples were collected for this investigation. Soil samples were collected and sent to EMAX to be analyzed for contaminants of concern, as described in **Section 4** of this report. Summaries of the analytical detections with the data screened against the PALs are presented by site in **Tables 5-1** through **5-8**. Results of laboratory analyses are more fully documented in dump tables (Tables D.1, D.2, and D.3 in **Appendix D)**.

5.3 DATA REVIEW AND VALIDATION

The analytical data generated by EMAX were checked for accuracy, precision, representativeness, comparability, and completeness. The data review/validation process for this project consisted of data generation, reduction, and two levels of review. Details of these processes are presented in **Appendix D**.

5.4 HUMAN HEALTH SCREENING-LEVEL EVALUATION

The following sections present the human health screening-level evaluation for the eight sites. This evaluation was completed in accordance with the methodology presented in **Section 3.5**. The results of the human health screening level-evaluation are provided below.

5.4.1 Former AGE Dispatch Facility Spills Site (SS-C501)

Arsenic was identified in concentrations exceeding the residential human health PAL (3.90E+00 mg/kg) at all 11 borings and in 13 out of 24 samples. However, two of the 13 samples (both collected from 5 to 10 feet bgs) did not exceed the established background concentration (4.30E+00 mg/kg in subsurface soil). Arsenic was detected at a maximum concentration of 5.24E+00 mg/kg. Arsenic that exceeded their residential human health PALs at the site did not

exceed the industrial/occupational screening level of 1.77E+01 mg/kg. No other analytes exceeded their respective residential human health PALs. **Table 5-1** summarizes the results of the analytical detection screen, and **Figure 5-1** shows sample locations with results exceeding PALs for SS-C501.

Arsenic was detected above the residential human health PAL in all samples collected directly below the asphalt pavement (1 to 5 feet bgs). Arsenic exceeded the residential human health PAL, but was below the established subsurface background concentration in only two samples collected from 5 to 10 feet bgs at SB05 and SB07. The two samples collected from 10 to 15 feet bgs did not exceed the residential human health PAL.

Based on the low level arsenic detections (similar to background) and absence of other COPC that are related to suspect contamination, the presence of arsenic appears to be related to high background concentrations and is not indicative of a release.

5.4.2 Former Gas Station Site (ST-C502)

No analytes were detected at concentrations exceeding the residential human health PALs at this site. Based on the findings of this investigation, the elevated TPH concentrations identified by previous investigations (at previous soil boring CAFB-FAC0368-10) were no longer observed at ST-C502. The decrease in the TPH levels at ST-C502 can likely be attributed to natural attenuation of TPH in the soil. **Table 5-2** summarizes the results of the analytical detections, and **Figure 5-2** shows sample locations indicating all sample results for this site were below the residential human health PALs.

5.4.3 Base Support/Operations Generator Former UST Site (ST-C503)

No analytes were detected at concentrations exceeding the residential human health PALs at this site. Based on the findings of this investigation, the elevated TPH concentrations identified by previous investigations (at previous soil boring CAFB-FAC0600-03) were no longer observed at ST-C503. The decrease in the TPH levels at ST-C503 can likely be attributed to natural attenuation of TPH in the soil. **Table 5-3** summarizes the results of the analytical detections, and **Figure 5-3** shows sample locations indicating all sample results for this site were below the residential human health PALs.

5.4.4 Hospital Abandoned UST Site (ST-C504)

The following site-related SVOCs exceeded their residential human health PALs at this site: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. These four site-related SVOCs were detected above the residential human health PAL only at SB08 in samples collected from 0 to 5 feet bgs and 10 to 15 feet bgs. Samples collected at SB08 at from 15 to 20 feet bgs and 20 to 25 feet bgs were below the residential human health PALs. The maximum concentrations of site-related SVOCs exceeding their residential human health PALs were detected in the 0- to 5-foot sample. The maximum concentrations (with human health

PALs) are as follows: benzo(a)anthracene was 4.80E+00 mg/kg (PAL=1.48E+00 mg/kg), benzo(a)pyrene was 2.10E+00 mg/kg (PAL=1.48E-01 mg/kg), benzo(b)fluoranthene was 3.40E+00 mg/kg (PAL=1.48E+00 mg/kg), and dibenz(a,h)anthracene was 2.20E-01mg/kg (PAL=1.48E-01 mg/kg). Site-related SVOCs that exceeded their residential human health PALs at the site did not exceed the following NMED industrial/occupational screening levels: 2.34E+01 mg/kg for benzo(a)anthracene, 2.34E+00 mg/kg for benzo(a)pyrene, 2.34E+01 mg/kg for benzo(b)fluoranthene, and 2.34E+00 mg/kg for dibenz(a,h)anthracene. Based on these results the site-related SVOCs exceeding the residential human health PALs are localized in the immediate vicinity of the UST; therefore, the extent of site-related SVOCs exceeding the residential human health PALs in soil has been fully defined at site ST-C504.

TPH-DRO exceeded the residential human health PAL (NMED's TPH Screening Guideline for Residential Direct Exposure) of 1.00E+03 mg/kg, in 70 out of the 164 samples collected from seven of the 16 borings completed. TPH-DRO exceeded the residential human health PAL at depths ranging from 5 to 190 feet bgs, with a maximum concentration of 8.70E+03 mg/kg detected at SB03 (from 45 to 50 feet bgs) and at SB02 (from 50 to 55 feet bgs). TPH-DRO exceeded the NMED industrial/occupational screening level of 3.00E+03 mg/kg in 44 samples collected at seven borings. No other analytes exceeded their respective residential human health PALs. **Table 5-4** summarizes the results of the analytical detection screen, and **Figure 5-4** shows sample locations with results exceeding PALs for ST-C504.

The horizontal extent of TPH-DRO exceeding the residential human health PAL (1,000 mg/kg) is depicted on **Figure 5-4**. Based on the results, the presence of TPH-DRO exceeding the residential human health PAL appears to be limited to the immediate vicinity of the abandoned UST, extending outward up to 15 feet in the north and northwest direction from the UST. Step out boring locations completed 15 to 25 feet away from the UST (borings SB05, SB06, SB07, SB09, SB11, SB12, SB13, SB15, and SB16) did not have detections of TPH-DRO exceeding the residential human health PAL. Based on the horizontal extent depicted on **Figure 5-4**, the TPH-DRO release appears to have occurred primarily in the northern portions of the UST, specifically near borings SB01, SB02, SB03, SB04, and SB14. A comparison of all concentrations near the base of the UST (approximately 20 feet bgs), indicates the highest concentration at 20 feet bgs is located near SB01, which also confirms the TPH-DRO release occurred in the northern portion of the UST (likely near SB01). Borings completed in the southern portions of the tank show little TPH-DRO contamination.

The vertical extent of TPH-DRO exceeding the residential human health PAL (1,000 mg/kg) along cross-sections A-A' and B-B' is shown on **Figures 5-5** and **5-6**, respectively. Based on the first phase of sampling completed at the site in January 2013, sample results collected from SB01, SB02, and SB03 (i.e., three deepest borings) were evaluated to determine which boring location had the highest probability of encountering the highest concentrations of TPH-DRO at depth. Although SB02 and SB03 had the highest detection of TPH-DRO (8.70 E+03 mg/kg at 55 and 50 feet bgs, respectively), results at SB01 and SB02 (i.e., two deepest borings) indicated that SB01 had the highest TPH-DRO concentration between 70 to 85 feet bgs. Therefore, it was

assumed SB01 had the highest probability of encountering the highest concentrations at deeper depths. As a result of this evaluation, SB01 was further advanced as part of the second phase of sampling completed in July 2013. The second phase of sampling was conducted to define the vertical extent of TPH-DRO and to determine if groundwater had been impacted at the boring location with the highest probability of encountering TPH-DRO at depth.

At vertical profile boring SB01, the first occurrence of TPH-DRO exceeding the residential human health PAL was detected at 20 to 23 feet bgs (a depth similar to the depth of the UST, likely indicating the release occurred nearby). Additionally, TPH-DRO concentrations at SB01 were consistent with other borings from 30 to 70 feet bgs; were the highest of any boring from 70 to 85 feet bgs; and consistently declined after 120 feet bgs. Samples collected at 180 and 190 feet bgs were only slightly above the residential human health PAL. Samples collected from 190 to 275 feet bgs did not exceed the residential human health PAL. TPH-DRO concentrations declined two orders of magnitude (from 7.80E+02 mg/kg to 8.700E+00 mg/kg) between 210 and 215 feet. TPH-DRO concentrations throughout the remainder of the boring were similarly low. This observed decline in concentration at 215 feet bgs is likely due to the presence of a 2-foot layer of cemented sandstone encountered at 213 feet bgs that appears to be restricting vertical migration of TPH-DRO at ST-C504. Another decline in concentrations was observed between 265 and 270 feet bgs (from 310E+00 mg/kg to nondetect) likely due to the presence of a 2-foot layer of moist silt to silty sand at 265 feet bgs. Samples collected at 270 and 275 feet bgs were nondetect for TPH-DRO.

In summary, SB01 was advanced near the location of the TPH-DRO release. Based on a comparison of the analytical results, SB01 had the highest probability of encountering higher TPH-DRO concentrations at depth. Therefore, any other boring locations advanced at the site to depths similar to SB01 would have similar or lower TPH-DRO concentrations at depth. Based on the analytical results, the subsurface lithology at the site, and the extent of contamination presented in **Figures 5-4** through **5-7**, the TPH-DRO contamination appears to have migrated only vertically, and little to no horizontal migration has occurred in the vadose zone. This can be attributed to the presence of primarily fine-grained sand from the base of the UST to 213 feet bgs, and the absences of distinct caliche layers at the site. The presence of a 2-foot layer of cemented sandstone encountered at 213 feet bgs and a 2-foot layer of moist silt to silty sand at 265 appears to be restricting vertical migration of TPH-DRO. It is assumed some horizontal migration may have occurred at these two layers, however, TPH-DRO concentrations were below residential human health PAL and well below the industrial/occupational screening level at the depth these two layers were encountered. It is also assumed that based on the results of the last two samples collected at SB01 (which were nondetect at 270 and 275), groundwater (approximately 330 feet bgs) has not been impacted at ST-C504. Overall, these results indicate the extent of TPH-DRO in soil has been fully defined at site ST-C504.

5.4.5 Flightline Generator USTs Site (ST-C505)

The following site-related SVOCs exceeded their residential human health PALs at this site: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. These five site-related SVOCs were detected above the residential human health PAL in only one subsurface sample at SB07 (from 20 to 25 feet bgs). The concentrations (with human health PALs) are as follows: benzo(a)anthracene was 7.30E+00 mg/kg (PAL=1.48E+00 mg/kg), benzo(a)pyrene was 6.10E+00 mg/kg (PAL=1.48E-01 mg/kg), benzo(b)fluoranthene was 7.70E+00 mg/kg (PAL=1.48E+00 mg/kg), dibenz(a,h)anthracene was 7.70E-01 mg/kg (PAL=1.48E-01 mg/kg), and indeno(1,2,3-cd)pyrene was 3.00E+00 mg/kg (PAL=1.48E+00 mg/kg). Site-related SVOCs that exceeded their residential human health PALs at the site did not exceed the following NMED industrial/occupational screening levels: 2.34E+01 mg/kg for benzo(a)anthracene, 2.34E+00 mg/kg for benzo(a)pyrene, 2.34E+01 mg/kg for benzo(b)fluoranthene, 2.34E+00 mg/kg for dibenz(a,h)anthracene, and 2.34E+01 mg/kg for indeno(1,2,3-cd)pyrene. No other analytes exceeded their respective residential human health PALs. Based on the findings of this investigation, the elevated TPH concentations identified by previous investigations (at previous soil borings CAFB-FAC3060-02 and CAFB-FAC3060-03) were no longer observed at ST-C505. The decrease in the TPH levels at ST-C505 can likely be attributed to natural attenuation of TPH in the soil. **Table 5-5** summarizes the results of the analytical detection screen, and **Figure 5-7** shows sample locations with results exceeding PALs for ST-C505.

It should be noted that although the 20 to 25 foot sample collected at SB07 had detections of site-related SVOCs exceeding the residential human health PALs, all other samples collected above the 20 to 25 foot interval (from 0 to 20 feet bgs) were nondetect for site-related SVOC. Additionally, other samples collected at the 20- to 25-foot interval from borings directly under the previous USTs did not have concentration of site-related SVOCs exceeding the residential human health PALs, and SB07 is at the edge of the previous UST excavation (where, presumably, potential contamination would be at the lowest concentration). Considering this information, the sample collected at SB07 from 20 to 25 feet is an anomaly and is not consistent with other data collected at SB07.

5.4.6 Former POL Yard Refueling Area Site (SS-C507)

The following site-related SVOCs exceeded their residential human health PALs at this site: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Benzo(a)anthracene exceeded the residential human health PAL (1.48E+00 mg/kg) in three surface soil samples with a maximum concentration of 3.10E+00 mg/kg. Benzo(a)pyrene exceeded the residential human health PAL (1.48E-01 mg/kg) in 15 surface soil samples and one subsurface sample with a maximum concentration of 3.30E+00 mg/kg. Benzo(b)fluoranthene exceeded the residential human health PAL (1.48E+00 mg/kg) in four surface soil samples with a maximum concentration of 5.60E+00 mg/kg. Dibenz(a,h)anthracene exceeded the residential human health PAL (1.48E-01 mg/kg) in four

surface soil samples with a maximum concentration of 4.60E-01 mg/kg. Indeno(1,2,3-cd)pyrene exceeded the residential human health PAL (1.48E+00 mg/kg) in one sample with a concentration of 1.60E+00 mg/kg. Overall, 19 surface (0 to 0.5 foot bgs) samples and one subsurface soil sample had detections of site-related SVOCs exceeding the residential human health PALs. Site-related SVOCs that exceeded their residential human health PALs at the site did not exceed the following NMED industrial/occupational screening levels: 2.34E+01 mg/kg for benzo(a) anthracene, 2.34E+00 mg/kg for benzo(a)pyrene, 2.34E+01 mg/kg for benzo(b)fluoranthene, 2.34E+00 mg/kg for dibenz(a,h)anthracene, and 2.34E+01 mg/kg for indeno(1,2,3-cd)pyrene.

PCB-1260 exceeded the residential human health PAL (2.22E+00 mg/kg) in one surface soil sample (0 to 0.5 foot bgs) collected at SS54, with a concentration of 4.50E+00 mg/kg. Sample location SS54 was located at a break in the concrete curb that receives runoff from the MOGAS unloading area and the JP4/JP8 dispensing islands. PCB-1260 detected at SS54 did not exceed the NMED industrial/occupational screening level of 8.26E+00 mg/kg. No other analytes exceeded their respective residential human health PALs. **Table 5-6** summarizes the results of the analytical detection screen, and **Figures 5-8a** and **5-8b** shows sample locations with results exceeding PALs for SS-C507.

Based on the results shown on **Figures 5-8a** and **5-8b**, the presence of site-related SVOCs exceeding the residential human health PAL appears to be primarily limited to the surface soil (0 to 0.5 foot bgs), with only one subsurface soil sample (0.5 to 5 feet bgs) at SB03 (just west of the south fuel unloading area) exceeding the residential human health PAL. Site-related SVOCs exceeded the residential human heath PAL in surface soil at the following locations:

- Adjacent to the north and south fuel unloading ports; to the west of the fuel unloading areas where a reported JP-8 spill (approximately 400 gallons) previously occurred (followed by a soil removal action)
- In the southeastern portion of the oval area that receives runoff from the eastern and central portions of the site
- In the open area to the south, between the two south gates, that receives runoff from the eastern and central portions of the site
- At one location (SS12) at the north end of the former OWS vault within the south portion of the oval
- At one location (SS21) just north of former Building 390 where a reported JP-8 spill (approximately 400 gallons) previously occurred (followed by a soil removal action)
- At one location (SS32) at the north end of the former OWS vault just north of the former MOAGS dispensing area
- At one location (SS60) north of the former MOGAS dispensing area

Previously identified areas of concern that did not have detections exceeding the residential human health PALs included:

- All paved areas (the truck unloading areas, JP4/JP8/diesel fuel dispensing islands, and south of MOGAS dispensing area)
- Within previously reported spill area north of former building 390
- Under former buildings 390 and 392
- Under all previous above ground fuel lines and elbows throughout the site
- Around all underground fuel lines and elbows throughout the site

5.4.7 Surface Disposal Area Site (SD-C508)

The following SVOCs exceeded their residential human health PALs at this site: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. These four site-related SVOCs were detected above the residential human health PAL in only one surface soil sample at SS08 (from 0 to 0.5 foot bgs). The concentrations (with human health PALs) are as follows: benzo(a)anthracene was 1.80E+00 mg/kg (PAL=1.48E+00 mg/kg), benzo(a)pyrene was 2.00E+00 mg/kg (PAL=1.48E-01 mg/kg), benzo(b)fluoranthene was 2.50E+00 mg/kg (PAL=1.48E+00 mg/kg), and dibenz(a,h)anthracene was 2.50E-01 mg/kg (PAL=1.48E-01 mg/kg). SVOCs that exceeded their residential human health PALs at the site did not exceed the following NMED industrial/occupational screening levels: 2.34E+01 mg/kg for benzo(a)anthracene, 2.34E+00 mg/kg for benzo(a)pyrene, 2.34E+01 mg/kg for benzo(b)fluoranthene, and 2.34E+00 mg/kg for dibenz(a,h)anthracene.

For human health, dioxins and furans are evaluated as a group, with the concentrations of congeners adjusted with reference to their toxicity relative to the most toxic form, 2,3,7,8-TCDD (TCDD). The World Health Organization has established a toxicity equivalency factor (TEF) for each congener which, when multiplied by the congener concentration, results in a TCDD-equivalent concentration (TEQ). Congener-specific TEQs are summed to get a total TEQ concentration which can then be compared with the TCDD human health screening value of 4.50E-05 mg/kg. Congener-specific maximum concentrations, TEFs and TEQs are presented in the following table. The maximum concentrations occurred in a single surface sample (CA508-SS01, 0 to 0.5 foot bgs).

Congener	Maximum Result	TEF	TEQ
1,2,3,4,6,7,8-HpCDD	4.63E-04	0.01	4.63E-06
1,2,3,4,6,7,8-HpCDF	1.54E-05	0.01	1.50E-07
1,2,3,4,7,8-HxCDD	6.03E-06	0.1	6.00E-07
1,2,3,4,7,8-HxCDF	2.3E-06	0.1	2.30E-07
1,2,3,6,7,8-HxCDD	1.66E-05	0.1	1.66E-06
1,2,3,6,7,8-HxCDF	2.24E-06	0.1	2.20E-07

Congener	Maximum Result	TEF	TEQ
1,2,3,7,8,9-HxCDD	1.82E-05	0.1	1.82E-06
1,2,3,7,8-PeCDD	2.21E-06	1	2.21E-06
2,3,4,6,7,8-HxCDF	3.71E-06	0.1	3.70E-07
2,3,4,7,8-PeCDF	1.23E-06	0.3	3.70E-07
OCDD	2.75E-03	0.0003	8.30E-07
OCDF	1.99E-05	0.0003	1.00E-08

Units: milligrams per kilogram

A comparison of the TCDD equivalents of 1.31E-05 mg/kg to the TCDD human health screening value of 4.50E-05 mg/kg indicates dioxins and furans are not a human health concern at SD-C508.

Arsenic in soil collected from 0 to 10 feet bgs was identified in concentrations exceeding the residential human health PAL (3.90E+00 mg/kg) and the established surface soil background concentration (3.60E+00 mg/kg) in five out of 33 samples collected at five out of nine borings completed, with a maximum concentration of 5.59E+00 mg/kg. Arsenic in soil collected greater than 10 feet bgs was identified in concentrations exceeding the residential human health PAL (3.90E+00 mg/kg), but not the established subsurface soil background concentration (4.30E+00 mg/kg) at SB01 at 20 feet bgs. Arsenic detections that exceeded their residential human health PALs at the site did not exceed the NMED industrial/occupational screening levels of 1.77E+01 mg/kg. No other analytes exceeded their respective residential human health PALs. **Tables 5-7a** and **5-7b** summarizes the results of the analytical detection screen, and **Figure 5-9** shows sample locations with results exceeding PALs for SD-C508.

Arsenic was detected above the residential human health PAL and the established background concentration in surface soil samples collected at three borings (SS03, SS05, and SS08) in the eastern portion of the site and in subsurface soil samples collected at two borings (SB04 at 9 feet bgs and SB07 at 5 feet bgs) in the western portion of the site. Arsenic was not detected at concentrations above the residential human health PAL at borings SS/SB02 and SS/SB06 in the northern portion of the site or in boring SS/SB09 in the southern portion of the site.

Based on the low level arsenic detections (similar to background) and low frequency of other COPC that are related to suspect contamination, the presence of arsenic appears to be related to high background concentrations and is not indicative of a release.

5.4.8 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129)

The only analytes that exceedied their residential human health PALs included benzo(a)pyrene, TPH-ORO, and arsenic. Benzo(a)pyrene exceeded the residential human health PAL (1.48E-01 mg/kg) in one sample at SB05 (0 to 5 feet bgs) with a concentration of 1.80E-01 mg/kg. TPH-ORO exceeded the residential human health PAL (1.00E+03 mg/kg) in one sample at SB04 (0 to 5 feet bgs) with a concentration of 1.20E+03 mg/kg. Arsenic exceeded the residential human

health PAL (3.90E+00 mg/kg) and the established surface soil background concentration (3.60E+00 mg/kg) in soil samples collected between 0 and 5 feet bgs at nine out of 10 borings, with a maximum concentration of 4.34E+00 mg/kg (at SB04). Benzo(a)pyrene, TPH-ORO, and arsenic detections that exceeded their residential human health PALs at the site did not exceed the NMED industrial/occupational screening levels of 2.34E+00 mg/kg, 3.00E+03 mg/kg, and 1.77E+01 mg/kg, respectively. Arsenic did not exceed the residential human health PAL in any samples collected below 5 feet bgs. No other analytes exceeded their respective residential human health PALs. **Table 5-8** summarizes the results of the analytical detection screen, and **Figure 5-10** shows sample locations with results exceeding PALs for TA/AS-C129 (SWMU129).

Based on the low level arsenic detections (similar to background) and low frequency of other COPC that are related to suspect contamination, the presence of arsenic appears to be related to high background concentrations and is not indicative of a release.

5.5 ECOLOGICAL SCREENING-LEVEL EVALUATION

The following sections present the ecological screening-level evaluation for the eight sites. This evaluation was completed in accordance with the methodology presented in **Section 3.6**. The results of the ESL evaluation are provided below.

5.5.1 Scoping Assessment

For assessing ecological risk, it is most appropriate to begin by evaluating whether or not ecological receptors are present or could be present in the locality where a release of hazardous waste/constituents has occurred and, if so, whether or not there is a complete pathway of exposure between the release and the receptor. The main objective of scoping is to identify sites that are obviously devoid of ecological habitats and/or where exposure pathways are obviously incomplete so that they can be removed from quantitative evaluation (NMED 2012).

Scoping involves assessing basic site information on the physical and biological aspects of the site, current and historical uses, known releases that have occurred, and the transport and fate of those chemical releases. Information relevant for assessing the potential for ecological risk are summarized below and the reader is referred to **Section 3** for specific details.

5.5.1.1 Former AGE Dispatch Facility Spills Site (SS-C501)

The Former AGE Dispatch Facility Spills Site (SS-C501) is in the central portion of Cannon AFB and includes only the asphalt parking lot formerly used to store AGE. A full site description is provided in **Section 2.5**. Because of the presence of pavement over the area of suspected contaminated soil and the presence of roadways and building foundations surrounding the site, it is considered devoid of ecological habitat. Using NMED's *Ecological Site Exclusion Checklist and Decision Tree* (**Appendix F**), the site qualifies for exclusion and no ecological assessment is warranted.

5.5.1.2 Former Gas Station Site (ST-C502)

The Former Gas Station Site (ST-C502) is in the north central portion of Cannon AFB. A full site description is provided in **Section 2.5**. The site currently contains a small lawn (25 feet by 50 feet; 0.03 acre), that is regularly disturbed by mowing and contains no other vegetation that might serve as refuge or forage for birds or mammals. Because all but 0.03 acre of the site is covered in pavement or building and the proximity of roadways and other buildings offsite, the site is considered devoid of ecological habitat and lacking complete exposure pathways. Using NMED's *Ecological Site Exclusion Checklist and Decision Tree* (**Appendix F**), the site qualifies for exclusion and no ecological assessment is warranted.

5.5.1.3 Base Support/Operations Generator Former UST Site (ST-C503)

The Base Support/Operations Generator Former UST Site (ST-C503) is in the west-central portion of Cannon AFB. A full site description is provided in **Section 2.5**. While the site is an open area, the surface appears to be regularly disturbed and is primarily bare soil. In the absences of any significant vegetation that might serve as refuge or forage for birds or mammals, the site is considered devoid of ecological habitat and lacking complete exposure pathways. Using NMED's *Ecological Site Exclusion Checklist and Decision Tree* (**Appendix F**), the site qualifies for exclusion and no ecological assessment is warranted.

5.5.1.4 Hospital Abandoned UST Site (ST-C504)

The Hospital Abandoned UST Site (ST-C504) is in the northwestern portion of Cannon AFB, adjacent to the access road behind the hospital. A full site description is provided in **Section 2.5**. The diesel UST was abandoned in place in 1994. The site currently contains primarily bare soil areas (60 feet by 10 feet over the UST and 70 feet by 20 feet to the northeast of the UST; 0.05 acre), that appears to be regularly disturbed and contains no other vegetation that might serve as refuge or forage for birds or mammals. Because all but 0.05 acre of the site is covered in pavement or building and the proximity of roadways and other adjacent buildings, the site is considered devoid of ecological habitat and lacking complete exposure pathways. Using NMED's *Ecological Site Exclusion Checklist and Decision Tree* (**Appendix F**), the site qualifies for exclusion and no ecological assessment is warranted.

5.5.1.5 Flightline Generator USTs Sites (ST-C505)

The Flightline Generator USTs Sites (ST-C505) is in the northeast portion of Cannon AFB, due north of the north end of the main runway near Aderholt Loop. A full site description is provided in **Section 2.5**. The site currently contains primarily bare soil. The entire site measures only 25 feet by 25 feet (0.01 acre), and appears to be regularly disturbed and contains no vegetation that might serve as refuge or forage for birds or mammals. Additionally, the site is within the flightline and maintained for that purpose. Because the entire site is all but 0.01 acre, contains primarily bare soil at the surface, and is regularly disturbed, the site is considered devoid of ecological habitat and lacking complete exposure pathways. Using NMED's

Ecological Site Exclusion Checklist and Decision Tree (**Appendix F**), the site qualifies for exclusion and no ecological assessment is warranted.

5.5.1.6 The Former POL Yard Refueling Area Site (SS-C507)

The Former POL Yard Refueling Area Site (SS-C507) is near the northern boundary of Cannon AFB, southeast of the main entrance. A full site description is provided in **Section 2.5**. Because 8,000 gallon tanker trucks, and train tanker cars moved in and out of SS-C507, much of the site is covered with pavement. Traffic circled around a central bermed oval. The primary substrate within the oval is crushed volcanic rock that is highly porous and light in mass. This type of rock is used because it is a deterrent to small burrowing mammals and the establishment of plants from seed and, therefore, is not considered ecological habitat. However, the northern portion within the oval and around the former POL pond (currently drained) are grass-covered. With the exception of a long 40-foot by 300-foot (0.26-acre) strip of grass immediately west of the concrete unloading area, the remainder of the unpaved portion of the site is compacted soil. For the purposes of a screening ecological risk assessment, the unpaved areas of SS-C507 (grassy areas and compacted soil) were considered to be potential viable ecological habitat.

Ecological receptors could potentially be exposed to chemicals released to surface or subsurface soil through ingestion or direct contact with soil, through ingestion of biota that has taken up contaminants from surface and subsurface soil, and, to a lesser extent, inhalation of fugitive dust or other airborne particles. Because ecological receptors are or could be potentially present and pathways of exposure are complete, SS-C507 was carried forward to the ecological screening-level assessment.

Known or probable waste streams include petroleum-related compounds. Analytes included TPH-DRO, TPH-GRO, TPH-ORO, BTEX, naphthalene, site-related SVOCs, PCBs, and lead.

5.5.1.7 Surface Disposal Site (SD-C508)

The Surface Disposal Area Site (SD-C508) is in the southeast portion of Cannon AFB, near the end of an abandoned runway. A full site description is provided in **Section 2.5**. Site SD-C508 is in the southern portion of the base, which is largely undeveloped and surrounded by property that is heavily cultivated. Therefore, SD-C508 could provide habitat for plants and animals typical for this region.

Ecological receptors could potentially be exposed to chemicals released to surface or subsurface soil through ingestion or direct contact with soil, through ingestion of biota that has taken up contaminants from surface and subsurface soil, and, to a lesser extent, inhalation of fugitive dust or other airborne particles. Because ecological receptors are or could be potentially present and pathways of exposure are complete, SD-C508 was carried forward to the ecological screening-level assessment.

Because there was no documentation of the types of materials that were disposed, soil samples were analyzed for a wide variety of possible contaminants: TPH-DRO, TPH-GRO, TPH-ORO, VOCs, SVOCs, pesticides, RCRA metals, PCBs, explosives, and dioxins/furans.

5.5.1.8 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129)

The Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129) is in the northeast portion of the Cannon AFB and consists of two main areas: the former Facility 244 and the former leach field to the southeast. A full site description is provided in **Section 2.5**. Currently, the area around the former Facility 244 is generally paved with remnant asphalt and crushed gravel. The leach field to the southeast of the facility received the water fraction from a central OWS. The leach field consisted of buried perforated plastic piping surrounded by crushed stone (Parallax 2000). The area over and near the leach field is currently covered with grass and bore soil.

It is possible that the former leach field area could become viable habitat for ecological receptors. Contamination in the leach field was found beneath the plastic piping which is approximately 3 feet bgs. Potential exposure would occur to plants with deeper roots and burrowing mammals; therefore, the site was carried forward for further ecological evaluation.

Based on its past use as a leach field connected to an OWS where waste oil and a variety of other chemicals may have been disposed the analyte list for TA/AS-C129 (SWMU129) included the following: TPH-DRO, TPH-GRO, TPH-ORO, VOCs, SVOCs, RCRA metals, PCBs, and pesticides.

5.5.2 Special-Status Species and/or Environments

Consideration was given to the possible presence of threatened and endangered species as well as sensitive environments. NMED's list of sensitive environments includes, but is not limited to, the following:

- National Parks and National Monuments
- Designated or Administratively Proposed Federal Wilderness Areas
- National Preserves
- National or State Wildlife Refuges
- Federal land designated for protection of natural ecosystems
- State land designated for wildlife or game
- Areas that provide or could provide habitat for State- or Federally-listed threatened or endangered species, or other special-status species
- Areas that provide or could provide habitat for migratory birds

- Areas that provide or could provide habitat for hawks, vultures, owls
- All perennial waters, riparian habitats and perennial and ephemeral wetlands
- All areas that are important breeding, staging or overwintering habitats important to the survival of animals during critical periods of their lives.

Six of the eight sites are in the area of the northwest portion of the base that has been developed as light industrial. Of the sites with potential ecological habitat, SS-C507 and TA/AS-C129 (SWMU129) are in the developed area of the base while SD-C508 is in a more remote and less disturbed part of the base. No sensitive environments are associated with any of the subject sites.

5.5.2.1 Federal- and State-Listed Species

No federal- or state-listed threatened or endangered species are known to permanently reside on Cannon AFB; however, some species have been observed in Curry County in a transitory state while in migration (INRMP 2009). The following table presents the species that are listed as threatened or endangered or are candidates for listing that have been observed in Curry County.

Federal- and State-Listed Species Occurring in Curry County

Common Name	Scientific Name	Federal Status	State Status
Bald Eagle	*Haliaeetus leucocephalus alascanus*	Species of Concern	Threatened
Peregrine Falcon	*Falco peregrinus anatum*	Species of Concern	Threatened
Arctic Peregrine Falcon	*Falco peregrinus tundrius*	Species of Concern	Threatened
Baird's Sparrow	*Ammodramus bairdii*	Species of Concern	Threatened
Least Tern	*Sternula antillarum athalassos*	Endangered	Endangered
Black-footed Ferret	*Mustela nigripes*	Endangered	
Sprague's Pipit	*Anthus spragueii*	Candidate	
Lesser Prairie Chicken	*Tympanuchus pallidicinctus*	Candidate	Sensitive
Burrowing Owl	*Athene cunicularia hypugaea*	Species of Concern	

Source: Biota Information System of New Mexico, New Mexico Game & Fish (Accessed 4/6/2013) and U.S. Fish and Wildlife Service, New Mexico Ecological Services Field Office (Accessed 4/6/2013).

Bald eagles are fairly common in New Mexico in the winter where there are watercourses and reservoirs (NMACP 20013). Because there are no bodies of water on or in the vicinity of the subject sites, bald eagle would be unlikely to occur on Cannon AFB.

While the two subspecies of the peregrine falcon are listed as being present in Curry County, it is likely that they are not resident to lowland areas of New Mexico. According to the New Mexico Avian Conservation Partner (NMACP 2013), peregrine falcons breed in the mountains and river canyons of western New Mexico and are rare winter visitors to lowlands. Peregrines tend to have large home ranges; when nesting, they may forage in a 9-mile or greater radius from their

nest (254 square miles). Consequently, they are unlikely to forage on or in the vicinity of the subject sites.

Baird's sparrow is a grassland specialist that breeds in Canada, Montana and the Dakotas but winters in northern Mexico with some ranging into southern New Mexico in the winter. Their preferred habitat in winter is grasslands dominated by bunchgrasses, although they do occur in grazed pastures when native habitat is unavailable. Because Baird's sparrow prefers areas with dense grasses, there is a low probability that it will inhabit and of the sites under consideration.

The New Mexico population of least terns is found in Bitter Lake National Wildlife Reserve near Roswell in Chaves County (NMACP 2013). Least terns eat primarily small fish but occasionally capture flying insects. Because there are no bodies of water on or in the vicinity of the subject sites, least terns would be unlikely to occur on Cannon AFB.

Sprague's pipit is a small songbird with a preferred habitat of grassland species endemic to the northern Great Plains (NMAP 2013). It occurs sporadically in New Mexico in winter, primarily in desert grassland along the lower Pecos River and the southern portion of the state. Sprague's pipit would be an unlikely visitor to the subject sites due to the absence of appropriate habitat.

The black-footed ferret depends on prairie dogs for food and on their burrows for shelter. As there are no prairie dog colonies on or in the vicinity of the subject sites, the black-footed ferret is unlikely to be present.

The primary populations of the lesser prairie chicken occur in Lea, Roosevelt and Chaves Counties with scattered populations occurring in Curry County (NMACP 2013). The lesser prairie chickens preferred habitat is a plant community dominated by shin-oak and grass species, such as bluestem, grama and dropseed grasses; shrub cover is crucial. These plant communities are not present in or in the vicinity of the subject sites; therefore, the lesser prairie chicken is unlikely to become exposed to site-related chemicals.

In conclusion, based on the natural history and behavior of the threatened, endangered or candidate species noted by USFWS to have been observed in Curry County, none would be expected to occur at any of the eight sites.

5.5.3 Technical Decision Point

A summary of the sites evaluated for their eligibility for exclusion is presented in **Table 5-9**. This table briefly states the types of activity at each site and notes the presence or absence of terrestrial and aquatic habitat and potential pathways at each site. The completed checklists are included in **Appendix F**. Five sites qualified for exclusions according to NMED's Decision Tree: SS-C501, ST-C502, ST-C503, ST-C504 and ST-C505.

Portions of the remaining sites (SS-C507, SD-C508 and TA/AS-C129 [SWMU129]) have potential ecological habitat for potential ecological receptors. These sites were carried forward to the contaminant-screening steps of the ecological risk assessment.

5.5.4 Screening- Level Ecological Risk Assessment

The following sections present the SLERA for sites SS-C507, SD-C508 and TA/AS-C129 (SWMU129). The SLERA was completed in accordance with the methodology presented in **Section 3.6**. The results of the SLERA are provided below.

5.5.4.1 Data Usability

As discussed in **Section 3**, selection of sample locations was based on known or suspected spills or other waste-generating activity. Proposed sample locations were presented in the PAWP and reviewed and approved by NMED as being adequate for the purposes of this SI. As described in the UFP-QAPP, all data went through an evaluation of the quality of the data with respect to sample quantitation limits, qualifiers and codes and blank or QC analyses. Data were found to be useable. As part of the UFP-QAPP, ecological PALs were compared with achievable laboratory limits. Laboratory limits could not achieve the ecological PALs for seven SVOCs, PCB 1248, and mercury. Results of chemical screening for the three sites with potential ecological habitat are discussed in the following sections.

5.5.4.2 Former POL Yard Refueling Area Site (SS-C507)

Table 5-10 presents the summary statistics for the ecologically accessible portions of SS-C507. As noted previously, and consistent with NMED's definitions of ecological habitat (NMED 2008), only areas that were without concrete or pavement were considered potential ecological habitat. In addition, soils greater than 10 feet bgs were considered not accessible to most ecological receptors and were not included in the compilation. Summary statistics such as sample number and maximum detection are different from those presented previously.

As shown in **Table 5-10**, the maximum concentrations of lead and PCB-1260 exceed their respective ecological PAL and were identified as COPECs. Site-related SVOCs that exceeded their respective ecological PALs included high molecular weight (HMW) polynuclear aromatic hydrocarbons (PAHs) and low molecular weight (LMW) PAHs. The HMW and LMW PAHs have differing degrees of toxicity as is evidenced by their respective ecological PALs. 2-Methylnaphthalene was the only LMW PAH detected and its maximum was less than the LMW PAH ecological PAL. With the exception of dibenz(a,h)anthracene, the maximum of each of the HMW PAHs detected was greater than their ecological PAL. Because PAHs tend to occur together, cumulative effects were considered by adding the screening-level hazard quotient (SLHQs) for HMW PAHs. Because the sum of the SLHQs exceeded 1, dibenz(a,h)anthracene was also considered a COPEC.

5.5.4.3 Surface Disposal Area Site (SD-C508)

Table 5-11 presents the summary statistics for SD-C508 along with a comparison of maximum concentration with ecological PALs. The data used were surface and subsurface soil to the depth of 10 feet. Soil greater than 10 feet bgs was considered not accessible to most ecological receptors and was not included in the compilation. As described in the human health risk evaluation, the maximum for each dioxin and furan congener was adjusted to a TCDD-equivalent by applying the congener-specific TEF; the adjusted values were then summed to get a total TCDD-equivalent value for each sample. The maximum TCDD-equivalent was selected for screening. It is noted that TEFs for birds are slightly different from those for mammals and a bird-specific TCDD-equivalent could be calculated. However, there is no ecological PAL for birds. Therefore, dioxins/furans were identified as a COPEC based on a mammalian ecological PAL (SLHQ = 45). Barium, cadmium, lead, dieldrin (pesticide), and HMW PAHs were also identified as COPECs for this site (SLHQs = 2.6, 11, 2.8, 1.7, and 11, respectively).

5.5.4.4 Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) (SWMU129)

Table 5-12 presents the summary statistics for TA/AS-C129 (SWMU129), along with a comparison of maximum concentration with ecological PALs. As with SS-C507 and SD-C508, soil greater than 10 feet bgs was considered not accessible to most ecological receptors and was not included in the compilation. Because LMW and HMW PAHs have different toxicities the two categories are evaluated as separate groups. Although the individual HMW PAHs each did not exceed the ecological PALs, the cumulative HQ was slightly greater than the ESL (SLHQ = 1.2). Considering that the maximum value for each PAH was used to calculate SLHQs, the individual SLHQs were all 0.25 or less, and the cumulative HMW SLHQ was essential equal to one, potential risk from exposure to HMW PAHs at this site are expected to be low and further evaluation of PAHs is not recommended. The maximum-based SLHQ for barium exceeded one (2.1); however, the maximum detection of barium (7.07E+02 mg/kg) was only 5% greater than the established background (6.70E+02 mg/kg) and was the only sample that exceeded background. Similarly, SLHQs for lead and mercury were slightly greater than one (1.1 and 1.2, respectively), the maximum detection of mercury was less than background and the maximum for lead (1.24E+01 mg/kg) was comparable to background (1.20E+01 mg/kg). 4,4-DDT exceeded its ecological PAL (2.10E-02 mg/kg) in one sample (3.70E-02 mg/kg).

Based on this evaluation, the chemicals detected at TA/AS-C129 (SWMU129) are unlikely to pose a risk to ecological receptors.

5.5.5 Refinement of Preliminary COPECs

The initial screening to identify COPECs used the very conservative assumption that concentrations throughout the site are comparable to the maximum detected. In this way, contaminants that clearly do not pose an ecological risk can be safely eliminated from further evaluation. However, a SLHQ greater than 1 does not necessarily mean risk to ecological receptors will indeed occur. Few receptors would be expected to reside entirely at the location

with the highest concentrations. Most receptors range over a large area making a reasonable estimate of the average concentration a more appropriate exposure concentration. An acceptable exposure concentration for a site is the 95th percentile (95%) upper confidence limit (UCL) of the mean (USEPA 1997). The 95% UCL was calculated for each COPEC using USEPA's ProUCL software. As a more realistic estimate of potential risk, 95% UCLs were compared with ecological PALs. This resulted in a more refined list of COPECs on which future remedial investigations can focus.

5.5.5.1 COPEC Refinement for SS-C507

Table 5-13 presents the 95% UCLs for preliminary COPECs identified at SS-C507. Preliminary COPECs for SS-C507 were HMW PAHs, PCB-1260, and lead. The 95% UCL for lead was 4.23E+01 mg/kg resulting in a refined SLHQ of 3.8. A similar reduction in the SLHQ was observed with PCB-1260 which went from a maximum-based SLHQ of 32 to a UCL-based SLHQ of 1.6. The refined SLHQs for individual HMW PAHs were each reduced to less than 1; the sum of the SLHQs (cumulative effects) was 1.9. Therefore, it appears that potential ecological risks for SS-C507 are primarily from exposure to lead. Elevated lead concentrations (1.50E+02 to 3.00E+02 mg/kg) were found in a localized area of the site: the southeast corner between the roadway and the former OWS vault. Sample locations with lead concentration 1.50E+02 mg/kg or greater are shown in the following table.

Sample Location	Lead (mg/kg)
CA507-SS59	3.00E+02
CA507-SS57	2.70E+02
CA507-SS60	2.28E+02
CA507-SS35	2.16E+02
CA507-SS37	1.50E+02

It is concluded that potential adverse effects from exposure to lead may be associated with a relatively small area of localized elevated lead concentrations. The proximity of this location to a large expanse of uninhabitable concrete would likely reduce the number of receptors frequenting this area. Therefore, potential for risk from lead exposure at SS-C507 may be over-estimated.

5.5.5.2 COPEC Refinement for SD-C508

Table 5-14 presents the 95% UCLs for preliminary COPECs identified at SD-C508. Preliminary COPECs for SD-C508 were HMW PAHs, dioxin/furans, barium, cadmium, lead, and dieldrin. Due to the low frequency of detection (3/27), a 95% UCL was not calculated for dieldrin. The use of the 95% UCL as an exposure concentration reduced the SLHQs for the individual HMW PAHs to less than 1; however, the cumulative SLHQ for HMW PAHs was 2.3. The 95% UCL calculated for TCDD-equivalents resulted in a refined SLHQ of 14. The total TCDD-equivalents for each sample was used to generate a 95% UCL. For barium and lead, UCL-based SLHQs were slightly greater than one (1.1 each); the SLHQ for cadmium was 3.2. Considering that

most of the receptors of interest are wide-ranging and the disposal area is relatively small (approximately 1 acre), potential risk from exposure to barium, cadmium, and lead are expected to be low. Therefore, dioxins/furans are the primary drivers of potential ecological risk at SD-C508. Based on these results, further ecological evaluation may be warranted for SD-C508.

5.5.6 Conclusions of the Screening-Level Assessment

A review of basic site information on the presence or absence of ecological habitat and the presence or absence of complete exposure pathways indicated that five of the eight sites qualified for exclusion:

- SS-C501 - Former AGE Dispatch Facility Spills Site
- ST-C502 - Former Gas Station Site
- ST-C503 - Base Support/Operations Generator Former UST Site
- ST-C504 - Hospital Abandoned UST Site
- ST-C505 - Flightline Generator USTs Sites

NMED's *Ecological Site Exclusion Checklist and Decision Tree* were applied and are included in **Attachment F**.

Three sites were considered to have potential ecological habitat and were carried forward in the screening-level evaluation. As an initial screening, the maximum concentrations of chemicals detected at each site were compared with ecological PALs. If the maximum was less than the ecological PAL, the chemical was not considered a COPEC. If the maximum exceeded the ecological PAL, the chemical was evaluated further by calculating a more reasonable estimate of exposure, the 95% UCL for comparison with the ecological PAL. The results of the screening-level assessments are as follows:

- SS-C507 – POL Yard:
  - UCL-based SLHQ for lead = 3.8
  - UCL-based SLHQ for HMW PAHs = 1.9
  - UCL-based SLHQ for PCB-1260 = 1.6
  - Elevated lead concentrations were identified in the southeast corner of the site
- SD-C508- Surface Disposal Area:
  - UCL-based SLHQ for TCDD-Equivalents = 14
  - UCL-based SLHQ for HMW PAHs = 2.3
  - UCL-based SLHQ for barium = 1.1
  - UCL-based SLHQ for cadmium = 3.2
  - UCL-based SLHQ for lead = 1.1

  - Max-based SLHQ for dieldrin = 1.7
- TA/AS-C129 (SWMU129) – Waste Oil Storage Facility 244 and Leach Field Site:
  - Max-based cumulative SLHQ for HMW PAHs = 1.2
  - Max-based cumulative SLHQ for 4,4-DDT = 1.8
  - UCL-based cumulative SLHQ for 4,4-DDT = 0.00003

This screening-level evaluation is not without uncertainty. Uncertainty in assessing environmental data can arise from several sources. In this case, the main sources of uncertainty are: the representativeness of the data, the applicability and validity of the ecological PALs, the absence of ecological PALs, and the quantitation limitations of the laboratory.

Representativeness of the Data – Uncertainty can be introduced in data collection. It was assumed that all potentially impacted media were sampled sufficiently and analyzed for relevant potential COPECs. For sites with written or oral documentation of spills/leaks, confidence in data collection is high, especially when specific locations of spills or leaks are known. At all sites, sampling was biased toward known or potential releases; thus, data may over-represent potential exposures, and subsequently, potential risks.

Applicability and Validity of Ecological PALs – ESLs used to generate the ecological PALs are generally very conservative because they represent a no-effects level. When ESLs are available for more than one receptor, the lowest value was selected. This decreases the probability of eliminating sites or chemicals that may actually have the potential for adverse effects. Depending on the presence or absence of the receptor or category of receptor (e.g., mammalian herbivore) in the ecosystem being evaluated, the ecological PAL may or may not be overly conservative. ESLs based on the study of a single organism may have limited applicability to potential receptors at the site. Confidence in the applicability of the ecological PALs based on USEPA's ESSLs is high because ESSLs were derived for several categories of receptors, high standards were used in evaluating and accepting toxicological studies to be used in deriving ESSLs, and all calculations were transparent. ESSLs were available for many of the COPECs at these sites, in particular, PAHs and RCRA-metals. Therefore, confidence is high in identifying these COPECs as being of concern or not of concern.

Absence of Ecological PALs – Ecological PALs were available for most detected chemicals with the exception of carbazole and dibenzofuran at SD-C508, and petroleum compounds. Carbazole and dibenzofuran are closely related to and tend to co-occur with PAHs; therefore, further evaluation of PAHs, will also address carbazole and dibenzofuran. In addition, both chemicals were detected at a low frequency (1/27, or 0.037), suggesting that they are not wide-spread within SD-C508. While ecological PALs are not available for petroleum compounds, they are available for several of the more toxic components, specifically, BTEX and PAHs. BTEX were included in the VOC analysis and were either not detected or were detected at concentrations less than their respective ecological PALs. Therefore, the absence of ecological

PALs for petroleum compounds involves uncertainty; however, some of that uncertainty is addressed in evaluating its components or associated chemicals.

Quantitation Limitations – As noted previously, laboratory quantitation limits were in excess of the ecological PAL for mercury, PCB-1248 and several SVOCs. Therefore, these chemicals could be present at concentrations greater than their ecological PALs but are reported as not detected by the laboratory. Mercury was an analyte for SD-C508 and TA/AS-C129 (SWMU129) and was detected at concentrations greater than the ecological PAL but below background at both locations. PCBs were evaluated at all three sites and only PCB-1260 was detected (at SS-C507). None of the SVOCs with quantitation limits in excess of the ecological PAL are considered "Site-Related SVOCs." The analytes in question are: n-nitrosodimethylamine, hexachlorobenzene, hexachlorobenzene, di-n-butylphthalate, bis(2-ethylhexyl)phthalate, 2-chloronaphthalene and 2,4-dinitrophenol. These chemicals usually occur with related chemicals (e.g., other phthalates with bis(2-ethylhexyl)phthalate), and because few SVOCs were detected (with the exception of PAHs), it is unlikely that other SVOCs are present or at levels of potential concern.

SLERA Conclusions

A summary of recommendations based on results from the ecological screening evaluation is presented in the following table.

Site	Recommendation
SS-C501 - AGE Dispatch Facility Spills Site	No further evaluation. No complete exposure pathways.
ST-C502 - Former Gas Station	No further evaluation. No complete exposure pathways.
ST-C503 - Base Support/Operations Generator Former UST Site	No further evaluation. No complete exposure pathways.
ST-C504 - Hospital Abandoned UST Site	No further evaluation. No complete exposure pathways.
ST-C505 - Flightline Generator USTs Site	No further evaluation. No complete exposure pathways.
SS-C507 - Former POL Yard Refueling Area Site	Potential further evaluation. Elevated lead concentrations appear to be highly localized.
SD-C508 – Surface Disposal Area Site	Potential further evaluation. Potential exposure to dioxins/furans.
SS-C129 - Waste Oil Storage Facility 244 and Leach Field Site	No further evaluation. Negligible potential for risk from exposure to site soil.

5.6 PRELIMINARY SITE CONCEPTUAL EXPOSURE MODEL

Preliminary SCEMs were developed for each site based on historical site information and results of this investigation. The preliminary SCEMs are presented in **Figures 5-11** through **5-18**. As depicted on the SCEMs, chemicals from the primary sources may be transported away from the primary source areas, affecting other media that may in turn act as secondary sources. Leaching of the chemicals to the subsurface soil are shown as primary chemical release mechanisms.

Subsurface soils are an important secondary source of potential chemical releases. COPCs in surface and subsurface soils could leach or percolate through the subsurface soil and be released to groundwater, even though the depth to groundwater is nearly 300 feet. However, transport to groundwater at Cannon AFB is limited by the depth to groundwater, the semiarid environment, and presence of caliche layers. Additionally, the underlying Ogallala formation contains clay minerals that attenuate contaminants by adsorption (AECOM 2011).

Other release mechanisms, such as direct contact (soil ingestion and dermal contact), surface runoff, wind erosion, or volatilization to the atmosphere, are also depicted in the SCEMs. Transport by storm runoff is not considered a significant pathway for human exposure at the eight sites because there are no developed drainageways at the sites and portions of the sites are covered with pavement.

Surface soils may provide exposures to base workers (occupational exposures), hypothetical future construction workers, future trespassers, or residents. Air emissions (volatile and particulates) from surface soil may also expose base workers, construction workers, trespassers, and residents. Subsurface soils and air emissions from subsurface soil (i.e., during excavation) may expose construction workers. Groundwater is used for domestic purposes on and off base, but the depth to groundwater in the area is nearly 300 feet.

Contact with surface soil is considered to be the only complete and significant pathway for ecological receptors. However, due to the small size and highly developed nature at five of the eight sites, these five sites do not support suitable habitat for ecologically sensitive species and, therefore, do not support suitable habitat for ecological receptors. Three of the sites (SS-C507, SD-C508, and TA/AS-C129 [SWMU129]) are considered potential habitat for ecological receptors.

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB01-005			CA501-SB01-010			CA501-SB02-004		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	2.50E-02	7 / 24	3.10E+02	2.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	6.5E-03 J	2 / 24	3.44E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.2E-03 J	1 / 24	--	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	3.00E-03 J	2 / 24	1.72E+04	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	-	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.90E-02	3 / 24	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.50E-03 J	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.60E-02	3 / 24	2.29E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.60E-02	5 / 24	4.30E+01	4.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	1.1E-02 J	5 / 24	1.83E+03	1.10E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.10E-02	3 / 24	1.72E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect												
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	4.50E+00 J	2 / 24	1.00E+03	3.30E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	2.20E+01 J	8 / 24	1.00E+03	6.80E+00	2.20E+01	J	<	2.30E+01	U	6.70E+00	2.30E+01	J

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB01-005			CA501-SB01-010			CA501-SB02-004		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)												
Arsenic	5.24E+00	24 / 24	3.90E+00	**4.45E+00**	5.46E-01		3.80E+00	5.27E-01		**4.85E+00**	5.54E-01	
Barium	8.59E+02	24 / 24	1.56E+04	1.30E+02	5.46E-01		4.44E+02	5.27E-01		1.09E+02	5.54E-01	
Cadmium	3.96E-01 J	24 / 24	7.03E+01	2.63E-01	5.46E-01	J	3.26E-01	5.27E-01	J	3.03E-01	5.54E-01	J
Chromium	1.76E+01	24 / 24	1.17E+05	1.36E+01	5.46E-01		7.94E+00	5.27E-01		1.45E+01	5.54E-01	
Lead	2.52E+01	24 / 24	4.00E+02	8.43E+00	5.46E-01		5.50E+00	5.27E-01		9.00E+00	5.54E-01	
Selenium	1.51E-01 J	16 / 24	3.91E+02	1.24E-01	5.46E-01	J	<	5.27E-01	U	1.06E-01	5.54E-01	J
Silver	7.77E-02 J	6 / 24	3.91E+02	<	5.46E-01	U	<	5.27E-01	U	<	5.54E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB02-009			CA501-SB03-004			CA501-SB03-010		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	2.50E-02	7 / 24	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Acenaphthene	6.5E-03 J	2 / 24	3.44E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Acenaphthylene	3.2E-03 J	1 / 24	--	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Anthracene	3.00E-03 J	2 / 24	1.72E+04	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	-	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	1.90E-02	3 / 24	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	4.50E-03 J	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	2.60E-02	3 / 24	2.29E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	2.60E-02	5 / 24	4.30E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Phenanthrene	1.1E-02 J	5 / 24	1.83E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Pyrene	3.10E-02	3 / 24	1.72E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect												
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	4.50E+00 J	2 / 24	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.20E+01	U
Oil Range Organics	2.20E+01 J	8 / 24	1.00E+03	<	2.30E+01	U	<	2.30E+01	U	<	2.30E+01	U

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB02-009			CA501-SB03-004			CA501-SB03-010		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)												
Arsenic	5.24E+00	24 / 24	3.90E+00	2.77E+00	5.67E-01		**4.41E+00**	5.49E-01		3.57E+00	5.42E-01	
Barium	8.59E+02	24 / 24	1.56E+04	2.62E+02	5.67E-01		9.41E+01	5.49E-01		7.52E+02	5.42E-01	
Cadmium	3.96E-01 J	24 / 24	7.03E+01	1.78E-01	5.67E-01	J	2.89E-01	5.49E-01	J	2.50E-01	5.42E-01	J
Chromium	1.76E+01	24 / 24	1.17E+05	4.15E+00	5.67E-01		1.39E+01	5.49E-01		6.67E+00	5.42E-01	
Lead	2.52E+01	24 / 24	4.00E+02	2.21E+00	5.67E-01		9.77E+00	5.49E-01		4.09E+00	5.42E-01	
Selenium	1.51E-01 J	16 / 24	3.91E+02	<	5.67E-01	U	1.18E-01	5.49E-01	J	8.22E-02	5.42E-01	J
Silver	7.77E-02 J	6 / 24	3.91E+02	<	5.67E-01	U	<	5.49E-01	U	<	5.42E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB03-015			CA501-SB04-004			CA501-SB04-009		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	2.50E-02	7 / 24	3.10E+02	<	1.10E-02	U	2.10E-02	1.10E-02		<	1.20E-02	U
Acenaphthene	6.5E-03 J	2 / 24	3.44E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Acenaphthylene	3.2E-03 J	1 / 24	--	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Anthracene	3.00E-03 J	2 / 24	1.72E+04	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	-	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	1.90E-02	3 / 24	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	4.50E-03 J	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	2.60E-02	3 / 24	2.29E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	2.60E-02	5 / 24	4.30E+01	<	1.10E-02	U	3.80E-03	1.10E-02	J	<	1.20E-02	U
Phenanthrene	1.1E-02 J	5 / 24	1.83E+03	<	1.10E-02	U	5.20E-03	1.10E-02	J	<	1.20E-02	U
Pyrene	3.10E-02	3 / 24	1.72E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect												
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	4.50E+00 J	2 / 24	1.00E+03	<	1.10E+01	U	4.50E+00	1.10E+01	J	<	1.20E+01	U
Oil Range Organics	2.20E+01 J	8 / 24	1.00E+03	<	2.20E+01	U	1.40E+01	2.20E+01	J	<	2.40E+01	U

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB03-015			CA501-SB04-004			CA501-SB04-009		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)												
Arsenic	5.24E+00	24 / 24	3.90E+00	1.97E+00	5.09E-01		**4.92E+00**	5.47E-01		2.69E+00	5.44E-01	
Barium	8.59E+02	24 / 24	1.56E+04	3.69E+02	5.09E-01		1.11E+02	5.47E-01		8.59E+02	5.44E-01	
Cadmium	3.96E-01 J	24 / 24	7.03E+01	1.89E-01	5.09E-01	J	3.12E-01	5.47E-01	J	2.60E-01	5.44E-01	J
Chromium	1.76E+01	24 / 24	1.17E+05	6.13E+00	5.09E-01		1.40E+01	5.47E-01		5.60E+00	5.44E-01	
Lead	2.52E+01	24 / 24	4.00E+02	4.07E+00	5.09E-01		8.98E+00	5.47E-01		3.47E+00	5.44E-01	
Selenium	1.51E-01 J	16 / 24	3.91E+02	<	5.09E-01	U	1.43E-01	5.47E-01	J	<	5.44E-01	U
Silver	7.77E-02 J	6 / 24	3.91E+02	<	5.09E-01	U	<	5.47E-01	U	<	5.44E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB05-005			CA501-SB05-010			CA501-SB06-005		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	2.50E-02	7 / 24	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	1.20E-02	1.20E-02	
Acenaphthene	6.5E-03 J	2 / 24	3.44E+03	<	1.10E-02	U	<	1.10E-02	U	6.50E-03	1.20E-02	J
Acenaphthylene	3.2E-03 J	1 / 24	--	<	1.10E-02	U	<	1.10E-02	U	3.20E-03	1.20E-02	J
Anthracene	3.00E-03 J	2 / 24	1.72E+04	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	-	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	1.90E-02	3 / 24	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	4.50E-03 J	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	2.60E-02	3 / 24	2.29E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	2.60E-02	5 / 24	4.30E+01	<	1.10E-02	U	<	1.10E-02	U	2.60E-02	1.20E-02	
Phenanthrene	1.1E-02 J	5 / 24	1.83E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Pyrene	3.10E-02	3 / 24	1.72E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect												
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	4.50E+00 J	2 / 24	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.20E+01	U
Oil Range Organics	2.20E+01 J	8 / 24	1.00E+03	<	2.20E+01	U	<	2.30E+01	U	6.00E+00	2.30E+01	J

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB05-005			CA501-SB05-010			CA501-SB06-005		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)												
Arsenic	5.24E+00	24 / 24	3.90E+00	**4.50E+00**	5.52E-01		**4.07E+00**	5.48E-01		**5.24E+00**	5.43E-01	
Barium	8.59E+02	24 / 24	1.56E+04	8.44E+01	5.52E-01		6.62E+02	5.48E-01		1.34E+02	5.43E-01	
Cadmium	3.96E-01 J	24 / 24	7.03E+01	2.67E-01	5.52E-01	J	3.54E-01	5.48E-01	J	3.96E-01	5.43E-01	J
Chromium	1.76E+01	24 / 24	1.17E+05	1.36E+01	5.52E-01		8.24E+00	5.48E-01		1.76E+01	5.43E-01	
Lead	2.52E+01	24 / 24	4.00E+02	8.83E+00	5.52E-01		5.55E+00	5.48E-01		1.01E+01	5.43E-01	
Selenium	1.51E-01 J	16 / 24	3.91E+02	1.08E-01	5.52E-01	J	7.37E-02	5.48E-01	J	1.51E-01	5.43E-01	J
Silver	7.77E-02 J	6 / 24	3.91E+02	<	5.52E-01	U	<	5.48E-01	U	7.77E-02	5.43E-01	J

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB06-009			CA501-SB07-005			CA501-SB07-010		
DATE COLLECTED				January 30, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	2.50E-02	7 / 24	3.10E+02	9.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	6.5E-03 J	2 / 24	3.44E+03	3.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.2E-03 J	1 / 24	--	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	3.00E-03 J	2 / 24	1.72E+04	3.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	1.48E+00	1.80E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	1.48E-01	2.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	1.48E+00	2.80E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	-	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	1.48E+01	7.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.90E-02	3 / 24	1.48E+02	1.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.50E-03 J	3 / 24	1.48E-01	3.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.60E-02	3 / 24	2.29E+03	2.60E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	1.48E+00	1.10E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.60E-02	5 / 24	4.30E+01	1.30E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	1.1E-02 J	5 / 24	1.83E+03	5.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.10E-02	3 / 24	1.72E+03	3.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect												
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	4.50E+00 J	2 / 24	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	2.20E+01 J	8 / 24	1.00E+03	1.90E+01	2.30E+01	J	1.40E+01	2.30E+01	J	<	2.20E+01	U

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB06-009			CA501-SB07-005			CA501-SB07-010		
DATE COLLECTED				January 30, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)												
Arsenic	5.24E+00	24 / 24	3.90E+00	3.62E+00	5.43E-01		**4.50E+00**	5.55E-01		**3.98E+00**	5.59E-01	
Barium	8.59E+02	24 / 24	1.56E+04	2.88E+02	5.43E-01		1.17E+02	5.55E-01		6.02E+02	5.59E-01	
Cadmium	3.96E-01 J	24 / 24	7.03E+01	2.75E-01	5.43E-01	J	2.95E-01	5.55E-01	J	3.66E-01	5.59E-01	J
Chromium	1.76E+01	24 / 24	1.17E+05	1.02E+01	5.43E-01		1.35E+01	5.55E-01		9.20E+00	5.59E-01	
Lead	2.52E+01	24 / 24	4.00E+02	5.36E+00	5.43E-01		2.52E+01	5.55E-01		5.65E+00	5.59E-01	
Selenium	1.51E-01 J	16 / 24	3.91E+02	8.11E-02	5.43E-01	J	1.34E-01	5.55E-01	J	<	5.59E-01	U
Silver	7.77E-02 J	6 / 24	3.91E+02	<	5.43E-01	U	5.74E-02	5.55E-01	J	<	5.59E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB08-005			CA501-SB08-010			CA501-SB09-004		
DATE COLLECTED				January 30, 2013			January 30, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	2.50E-02	7 / 24	3.10E+02	<	1.10E-02	U	3.10E-03	1.10E-02	J	<	1.10E-02	U
Acenaphthene	6.5E-03 J	2 / 24	3.44E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.2E-03 J	1 / 24	--	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	3.00E-03 J	2 / 24	1.72E+04	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	-	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.90E-02	3 / 24	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.50E-03 J	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.60E-02	3 / 24	2.29E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.60E-02	5 / 24	4.30E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	1.1E-02 J	5 / 24	1.83E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.10E-02	3 / 24	1.72E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect												
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	4.50E+00 J	2 / 24	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	2.20E+01 J	8 / 24	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB08-005			CA501-SB08-010			CA501-SB09-004		
DATE COLLECTED				January 30, 2013			January 30, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)												
Arsenic	5.24E+00	24 / 24	3.90E+00	**4.67E+00**	5.34E-01		3.04E+00	5.30E-01		**4.62E+00**	5.48E-01	
Barium	8.59E+02	24 / 24	1.56E+04	9.45E+01	5.34E-01		4.25E+02	5.30E-01		8.80E+01	5.48E-01	
Cadmium	3.96E-01 J	24 / 24	7.03E+01	2.95E-01	5.34E-01	J	2.48E-01	5.30E-01	J	3.16E-01	5.48E-01	J
Chromium	1.76E+01	24 / 24	1.17E+05	1.52E+01	5.34E-01		7.58E+00	5.30E-01		1.52E+01	5.48E-01	
Lead	2.52E+01	24 / 24	4.00E+02	9.69E+00	5.34E-01		4.16E+00	5.30E-01		9.16E+00	5.48E-01	
Selenium	1.51E-01 J	16 / 24	3.91E+02	1.33E-01	5.34E-01	J	6.19E-02	5.30E-01	J	1.28E-01	5.48E-01	J
Silver	7.77E-02 J	6 / 24	3.91E+02	5.58E-02	5.34E-01	J	<	5.30E-01	U	6.07E-02	5.48E-01	J

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB09-010			CA501-SB09-015			CA501-SB10-005		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	2.50E-02	7 / 24	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	6.5E-03 J	2 / 24	3.44E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.2E-03 J	1 / 24	--	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	3.00E-03 J	2 / 24	1.72E+04	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	-	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.90E-02	3 / 24	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.50E-03 J	3 / 24	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.60E-02	3 / 24	2.29E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.60E-02	5 / 24	4.30E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	1.1E-02 J	5 / 24	1.83E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.10E-02	3 / 24	1.72E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect												
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	4.50E+00 J	2 / 24	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	2.20E+01 J	8 / 24	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB09-010			CA501-SB09-015			CA501-SB10-005		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)												
Arsenic	5.24E+00	24 / 24	3.90E+00	3.51E+00	5.31E-01		2.35E+00	5.32E-01		**5.10E+00**	5.41E-01	
Barium	8.59E+02	24 / 24	1.56E+04	6.39E+02	5.31E-01		1.10E+02	5.32E-01		1.31E+02	5.41E-01	
Cadmium	3.96E-01 J	24 / 24	7.03E+01	2.80E-01	5.31E-01	J	2.72E-01	5.32E-01	J	3.09E-01	5.41E-01	J
Chromium	1.76E+01	24 / 24	1.17E+05	8.40E+00	5.31E-01		6.93E+00	5.32E-01		1.43E+01	5.41E-01	
Lead	2.52E+01	24 / 24	4.00E+02	4.98E+00	5.31E-01		4.68E+00	5.32E-01		8.90E+00	5.41E-01	
Selenium	1.51E-01 J	16 / 24	3.91E+02	<	5.31E-01	U	<	5.32E-01	U	1.43E-01	5.41E-01	J
Silver	7.77E-02 J	6 / 24	3.91E+02	<	5.31E-01	U	<	5.32E-01	U	6.64E-02	5.41E-01	J

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB10-010			CA501-SB11-005			CA501-SB11-009		
DATE COLLECTED				January 29, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	2.50E-02	7 / 24	3.10E+02	2.90E-03	1.10E-02	J	<	1.10E-02	U	4.90E-03	1.10E-02	J
Acenaphthene	6.5E-03 J	2 / 24	3.44E+03	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.2E-03 J	1 / 24	--	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	3.00E-03 J	2 / 24	1.72E+04	<	1.10E-02	U	<	1.10E-02	U	3.00E-03	1.10E-02	J
Benzo(a)anthracene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	8.40E-03	1.10E-02	J	1.70E-02	1.10E-02	
Benzo(a)pyrene	2.20E-02	3 / 24	1.48E-01	<	1.10E-02	U	1.40E-02	1.10E-02		2.20E-02	1.10E-02	
Benzo(b)fluoranthene	2.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	1.80E-02	1.10E-02		2.60E-02	1.10E-02	
Benzo(g,h,i)perylene	4.00E-02	3 / 24	-	<	1.10E-02	U	4.00E-02	1.10E-02		1.70E-02	1.10E-02	
Benzo(k)fluoranthene	1.10E-02	3 / 24	1.48E+01	<	1.10E-02	U	5.30E-03	1.10E-02	J	1.10E-02	1.10E-02	
Chrysene	1.90E-02	3 / 24	1.48E+02	<	1.10E-02	U	5.40E-03	1.10E-02	J	1.90E-02	1.10E-02	
Dibenz(a,h)anthracene	4.50E-03 J	3 / 24	1.48E-01	<	1.10E-02	U	4.50E-03	1.10E-02	J	3.70E-03	1.10E-02	J
Fluoranthene	2.60E-02	3 / 24	2.29E+03	<	1.10E-02	U	1.00E-02	1.10E-02	J	2.40E-02	1.10E-02	
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	1.48E+00	<	1.10E-02	U	1.80E-02	1.10E-02		1.30E-02	1.10E-02	
Naphthalene	2.60E-02	5 / 24	4.30E+01	<	1.10E-02	U	4.20E-03	1.10E-02	J	<	1.10E-02	U
Phenanthrene	1.1E-02 J	5 / 24	1.83E+03	<	1.10E-02	U	3.50E-03	1.10E-02	J	8.10E-03	1.10E-02	J
Pyrene	3.10E-02	3 / 24	1.72E+03	<	1.10E-02	U	9.40E-03	1.10E-02	J	2.70E-02	1.10E-02	
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect												
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	4.50E+00 J	2 / 24	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	2.20E+01 J	8 / 24	1.00E+03	<	2.20E+01	U	1.80E+01	2.30E+01	J	2.20E+01	2.20E+01	J

TABLE 5-1
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-C501)

FIELD ID			Residential Human Health	CA501-SB10-010			CA501-SB11-005			CA501-SB11-009		
DATE COLLECTED				January 29, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)												
Arsenic	5.24E+00	24 / 24	3.90E+00	3.48E+00	5.50E-01		**4.93E+00**	5.59E-01		2.67E+00	5.38E-01	
Barium	8.59E+02	24 / 24	1.56E+04	4.43E+02	5.50E-01		1.48E+02	5.59E-01		7.31E+02	5.38E-01	
Cadmium	3.96E-01 J	24 / 24	7.03E+01	3.21E-01	5.50E-01	J	2.80E-01	5.59E-01	J	2.67E-01	5.38E-01	J
Chromium	1.76E+01	24 / 24	1.17E+05	7.66E+00	5.50E-01		1.48E+01	5.59E-01		5.75E+00	5.38E-01	
Lead	2.52E+01	24 / 24	4.00E+02	4.82E+00	5.50E-01		9.14E+00	5.59E-01		3.15E+00	5.38E-01	
Selenium	1.51E-01 J	16 / 24	3.91E+02	<	5.50E-01	U	1.15E-01	5.59E-01	J	7.21E-02	5.38E-01	J
Silver	7.77E-02 J	6 / 24	3.91E+02	<	5.50E-01	U	5.67E-02	5.59E-01	J	<	5.38E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB01-004			CA502-SB01-010			CA502-SB01-015		
DATE COLLECTED				January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	4.80E-03	U	3.90E-03	4.60E-03	J	<	5.60E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	1.70E-02	2.20E-02	J
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	7.10E-03	2.20E-02	J
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	5.30E-03	1.10E-02	J	1.10E-02	2.20E-02	J
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	3.20E-03	1.10E-02	J	7.60E-03	2.20E-02	J
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	2.20E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	2.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	2.20E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	2.20E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	3.70E+00	1.10E+01	J	5.30E+00	1.10E+01	J
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	1.80E+01	2.20E+01	J	1.20E+01	2.20E+01	J	4.10E+01	2.20E+01	
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	9.30E-01	U	<	9.10E-01	U	<	1.20E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	8.57E+00	5.36E-01		9.30E+00	5.57E-01		6.52E+00	5.46E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB01-020			CA502-SB01-025			CA502-SB01-030		
DATE COLLECTED				January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	6.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.30E+01	U	<	2.30E+01	U	<	2.20E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.30E+00	U	<	1.20E+00	U	<	1.20E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	2.17E+00	5.72E-01		2.87E+00	5.54E-01		2.50E+00	5.17E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB02-005			CA502-SB02-010			CA502-SB02-015		
DATE COLLECTED				January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	4.80E-03	U	<	5.20E-03	U	<	5.10E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	3.00E-03	1.10E-02	J
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	2.80E+01	2.30E+01		<	2.30E+01	U	<	2.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	9.70E-01	U	<	1.00E+00	U	<	1.00E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	5.41E+00	5.52E-01		3.89E+00	5.59E-01		2.22E+00	5.26E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB02-020			CA502-SB02-025			CA502-SB02-030		
DATE COLLECTED				January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	6.90E-03	U	<	5.40E-03	U	<	5.50E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	3.80E-03	1.10E-02	J	3.70E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	3.20E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	2.00E+01	2.20E+01	J	2.10E+01	2.30E+01	J	<	2.20E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	9.50E-01	U	<	1.20E+00	U	<	1.10E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	3.66E+00	5.37E-01		2.63E+00	5.38E-01		4.28E+00	5.34E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB03-005			CA502-SB03-010			CA502-SB03-015		
DATE COLLECTED				February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.30E-03	U	<	6.20E-03	U	<	5.10E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.20E+01	U	<	1.20E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.30E+01	U	<	2.30E+01	U	<	2.20E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	9.50E-01	U	<	1.20E+00	U	<	1.10E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	5.59E+00	5.68E-01		2.66E+00	5.40E-01		5.64E+00	5.50E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB03-020			CA502-SB03-025			CA502-SB03-030		
DATE COLLECTED				February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.00E+00	U	<	1.10E+00	U	<	1.20E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	6.88E+00	5.58E-01		2.20E+00	5.65E-01		2.02E+00	5.11E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB04-005			CA502-SB04-008			CA502-SB04-010		
DATE COLLECTED				January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	4.50E-03	U	<	4.90E-03	U	2.90E-02	4.60E-03	
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	3.70E-03	1.10E-02	J	5.20E-02	1.10E-02	
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	7.10E-03	1.10E-02	J	4.20E-02	1.10E-02		2.90E-02	1.10E-02	
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	9.70E-03	1.10E-02	J	2.50E-02	1.10E-02		2.20E-02	1.10E-02	
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	9.50E-03	1.10E-02	J	3.70E-02	1.10E-02		2.50E-02	1.10E-02	
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	5.20E-03	1.10E-02	J	1.00E-02	1.10E-02	J	1.00E-02	1.10E-02	J
Chrysene	2.90E-02	3 / 74	1.48E+02	5.40E-03	1.10E-02	J	2.90E-02	1.10E-02		2.80E-02	1.10E-02	
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	7.50E-03	1.10E-02	J	5.70E-03	1.10E-02	J	6.00E-03	1.10E-02	J
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	9.40E-03	1.10E-02	J	9.50E-03	1.10E-02	J	1.20E-02	1.10E-02	
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	1.20E+01	1.10E+01		2.10E+01	1.10E+01	
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	1.80E+01	2.20E+01	J	4.00E+01	2.30E+01		2.50E+01	2.20E+01	
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	9.10E-01	8.80E-01		<	1.00E+00	U	1.40E+00	9.40E-01	
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	1.00E+01	5.51E-01		9.23E+00	5.37E-01		1.09E+01	5.46E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB04-015			CA502-SB04-020			CA502-SB04-025		
DATE COLLECTED				January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.10E-03	U	<	6.30E-03	U	<	7.30E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	5.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	2.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.00E+00	U	<	1.10E+00	U	<	1.30E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	5.30E+00	5.33E-01		5.85E+00	5.47E-01		3.38E+00	5.45E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB04-030			CA502-SB05-005			CA502-SB05-010		
DATE COLLECTED				January 28, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	4.40E-03	U	<	4.90E-03	U	<	4.60E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	5.00E+00	1.20E+01	J	<	1.20E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.10E+01	U	6.10E+01	2.40E+01		1.80E+01	2.40E+01	J
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	9.20E-01	U	<	1.10E+00	U	<	1.00E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	2.03E+00	5.01E-01		1.32E+02	5.75E-01		6.32E+01	5.73E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB05-015			CA502-SB05-020			CA502-SB05-025		
DATE COLLECTED				February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	7.20E-03	U	<	7.30E-03	U	<	4.90E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.20E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.30E+00	U	<	1.60E+00	U	<	1.00E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	2.80E+01	5.06E-01		1.81E+01	5.76E-01		1.55E+01	5.53E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB05-030			CA502-SB06-005			CA502-SB06-010		
DATE COLLECTED				February 1, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.50E-03	U	<	5.00E-03	U	<	4.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.20E+01	U	<	1.20E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	6.70E+00	2.40E+01	J	<	2.30E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.10E+00	U	<	1.10E+00	U	<	9.60E-01	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	1.57E+01	5.54E-01		6.69E+00	5.86E-01		3.32E+00	5.71E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB06-015			CA502-SB06-020			CA502-SB06-025		
DATE COLLECTED				January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	6.70E-03	U	<	6.50E-03	U	<	5.70E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	3.10E+00	1.10E+01	J
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	<	2.30E+01	U	1.10E+01	2.30E+01	J
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.10E+00	U	<	1.30E+00	U	<	1.20E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	1.55E+00	5.30E-01		2.35E+00	5.62E-01		2.66E+00	5.57E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB06-030			CA502-SB07-005			CA502-SB07-010		
DATE COLLECTED				January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.10E-03	U	<	4.80E-03	U	<	5.10E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	3.40E+00	1.10E+01	J	4.70E+00	1.10E+01	J	3.10E+00	1.20E+01	J
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	2.90E+01	2.20E+01		<	2.30E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.10E+00	U	<	9.70E-01	U	<	1.00E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	1.95E+00	4.96E-01		3.11E+01	5.46E-01	J	4.57E+00	5.54E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:
BOLD Result exceeds Residential Human Health PAL
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB07-015			CA502-SB07-020			CA502-SB07-025		
DATE COLLECTED				January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.50E-03	U	<	6.30E-03	U	<	5.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	3.50E+00	1.10E+01	J	3.50E+00	1.10E+01	J	3.30E+00	1.20E+01	J
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.30E+01	U	7.80E+00	2.30E+01	J	<	2.40E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.20E+00	U	<	1.20E+00	U	<	1.30E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	4.74E+00	5.42E-01		3.23E+00	5.47E-01		2.64E+00	5.73E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:
BOLD Result exceeds Residential Human Health PAL
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB07-030			CA502-SB08-005			CA502-SB08-010		
DATE COLLECTED				January 31, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.50E-03	U	<	5.20E-03	U	<	5.50E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	3.30E+00	1.10E+01	J	<	1.20E+01	U	<	1.20E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	2.20E+01	2.30E+01	J	<	2.30E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	2.36E+00	5.30E-01		6.90E+00	5.78E-01		3.71E+00	5.66E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB08-015			CA502-SB08-018			CA502-SB08-025		
DATE COLLECTED				January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.70E-03	U	<	4.50E-03	U	<	6.70E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	3.50E+00	1.10E+01	J	3.60E+00	1.20E+01	J
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	8.50E+00	2.30E+01	J	<	2.40E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.30E+00	U	<	1.00E+00	U	<	1.30E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	1.65E+00	5.39E-01		1.94E+00	5.52E-01		2.57E+00	5.80E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB08-030			CA502-SB09-005			CA502-SB09-010		
DATE COLLECTED				January 30, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.50E-03	U	<	4.90E-03	U	<	4.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	3.40E+00	1.10E+01	J	<	1.20E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.00E+00	U	<	1.00E+00	U	<	9.50E-01	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	2.93E+00	5.31E-01	J	7.31E+01	5.32E-01		5.93E+01	5.66E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB09-015			CA502-SB09-020			CA502-SB09-025		
DATE COLLECTED				February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	6.30E-03	U	<	6.20E-03	U	<	5.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.30E+00	U	<	1.20E+00	U	<	1.10E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	5.93E+00	5.27E-01		1.12E+01	5.34E-01		4.92E+00	5.38E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB09-030			CA502-SB10-005			CA502-SB10-010		
DATE COLLECTED				February 1, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.20E-03	U	<	5.40E-03	U	<	5.90E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.20E+01	U	<	1.20E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	9.50E+00	2.40E+01	J	<	2.40E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.00E+00	U	<	1.10E+00	U	<	1.10E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	2.91E+00	5.13E-01		5.66E+00	5.65E-01		3.25E+00	5.73E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB10-015			CA502-SB10-020			CA502-SB10-025		
DATE COLLECTED				February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.50E-03	U	<	5.90E-03	U	<	5.70E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.20E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.30E+01	U	<	2.30E+01	U	<	2.30E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.20E+00	U	<	1.40E+00	U	<	1.10E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	2.20E+00	5.28E-01		1.77E+00	5.64E-01		2.86E+00	5.68E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB10-030			CA502-SB11-005			CA502-SB11-010		
DATE COLLECTED				February 3, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.60E-03	U	<	5.20E-03	U	<	5.90E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.20E+01	U	4.10E+00	1.20E+01	J
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.20E+01	U	<	2.40E+01	U	<	2.40E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.10E+00	U	<	1.00E+00	U	<	1.10E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	3.35E+00	5.39E-01		4.53E+01	5.71E-01		6.02E+01	5.48E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB11-015			CA502-SB11-020			CA502-SB11-025		
DATE COLLECTED				February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.90E-03	U	<	4.70E-03	U	<	6.00E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.20E+01	U	<	1.10E+01	U	<	1.20E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.40E+01	U	<	2.30E+01	U	<	2.30E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.10E+00	U	<	9.80E-01	U	<	1.10E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	7.20E+00	5.58E-01		5.94E+00	5.49E-01		2.62E+00	5.64E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB11-028			CA502-SB11-035			CA502-SB11-040		
DATE COLLECTED				February 1, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.40E-03	U	<	5.00E-03	U	<	5.50E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03									
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.20E+00	U	<	1.10E+00	U	<	1.10E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00									
Barium	1.42E+03	5 / 5	1.56E+04									
Cadmium	2.32E-01	5 / 5	7.03E+01									
Chromium	1.24E+01	5 / 5	1.17E+05									
Lead	1.32E+02	74 / 74	4.00E+02	5.65E+00	5.54E-01		2.30E+00	5.56E-01		2.12E+00	5.32E-01	
Selenium	1.86E-01	5 / 5	3.91E+02									

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB12-005			CA502-SB12-010			CA502-SB13-004		
DATE COLLECTED				January 31, 2013			January 31, 2013			February 1, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	3.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	3.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03	4.60E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03	3.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)												
All nondetect			--									
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	1.40E+01	1.10E+01		2.10E+01	1.10E+01		<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	6.60E+01	2.30E+01		1.20E+02	2.30E+01		1.90E+01	2.20E+01	J
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	9.50E-01	U	<	8.70E-01	U	<	1.10E+00	U
METALS (mg/kg)												
Arsenic	3.75E+00	5 / 5	3.90E+00	3.75E+00	5.52E-01		2.92E+00	5.61E-01		3.69E+00	5.28E-01	
Barium	1.42E+03	5 / 5	1.56E+04	1.57E+02	5.52E-01		7.27E+02	5.61E-01		2.12E+02	5.28E-01	
Cadmium	2.32E-01	5 / 5	7.03E+01	2.13E-01	5.52E-01	J	2.13E-01	5.61E-01	J	2.29E-01	5.28E-01	J
Chromium	1.24E+01	5 / 5	1.17E+05	1.04E+01	5.52E-01		7.75E+00	5.61E-01		1.24E+01	5.28E-01	
Lead	1.32E+02	74 / 74	4.00E+02	8.94E+00	5.52E-01		1.23E+01	5.61E-01		9.01E+00	5.28E-01	
Selenium	1.86E-01	5 / 5	3.91E+02	1.24E-01	5.52E-01	J	7.94E-02	5.61E-01	J	1.86E-01	5.28E-01	J

Notes:

BOLD Result exceeds Residential Human Health PAL

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-2
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			Residential Human Health	CA502-SB13-009			CA502-SB13-012		
DATE COLLECTED				February 1, 2013			February 1, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)									
Naphthalene	2.90E-02	2 / 74	4.30E+01	<	5.50E-03	U	<	5.60E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)									
All nondetect			--						
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)									
2-Methylnaphthalene	5.20E-02	6 / 74	3.10E+02	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.00E-02	3 / 74	1.48E+01	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	1.48E+02	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	1.48E-01	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	2.29E+03	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	1.48E+00	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	1.72E+03	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)									
All nondetect			--						
PETROLEUM HYDROCARBONS (mg/kg)									
Diesel Range Organics	2.10E+01	19 / 74	1.00E+03	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+02	22 / 74	1.00E+03	8.50E+00	2.20E+01	J	<	2.30E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	1.00E+03	<	1.10E+00	U	<	1.10E+00	U
METALS (mg/kg)									
Arsenic	3.75E+00	5 / 5	3.90E+00	2.67E+00	5.40E-01		2.73E+00	5.32E-01	
Barium	1.42E+03	5 / 5	1.56E+04	1.42E+03	5.40E-01		1.06E+03	5.32E-01	
Cadmium	2.32E-01	5 / 5	7.03E+01	2.19E-01	5.40E-01	J	2.32E-01	5.32E-01	J
Chromium	1.24E+01	5 / 5	1.17E+05	7.21E+00	5.40E-01		6.35E+00	5.32E-01	
Lead	1.32E+02	74 / 74	4.00E+02	3.84E+00	5.40E-01		3.40E+00	5.32E-01	
Selenium	1.86E-01	5 / 5	3.91E+02	7.23E-02	5.40E-01	J	7.35E-02	5.32E-01	J

Notes:
BOLD Result exceeds Residential Human Health PAL
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-3
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

FIELD ID			Residential Human Health PAL	CA503-SB01-005			CA503-SB01-010			CA503-SB01-015		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
Benzo(a)anthracene	2.10E-02	9 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03 J	3 / 33	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03 J	1 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.10E+01	13 / 33	1.00E+03	3.70E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	1.00E+03	2.00E+01	2.10E+01	J	<	2.30E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-3
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

FIELD ID			Residential Human Health PAL	CA503-SB01-020			CA503-SB01-024			CA503-SB02-005		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
Benzo(a)anthracene	2.10E-02	9 / 33	1.48E+00	4.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03 J	3 / 33	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03 J	1 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.10E+01	13 / 33	1.00E+03	2.40E+01	1.10E+01		1.20E+01	1.10E+01		5.10E+00	1.10E+01	J
Oil Range Organics	5.60E+01	10 / 33	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	1.90E+01	2.10E+01	J

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-3
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

FIELD ID			Residential Human Health PAL	CA503-SB02-010			CA503-SB02-015			CA503-SB02-020		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
Benzo(a)anthracene	2.10E-02	9 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03 J	3 / 33	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03 J	1 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.10E+01	13 / 33	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-3
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

FIELD ID			Residential Human Health PAL	CA503-SB02-025			CA503-SB03-005			CA503-SB03-010		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
Benzo(a)anthracene	2.10E-02	9 / 33	1.48E+00	<	1.10E-02	U	3.40E-03	1.10E-02	J	1.20E-02	1.10E-02	
Benzo(a)pyrene	2.10E-02	5 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	1.20E-02	1.10E-02	
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.48E+00	<	1.10E-02	U	4.20E-03	1.10E-02	J	1.60E-02	1.10E-02	
Benzo(k)fluoranthene	9.10E-03 J	3 / 33	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	5.30E-03	1.10E-02	J
Chrysene	1.80E-02	4 / 33	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	1.00E-02	1.10E-02	J
Dibenz(a,h)anthracene	4.00E-03 J	1 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	8.10E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.10E+01	13 / 33	1.00E+03	5.10E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	1.00E+03	<	2.20E+01	U	1.60E+01	2.20E+01	J	1.70E+01	2.20E+01	J

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-3
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

FIELD ID			Residential Human Health PAL	CA503-SB03-015			CA503-SB03-020			CA503-SB03-023		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
Benzo(a)anthracene	2.10E-02	9 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03 J	3 / 33	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03 J	1 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.10E+01	13 / 33	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	1.00E+03	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-3
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

FIELD ID			Residential Human Health PAL	CA503-SB04-005			CA503-SB04-010			CA503-SB04-015		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
Benzo(a)anthracene	2.10E-02	9 / 33	1.48E+00	2.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	1.48E-01	2.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.48E+00	2.70E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03 J	3 / 33	1.48E+01	9.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	1.48E+02	1.80E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03 J	1 / 33	1.48E-01	4.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.48E+00	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.10E+01	13 / 33	1.00E+03	2.10E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	1.00E+03	5.60E+01	2.20E+01		<	2.30E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-3
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

FIELD ID			Residential Human Health PAL	CA503-SB04-020			CA503-SB04-025			CA503-SB05-005		
DATE COLLECTED				January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
Benzo(a)anthracene	2.10E-02	9 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	4.70E-03	1.10E-02	J
Benzo(a)pyrene	2.10E-02	5 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	3.60E-03	1.10E-02	J
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	7.00E-03	1.10E-02	J
Benzo(k)fluoranthene	9.10E-03 J	3 / 33	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03 J	1 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.10E+01	13 / 33	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	2.90E+00	1.10E+01	J
Oil Range Organics	5.60E+01	10 / 33	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	2.60E+01	2.20E+01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-3
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

FIELD ID			Residential Human Health PAL	CA503-SB05-10			CA503-SB05-015			CA503-SB05-020		
DATE COLLECTED				January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
Benzo(a)anthracene	2.10E-02	9 / 33	1.48E+00	1.30E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	1.48E-01	1.00E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.48E+00	1.30E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03 J	3 / 33	1.48E+01	5.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	1.48E+02	9.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03 J	1 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.48E+00	5.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.10E+01	13 / 33	1.00E+03	1.00E+01	1.10E+01	J	9.80E+00	1.10E+01	J	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	1.00E+03	9.00E+00	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-3
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

FIELD ID			Residential Human Health PAL	CA503-SB05-025			CA503-SB06-005			CA503-SB06-010		
DATE COLLECTED				January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
Benzo(a)anthracene	2.10E-02	9 / 33	1.48E+00	<	1.10E-02	U	5.40E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	1.48E-01	<	1.10E-02	U	3.80E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.48E+00	<	1.10E-02	U	6.10E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03 J	3 / 33	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	1.48E+02	<	1.10E-02	U	3.50E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03 J	1 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.10E+01	13 / 33	1.00E+03	<	1.10E+01	U	2.90E+00	1.10E+01	J	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	1.00E+03	<	2.30E+01	U	5.30E+01	2.20E+01		<	2.30E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-3
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

FIELD ID			Residential Human Health PAL	CA503-SB06-015			CA503-SB06-020			CA503-SB06-025		
DATE COLLECTED				January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
Benzo(a)anthracene	2.10E-02	9 / 33	1.48E+00	<	1.10E-02	U	9.40E-03	1.10E-02	J	3.10E-03	1.10E-02	J
Benzo(a)pyrene	2.10E-02	5 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03 J	3 / 33	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03 J	1 / 33	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.10E+01	13 / 33	1.00E+03	8.10E+01	1.10E+01		3.60E+01	1.10E+01		1.10E+01	1.10E+01	J
Oil Range Organics	5.60E+01	10 / 33	1.00E+03	1.10E+01	2.20E+01	J	<	2.20E+01	U	5.90E+00	2.30E+01	J

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-3
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

FIELD ID			Residential Human Health PAL	CA503-SB07-015			CA503-SB07-020			CA503-SB07-025		
DATE COLLECTED				January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
All nondetect			--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
Benzo(a)anthracene	2.10E-02	9 / 33	1.48E+00	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	1.48E-01	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.48E+00	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	9.10E-03 J	3 / 33	1.48E+01	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Chrysene	1.80E-02	4 / 33	1.48E+02	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	4.00E-03 J	1 / 33	1.48E-01	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.48E+00	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.10E+01	13 / 33	1.00E+03	<	1.10E+01	U	<	1.20E+01	U	<	1.20E+01	U
Oil Range Organics	5.60E+01	10 / 33	1.00E+03	<	2.30E+01	U	<	2.30E+01	U	<	2.30E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health	CA504-SB01-005			CA504-SB01-010			CA504-SB01-015		
DATE COLLECTED				February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	4.80E-03	U	<	6.20E-03	U	<	6.80E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	9.70E-03	U	<	1.20E-02	U	<	1.40E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	4.80E-03	U	<	6.20E-03	U	<	6.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	4.80E-03	U	<	6.20E-03	U	<	6.80E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	4.80E-03	U	<	6.20E-03	U	<	6.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	2.40E-02	1.10E-02		6.80E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	2.90E-02	1.10E-02		3.80E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	4.80E-02	1.10E-02		6.40E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	3.20E-02	1.10E-02		5.30E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	4.60E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	1.70E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	4.60E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	1.80E+01	2.10E+01	J	1.50E+01	2.10E+01	J	<	2.30E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-020			CA504-SB01-023			CA504-SB01-025		
DATE COLLECTED				February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.40E-03	U	<	5.40E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.40E-03	U	<	5.40E-03	U	2.50E-03	5.30E-03	J
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.40E-03	U	<	5.40E-03	U	<	5.30E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.40E-03	U	<	5.40E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	3.20E-02	1.10E-02		2.00E-01	1.10E-02	J	5.00E-02	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	1.50E-02	1.10E-02		1.30E-01	1.10E-02	J	8.00E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	1.30E-02	1.10E-02		2.30E-01	1.10E-02	J	1.20E-01	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	7.70E-02	1.10E-02	J	3.10E-02	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	5.70E-01	1.10E-02	J	2.80E-01	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	1.60E-02	1.10E-02	J	1.10E-02	1.10E-02	J
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	2.20E-02	1.10E-02		3.80E-02	1.10E-02	J	3.00E-02	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	1.90E+02	1.10E+01		**3.40E+03**	1.10E+02		**2.70E+03**	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.30E+01	U	<	2.20E+02	U	2.00E+01	2.10E+01	J

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-030			CA504-SB01-035			CA504-SB01-040		
DATE COLLECTED				February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.10E-03	U	<	5.70E-03	UJ	<	5.70E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	1.10E-02	UJ	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	3.10E-02	5.10E-03		3.20E-02	5.70E-03	J	5.70E-03	5.70E-03	J
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.10E-03	U	<	5.70E-03	UJ	<	5.70E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.10E-03	U	<	5.70E-03	UJ	<	5.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	1.60E-01	1.10E-02	J	1.00E-01	1.10E-02	J	1.60E-01	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	3.70E-02	1.10E-02	J	2.80E-02	1.10E-02	J	4.00E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	6.00E-02	1.10E-02	J	7.70E-02	1.10E-02	J	6.30E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	2.00E-02	1.10E-02	J	<	1.10E-02	U	2.70E-02	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	2.00E-01	1.10E-02	J	1.80E-01	1.10E-02	J	2.40E-01	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	3.70E-03	1.10E-02	J	4.00E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	9.60E-03	1.10E-02	J	7.40E-03	1.10E-02	J	1.10E-02	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**3.15E+03**	5.30E+01		**2.60E+03**	1.10E+01		**4.00E+03**	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	1.10E+02	U	9.40E+00	2.10E+01	J	<	2.10E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health	CA504-SB01-045			CA504-SB01-050			CA504-SB01-055		
DATE COLLECTED				February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.70E-03	U	<	6.00E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	6.30E-03	5.70E-03	J	9.30E-03	6.00E-03	J	1.50E-02	5.30E-03	
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.70E-03	U	<	6.00E-03	U	<	5.30E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.70E-03	U	<	6.00E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	2.00E-01	1.10E-02	J	1.90E-01	1.10E-02	J	1.80E-01	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	5.30E-02	1.10E-02	J	5.20E-02	1.10E-02	J	5.60E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	9.20E-02	1.10E-02	J	7.80E-02	1.10E-02	J	9.70E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	3.20E-02	1.10E-02	J	3.30E-02	1.10E-02	J	3.00E-02	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	2.40E-01	1.10E-02	J	2.50E-01	1.10E-02	J	2.70E-01	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	3.90E-03	1.10E-02	J	4.40E-03	1.10E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	1.20E-02	1.10E-02	J	1.40E-02	1.10E-02	J	1.10E-02	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**4.90E+03**	1.10E+02		**4.90E+03**	1.10E+02		**6.00E+03**	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-060			CA504-SB01-065			CA504-SB01-070		
DATE COLLECTED				February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	6.20E-03	U	<	5.70E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	6.20E-03	U	<	5.70E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	6.20E-03	U	<	5.70E-03	U	<	5.40E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	6.20E-03	U	<	5.70E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	1.20E-01	1.00E-02		3.00E-02	1.00E-02		<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	5.10E-02	1.00E-02		3.60E-02	1.00E-02		1.90E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	7.90E-02	1.00E-02		4.60E-02	1.00E-02		2.10E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	2.30E-02	1.00E-02		1.50E-02	1.00E-02		6.70E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	1.30E-01	1.00E-02		6.00E-02	1.00E-02		2.80E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	7.60E-03	1.00E-02	J	6.40E-03	1.00E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	1.70E-02	1.00E-02		1.30E-02	1.00E-02		7.30E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**5.50E+03**	1.00E+02		**5.10E+03**	1.00E+02		**4.10E+03**	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-075			CA504-SB01-080			CA504-SB01-085		
DATE COLLECTED				February 5, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.10E-03	U	<	4.90E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	9.70E-03	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.10E-03	U	<	4.90E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.10E-03	U	<	4.90E-03	U	<	5.30E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.10E-03	U	<	4.90E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	1.40E-02	1.00E-02		3.40E-02	1.00E-02		1.80E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	2.30E-02	1.00E-02		1.50E-02	1.00E-02		1.40E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	2.70E-02	1.00E-02		1.50E-02	1.00E-02		1.50E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	6.20E-03	1.00E-02	J	3.80E-03	1.00E-02	J	3.50E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	4.60E-02	1.00E-02		5.70E-02	1.00E-02		4.30E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	7.50E-03	1.00E-02	J	5.30E-03	1.00E-02	J	5.10E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**6.60E+03**	1.00E+02		**5.00E+03**	1.00E+02		**4.70E+03**	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-090			CA504-SB01-095			CA504-SB01-100		
DATE COLLECTED				February 6, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.10E-03	U	<	5.10E-03	U	<	5.10E-03	UJ
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	UJ
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.10E-03	U	<	5.10E-03	U	<	5.10E-03	UJ
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.10E-03	U	<	5.10E-03	U	<	5.10E-03	UJ
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.10E-03	U	<	5.10E-03	U	<	5.10E-03	UJ
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	1.30E-02	1.00E-02		2.00E-02	1.00E-02		4.10E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	1.00E-02	1.00E-02	J	1.00E-02	1.00E-02		1.70E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	9.00E-03	1.00E-02	J	9.20E-03	1.00E-02	J	2.00E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	4.20E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	3.20E-02	1.00E-02		<	1.00E-02	U	6.90E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	4.30E-03	1.00E-02	J	4.40E-03	1.00E-02	J	6.20E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**2.80E+03**	1.00E+01		**3.00E+03**	1.00E+01		**6.20E+03**	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.20E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-105			CA504-SB01-110			CA504-SB01-115		
DATE COLLECTED				February 6, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.10E-03	U	<	5.20E-03	U	2.80E-03	4.80E-03	J
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	1.00E-02	U	2.30E-03	9.70E-03	J
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.10E-03	U	3.10E-03	5.20E-03	J	1.10E-02	4.80E-03	J
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.10E-03	U	<	5.20E-03	U	<	4.80E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.10E-03	U	<	5.20E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	1.30E-01	1.00E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	6.00E-02	1.10E-02		3.80E-02	1.10E-02		2.60E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	1.60E-02	1.10E-02		8.40E-03	1.10E-02	J	5.00E-03	1.00E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	2.50E-02	1.10E-02		1.50E-02	1.10E-02		7.50E-03	1.00E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	5.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	1.00E-01	1.10E-02		6.80E-02	1.10E-02		4.20E-02	1.00E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	5.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	7.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**7.50E+03**	1.10E+02		**6.30E+03**	1.10E+02		**3.90E+03**	1.00E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-120			CA504-SB01-125			CA504-SB01-130		
DATE COLLECTED				February 7, 2013			February 7, 2013			July 9,2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	1.30E-02	5.40E-03	J	2.00E-02	5.60E-03	J	4.40E-02	5.30E-03	
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	2.60E-02	1.10E-02	J	7.60E-02	1.10E-02	J	2.10E-01	1.10E-02	
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	2.00E-02	5.40E-03	J	4.30E-02	5.60E-03	J	2.50E-02	5.30E-03	
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	6.30E-03	5.40E-03	J	3.50E-02	5.60E-03	J	1.20E-01	5.30E-03	
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.40E-03	U	3.60E-03	5.60E-03	J	6.90E-03	5.30E-03	
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	7.10E-01	1.00E-02		5.30E-01	1.00E-02		1.40E+00	1.00E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	2.70E-02	1.00E-02		2.70E-02	1.00E-02		2.90E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	5.70E-03	1.00E-02	J	5.30E-03	1.00E-02	J	1.40E-02	1.00E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	8.70E-03	1.00E-02	J	7.90E-03	1.00E-02	J	1.80E-02	1.00E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	1.40E-02	1.00E-02	
Chrysene	4.60E+00	72 / 164	1.48E+02	4.40E-02	1.00E-02		4.30E-02	1.00E-02		4.10E-02	1.00E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	7.60E-03	1.00E-02	J
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	8.20E-03	1.00E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**4.40E+03**	1.00E+02		**4.30E+03**	1.00E+02		**2.80E+03**	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-135			CA504-SB01-140			CA504-SB01-145		
DATE COLLECTED				July 10,2013			July 10,2013			July 10,2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	1.60E-02	5.30E-03		4.10E-02	5.40E-03		8.40E-02	5.50E-06	J
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	7.30E-02	1.10E-02	J	2.10E-01	1.10E-02		3.90E-01	1.10E-02	J
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	7.60E-03	5.30E-03		2.10E-02	5.40E-03		1.40E-01	5.50E-03	J
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	4.20E-02	5.30E-03	J	1.20E-01	5.40E-03		2.20E-01	5.50E-03	J
Toluene	3.70E-02 J	18 / 164	5.27E+03	3.10E-03	5.30E-03	J	4.30E-03	5.40E-03	J	1.10E-02	5.50E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	1.10E+00	1.10E-02		1.50E+00	1.00E-02		6.90E+00	5.10E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	1.70E-02	1.10E-02		1.90E-02	1.00E-02		1.60E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	5.20E-03	1.10E-02	J	4.60E-03	1.00E-02	J	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	6.70E-03	1.10E-02	J	6.20E-03	1.00E-02	J	3.10E-03	1.00E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	3.30E-02	1.10E-02		3.80E-02	1.00E-02		2.80E-02	1.00E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	3.00E-03	1.10E-02	J	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	3.30E-03	1.10E-02	J	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**2.50E+03**	1.10E+01		**2.90E+03**	1.00E+01		**2.00E+03**	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-150			CA504-SB01-155			CA504-SB01-160		
DATE COLLECTED				July 10,2013			July 10,2013			July 10,2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	1.00E-02	5.70E-03		8.40E-02	5.10E-03		8.10E-02	5.70E-03	J
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	5.10E-02	1.10E-02		3.60E-01	1.00E-02		3.60E-01	1.10E-02	J
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	1.50E-01	5.70E-03		6.00E-02	5.10E-03		9.20E-02	5.70E-03	J
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	3.20E-02	5.70E-03		2.00E-01	5.10E-03		2.00E-01	5.70E-03	J
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.70E-03	U	1.40E-02	5.10E-03		1.10E-02	5.70E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	6.00E+00	3.10E-02		5.60E+00	3.10E-02		5.20E+00	3.10E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	1.20E-02	1.00E-02		1.00E-02	1.00E-02		1.10E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	2.30E-02	1.00E-02		1.50E-02	1.00E-02		1.30E-02	1.00E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**1.60E+03**	1.00E+01		**1.50E+03**	1.00E+01		**1.50E+03**	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-165			CA504-SB01-170			CA504-SB01-175		
DATE COLLECTED				July 10,2013			July 10,2013			July 10,2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	7.10E-02	5.80E-03	J	1.90E-01	5.30E-03	J	1.10E-01	5.10E-03	J
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	3.50E-01	1.20E-02	J	8.50E-01	1.10E-02	J	5.10E-01	1.00E-02	J
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	1.10E-01	5.80E-03	J	3.00E+00	2.70E-01	J	1.90E+00	2.80E-01	J
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	2.10E-01	5.80E-03	J	4.60E-01	5.30E-03	J	2.80E-01	5.10E-03	J
Toluene	3.70E-02 J	18 / 164	5.27E+03	4.60E-03	5.80E-03	J	2.30E-02	5.30E-03	J	1.30E-02	5.10E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	4.90E+00	3.10E-02		5.40E+00	3.10E-02		3.30E+00	2.10E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	8.80E-03	1.00E-02	J	1.00E-02	1.00E-02	J	1.10E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	2.00E-02	1.00E-02		2.10E-02	1.00E-02		9.80E-03	1.00E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**1.50E+03**	1.00E+01		**1.40E+03**	1.00E+01		9.10E+02	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.00E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-180			CA504-SB01-185			CA504-SB01-190		
DATE COLLECTED				July 10,2013			July 10,2013			July 10,2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	1.00E-01	5.00E-03	J	4.20E-02	5.00E-03	J	1.00E-01	5.10E-03	J
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	5.10E-01	1.00E-02	J	2.10E-01	1.00E-02	J	4.20E-01	1.00E-02	J
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	1.70E+00	2.60E-01	J	1.80E+00	2.50E-01	J	3.30E+00	2.30E-01	J
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	2.80E-01	5.00E-03	J	1.20E-01	5.00E-03	J	2.30E-01	5.10E-03	J
Toluene	3.70E-02 J	18 / 164	5.27E+03	1.00E-02	5.00E-03	J	6.40E-03	5.00E-03	J	3.70E-02	5.10E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	3.60E+00	3.10E-02		2.70E+00	1.00E-02		3.80E+00	2.00E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	1.00E-02	1.00E-02		1.10E-02	1.00E-02		1.20E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	1.10E-02	1.00E-02		1.00E-02	1.00E-02		9.70E-03	1.00E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**1.10E+03**	1.00E+01		8.80E+02	1.00E+01		**1.10E+03**	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.00E+01	U	<	2.00E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-195			CA504-SB01-200			CA504-SB01-205		
DATE COLLECTED				July 10,2013			July 10,2013			July 10,2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	3.00E-02	5.50E-03	J	2.00E-02	5.80E-03	J	1.40E-02	5.10E-03	J
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	1.60E-01	1.10E-02	J	1.10E-01	1.20E-02	J	7.90E-02	1.00E-02	J
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	1.90E+00	2.60E-01	J	1.70E+00	2.50E-01	J	1.70E+00	2.60E-01	J
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	9.90E-02	5.50E-03	J	7.30E-02	5.80E-03	J	5.40E-02	5.10E-03	J
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.50E-03	UJ	<	5.80E+00	UJ	2.10E-03	5.10E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	3.40E+00	1.00E-02		3.50E+00	2.10E-02		3.30E+00	1.00E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	1.10E-02	1.00E-02		1.30E-02	1.00E-02		1.30E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	9.00E-03	1.00E-02	J	1.00E-02	1.00E-02	J	8.30E-03	1.00E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	9.30E+02	1.00E+01		9.60E+02	1.00E+01		9.60E+02	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-210			CA504-SB01-215			CA504-SB01-220		
DATE COLLECTED				July 10,2013			July 10,2013			July 10,2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	2.50E-02	5.00E-03	J	<	4.80E-03	U	<	4.60E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	1.30E-01	1.00E-02	J	<	9.50E-03	U	<	9.20E-03	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	1.70E+00	2.60E-01	J	1.30E-02	4.80E-03		2.60E-02	4.60E-03	
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	8.20E-02	5.00E-03	J	<	4.80E-03	U	<	4.60E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	2.20E-03	5.00E-03	J	<	4.80E-03	U	<	4.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	2.20E+00	1.00E-02		<	1.00E-02	U	9.40E-03	1.00E-02	J
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	9.80E-03	1.00E-02	J	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	6.40E-03	1.00E-02	J	<	1.00E-02	U	<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	7.80E+02	1.00E+01		8.70E+00	1.00E+01	J	3.30E+01	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-225			CA504-SB01-230			CA504-SB01-235		
DATE COLLECTED				July 10,2013			July 11, 2013			July 11, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.10E-03	U	<	5.10E-03	U	<	4.90E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	1.00E-02	U	<	9.80E-03	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	6.30E-03	5.10E-03		1.10E-02	5.10E-03		7.00E-03	4.90E-03	
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.10E-03	U	<	5.10E-03	U	<	4.90E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.10E-03	U	<	5.10E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	7.40E+00	1.00E+01	J	5.10E+00	1.10E+01	J	3.50E+00	1.00E+01	J
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-240			CA504-SB01-245			CA504-SB01-250		
DATE COLLECTED				July 11, 2013			July 11, 2013			July 11, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	6.40E-03	U	<	5.20E-03	U	<	5.00E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.30E-02	U	<	1.00E-02	U	<	1.00E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	5.70E-03	6.40E-03	J	3.20E-03	5.20E-03	J	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	6.40E-03	U	<	5.20E-03	U	<	5.00E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	6.40E-03	U	<	5.20E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	3.10E+00	1.00E+01	J	<	1.00E+01	U	<	1.00E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-255			CA504-SB01-260			CA504-SB01-265		
DATE COLLECTED				July 11, 2013			July 11, 2013			July 11, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.20E-03	U	<	4.40E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	8.90E-03	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.20E-03	U	8.70E-03	4.40E-03		<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.20E-03	U	<	4.40E-03	U	<	5.30E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.20E-03	U	<	4.40E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.00E-02	U	5.70E-03	1.10E-02	J	6.60E-03	1.10E-02	J
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	<	1.00E+01	U	4.10E+00	1.10E+01	J	3.10E+00	1.10E+01	J
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.20E+01	U	<	2.10E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB01-270			CA504-SB01-275			CA504-SB02-005		
DATE COLLECTED				July 11, 2013			July 11, 2013			February 7, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.10E-03	U	<	5.00E-03	U	<	5.60E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.10E-03	U	<	5.00E-03	U	<	5.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.10E-03	U	<	5.00E-03	U	<	5.60E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.10E-03	U	<	5.00E-03	U	<	5.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	3.10E-03	1.00E-02	J	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.10E-02	U	<	1.00E-02	U	6.30E-03	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.10E-02	U	<	1.00E-02	U	5.50E-03	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.10E-02	U	<	1.00E-02	U	8.80E-03	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.00E-02	U	4.50E-03	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	<	1.00E-02	U	3.90E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	<	1.10E+01	U	<	1.00E+01	U	7.60E+00	1.10E+01	J
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	1.80E+01	2.10E+01	J

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB02-010			CA504-SB02-015			CA504-SB02-020		
DATE COLLECTED				February 7, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	6.30E-03	U	<	6.30E-03	U	<	5.60E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.30E-02	U	<	1.30E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	6.30E-03	U	<	6.30E-03	U	<	5.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	6.30E-03	U	<	6.30E-03	U	<	5.60E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	6.30E-03	U	<	6.30E-03	U	<	5.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	5.50E-03	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	9.10E-03	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	1.40E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	4.10E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	9.50E+00	1.10E+01	J	<	1.10E+01	U	1.90E+02	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB02-025			CA504-SB02-030			CA504-SB02-035		
DATE COLLECTED				February 7, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	7.30E-03	U	<	5.60E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.50E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	7.30E-03	U	<	5.60E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	7.30E-03	U	<	5.60E-03	U	<	5.30E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	7.30E-03	U	<	5.60E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	1.00E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	3.10E-02	1.10E-02		4.60E-02	1.10E-02		4.60E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	1.50E-02	1.10E-02		2.40E-02	1.10E-02		2.60E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	1.90E-02	1.10E-02		2.90E-02	1.10E-02		2.80E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	5.60E-03	1.10E-02	J	9.30E-03	1.10E-02	J	8.40E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	4.20E-02	1.10E-02		3.30E-02	1.10E-02		5.60E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	3.40E-03	1.10E-02	J	4.90E-03	1.10E-02	J	4.50E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**2.10E+03**	1.10E+01		**3.10E+03**	1.10E+01		**4.50E+03**	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	5.40E+00	2.20E+01	J	5.30E+00	2.10E+01	J	<	2.10E+02	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB02-040			CA504-SB02-045			CA504-SB02-050		
DATE COLLECTED				February 7, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.50E-03	U	<	6.10E-03	U	<	5.50E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.50E-03	U	4.50E-03	6.10E-03	J	6.30E-03	5.50E-03	J
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.50E-03	U	<	6.10E-03	U	<	5.50E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.50E-03	U	<	6.10E-03	U	<	5.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	1.60E-02	1.10E-02		2.60E-02	1.10E-02		3.70E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	1.40E-02	1.10E-02		1.50E-02	1.10E-02		1.20E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	1.50E-02	1.10E-02		1.60E-02	1.10E-02		1.20E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	3.90E-03	1.10E-02	J	3.30E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	2.00E-02	1.10E-02		3.20E-02	1.10E-02		3.60E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**3.80E+03**	1.10E+02		**6.30E+03**	1.10E+02		**6.20E+03**	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.20E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB02-055			CA504-SB02-060			CA504-SB02-065		
DATE COLLECTED				February 8, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	4.90E-03	U	<	5.30E-03	U	<	5.00E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	5.50E-03	9.80E-03	J	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	1.20E-02	4.90E-03	J	4.40E-03	5.30E-03	J	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	4.60E-03	4.90E-03	J	<	5.30E-03	U	<	5.00E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	4.90E-03	U	<	5.30E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	3.70E-02	1.10E-02		2.70E-02	1.10E-02		2.80E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	1.60E-02	1.10E-02		1.20E-02	1.10E-02		7.80E-03	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	1.30E-02	1.10E-02		9.40E-03	1.10E-02	J	5.20E-03	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	2.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	8.40E-02	1.10E-02		6.90E-02	1.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**8.70E+03**	1.10E+02		**6.90E+03**	1.10E+02		**5.30E+03**	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB02-070			CA504-SB02-075			CA504-SB02-080		
DATE COLLECTED				February 8, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.10E-03	U	<	5.90E-03	U	<	5.20E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	1.20E-02	U	<	1.00E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.10E-03	U	<	5.90E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.10E-03	U	<	5.90E-03	U	<	5.20E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.10E-03	U	<	5.90E-03	U	<	5.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	2.60E-02	1.00E-02		2.30E-02	1.10E-02		2.10E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	6.40E-03	1.00E-02	J	4.60E-03	1.10E-02	J	4.00E-03	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	3.70E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**5.70E+03**	1.00E+02		**4.90E+03**	1.10E+02		**4.40E+03**	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB02-085			CA504-SB03-005			CA504-SB03-010		
DATE COLLECTED				February 8, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.50E-03	U	<	5.00E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.10E-02	U	<	9.90E-03	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.50E-03	U	<	5.00E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.50E-03	U	<	5.00E-03	U	<	5.30E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.50E-03	U	<	5.00E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	2.10E-02	1.10E-02		6.90E-03	1.00E-02	J	<	1.00E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.10E-02	U	7.00E-03	1.00E-02	J	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.10E-02	U	7.00E-03	1.00E-02	J	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	5.10E-03	1.00E-02	J	<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	4.60E-03	1.00E-02	J	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**3.20E+03**	1.10E+02		<	1.00E+01	U	<	1.00E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+02	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB03-015			CA504-SB03-020			CA504-SB03-025		
DATE COLLECTED				February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.40E-03	U	<	6.20E-03	U	<	6.40E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.30E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.40E-03	U	<	6.20E-03	U	<	6.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.40E-03	U	<	6.20E-03	U	<	6.40E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.40E-03	U	<	6.20E-03	U	<	6.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	3.00E-03	1.10E-02	J
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.10E-02	U	4.30E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.10E-02	U	1.20E-02	1.10E-02		1.20E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.10E-02	U	2.10E-02	1.10E-02		2.30E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	2.30E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	7.40E-02	1.10E-02		1.30E-02	1.10E-02	
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	5.40E+00	1.10E+01	J	8.20E+02	1.10E+01		8.40E+02	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	8.70E+00	2.20E+01	J	9.30E+00	2.30E+01	J

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB03-030			CA504-SB03-035			CA504-SB03-040		
DATE COLLECTED				February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.10E-03	U	<	5.80E-03	U	<	8.00E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	1.20E-02	U	<	1.60E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.10E-03	U	<	5.80E-03	U	<	8.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.10E-03	U	<	5.80E-03	U	<	8.00E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.10E-03	U	<	5.80E-03	U	<	8.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	1.50E-02	1.10E-02		2.50E-02	1.10E-02		4.00E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	1.80E-02	1.10E-02		1.30E-02	1.10E-02		2.50E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	2.40E-02	1.10E-02		1.80E-02	1.10E-02		3.80E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	4.20E-03	1.10E-02	J	4.30E-03	1.10E-02	J	8.50E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	4.00E-02	1.10E-02		4.30E-02	1.10E-02		6.80E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	5.80E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	6.90E-03	1.10E-02	J	6.00E-03	1.10E-02	J	9.50E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**2.50E+03**	1.10E+01		**2.40E+03**	1.10E+01		**5.10E+03**	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB03-045			CA504-SB03-050			CA504-SB03-052		
DATE COLLECTED				February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.60E-03	U	<	5.30E-03	U	<	6.50E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.60E-03	U	2.50E-03	5.30E-03	J	<	6.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.60E-03	U	<	5.30E-03	U	<	6.50E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.60E-03	U	<	5.30E-03	U	<	6.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	5.10E-02	1.10E-02		1.10E-01	1.10E-02		1.10E-01	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	3.70E-02	1.10E-02		4.70E-02	1.10E-02		4.40E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	6.00E-02	1.10E-02		7.00E-02	1.10E-02		6.50E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	1.30E-02	1.10E-02		1.70E-02	1.10E-02		1.50E-02	1.10E-02	
Chrysene	4.60E+00	72 / 164	1.48E+02	7.90E-02	1.10E-02		1.40E-01	1.10E-02		1.30E-01	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	6.60E-03	1.10E-02	J	7.50E-03	1.10E-02	J	7.10E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	1.30E-02	1.10E-02		1.50E-02	1.10E-02		1.30E-02	1.10E-02	
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**6.40E+03**	1.10E+02		**8.70E+03**	1.10E+02		**8.20E+03**	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.20E+02	U	<	2.10E+02	U	<	2.20E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB04-005			CA504-SB04-010			CA504-SB04-015		
DATE COLLECTED				February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	6.90E-03	U	<	7.20E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.40E-02	U	<	1.40E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	6.90E-03	U	<	7.20E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	6.90E-03	U	<	7.20E-03	U	<	5.30E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	6.90E-03	U	<	7.20E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	6.60E+01	2.20E+01		<	2.20E+01	U	<	2.20E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB04-020			CA504-SB04-025			CA504-SB04-030		
DATE COLLECTED				February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	4.90E-03	U	<	5.70E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	9.70E-03	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	4.90E-03	U	<	5.70E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	4.90E-03	U	<	5.70E-03	U	<	5.30E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	4.90E-03	U	<	5.70E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	<	1.10E+01	U	2.00E+01	1.10E+01		7.00E+02	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.20E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB04-035			CA504-SB04-040			CA504-SB04-045		
DATE COLLECTED				February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.40E-03	U	<	7.10E-03	U	<	5.70E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.10E-02	U	<	1.40E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.40E-03	U	<	7.10E-03	U	<	5.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.40E-03	U	<	7.10E-03	U	<	5.70E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.40E-03	U	<	7.10E-03	U	<	5.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	1.90E-02	1.10E-02	J	3.30E-02	1.10E-02	J	1.80E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	2.40E-02	1.10E-02	J	5.20E-02	1.10E-02	J	2.40E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	5.30E-03	1.10E-02	J	1.60E-02	1.10E-02	J	8.60E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	5.40E-02	1.10E-02	J	8.20E-02	1.10E-02	J	6.00E-02	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	5.80E-03	1.10E-02	J	7.90E-03	1.10E-02	J	5.80E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**3.70E+03**	5.30E+01		**5.00E+03**	5.30E+01		**3.80E+03**	5.40E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	1.10E+02	U	<	1.10E+02	U	<	1.10E+02	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB04-050			CA504-SB05-005			CA504-SB05-010		
DATE COLLECTED				February 10, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.20E-03	U	<	5.10E-03	U	<	6.80E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.40E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.20E-03	U	<	5.10E-03	U	<	6.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.20E-03	U	<	5.10E-03	U	<	6.80E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.20E-03	U	<	5.10E-03	U	<	6.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	2.60E-02	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	2.20E-02	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	3.30E-02	1.10E-02	J	2.80E-03	1.10E-02	J	<	1.20E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	9.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	7.40E-02	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	4.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**5.20E+03**	5.30E+01		<	1.10E+01	U	<	1.20E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	1.10E+02	U	<	2.10E+01	U	<	2.30E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB05-015			CA504-SB05-020			CA504-SB05-025		
DATE COLLECTED				February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	6.30E-03	U	<	6.60E-03	U	<	5.50E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.30E-02	U	<	1.30E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	6.30E-03	U	<	6.60E-03	U	<	5.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	6.30E-03	U	<	6.60E-03	U	<	5.50E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	6.30E-03	U	<	6.60E-03	U	<	5.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	4.70E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	3.10E+01	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB06-005			CA504-SB06-010			CA504-SB06-015		
DATE COLLECTED				February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.30E-03	U	<	5.20E-03	U	<	5.90E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.10E-02	U	<	1.00E-02	U	<	1.20E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.30E-03	U	<	5.20E-03	U	<	5.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.30E-03	U	<	5.20E-03	U	<	5.90E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.30E-03	U	<	5.20E-03	U	<	5.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	1.50E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	1.10E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	1.50E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	4.80E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	1.20E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	6.00E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	1.40E+01	1.00E+01		<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	1.00E+02	2.10E+01		<	2.20E+01	U	<	2.20E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB06-020			CA504-SB06-025			CA504-SB07-005		
DATE COLLECTED				February 13, 2013			February 13, 2013			February 12, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.90E-03	U	<	5.50E-03	U	<	6.60E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.20E-02	U	<	1.10E-02	U	<	1.30E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.90E-03	U	<	5.50E-03	U	<	6.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.90E-03	U	<	5.50E-03	U	<	6.60E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.90E-03	U	<	5.50E-03	U	<	6.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	1.20E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	8.70E-03	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	1.00E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	3.70E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	1.00E-02	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	5.20E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB07-010			CA504-SB07-015			CA504-SB07-020		
DATE COLLECTED				February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	4.80E-03	U	<	6.30E-03	U	<	5.90E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	9.70E-03	U	<	1.30E-02	U	<	1.20E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	4.80E-03	U	<	6.30E-03	U	<	5.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	4.80E-03	U	<	6.30E-03	U	<	5.90E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	4.80E-03	U	<	6.30E-03	U	<	5.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB07-025			CA504-SB08-005			CA504-SB08-010		
DATE COLLECTED				February 12, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.50E-03	U	<	5.20E-03	U	<	5.10E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.50E-03	U	<	5.20E-03	U	<	5.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.50E-03	U	<	5.20E-03	U	<	5.10E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	5.60E-03	5.50E-03		<	5.20E-03	U	<	5.10E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	4.90E-03	1.00E-02	J	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.10E-02	U	**4.80E+00**	5.10E-02		6.60E-02	1.00E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.10E-02	U	**2.10E+00**	1.00E-02		2.00E-02	1.00E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.10E-02	U	**3.40E+00**	5.10E-02		1.40E-01	1.00E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	9.40E-01	1.00E-02		3.10E-02	1.00E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	4.60E+00	5.10E-02		2.90E-01	1.00E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	**2.20E-01**	1.00E-02		<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	7.00E-01	1.00E-02		1.10E-02	1.00E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	1.10E+01	1.10E+01		2.20E+01	1.00E+01		**3.05E+03**	2.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.20E+01	U	4.60E+01	2.00E+01		1.20E+01	4.20E+01	J

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB08-015			CA504-SB08-020			CA504-SB08-025		
DATE COLLECTED				February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.20E-03	U	<	6.50E-03	U	<	5.80E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	1.30E-02	U	<	1.20E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.20E-03	U	<	6.50E-03	U	<	5.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.20E-03	U	<	6.50E-03	U	<	5.80E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.20E-03	U	<	6.50E-03	U	<	5.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	**1.60E+00**	1.00E-02		2.30E-02	1.10E-02		2.00E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	**7.00E-01**	1.00E-02		7.90E-03	1.10E-02	J	7.10E-03	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	1.20E+00	1.00E-02		1.40E-02	1.10E-02		1.20E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	5.30E-01	1.00E-02		5.40E-03	1.10E-02	J	4.80E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	1.50E+00	1.00E-02		2.60E-02	1.10E-02		2.40E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	7.50E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	2.40E-01	1.00E-02		3.60E-02	1.10E-02		4.40E-02	1.10E-02	
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	6.20E+02	1.00E+01		1.90E+02	1.10E+01		2.20E+02	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	3.30E+01	2.10E+01		6.80E+00	2.30E+01	J	<	2.30E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB09-005			CA504-SB09-010			CA504-SB09-015		
DATE COLLECTED				February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.10E-03	U	<	5.40E-03	U	<	6.60E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	1.10E-02	U	<	1.30E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.10E-03	U	<	5.40E-03	U	<	6.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.10E-03	U	<	5.40E-03	U	<	6.60E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.10E-03	U	<	5.40E-03	U	<	6.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	6.70E-03	1.00E-02	J	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	3.50E-03	1.00E-02	J	<	1.00E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	6.70E-03	1.00E-02	J	<	1.00E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	5.60E-03	1.00E-02	J	<	1.00E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	<	1.00E+01	U	<	1.00E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	8.60E+00	2.10E+01	J	8.80E+00	2.10E+01	J	<	2.20E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB09-020			CA504-SB09-025			CA504-SB10-005		
DATE COLLECTED				February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	7.70E-03	U	<	5.50E-03	U	<	6.40E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.50E-02	U	<	1.10E-02	U	<	1.30E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	7.70E-03	U	<	5.50E-03	U	<	6.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	7.70E-03	U	<	5.50E-03	U	<	6.40E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	7.70E-03	U	<	5.50E-03	U	3.80E-03	6.40E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	5.90E+00	1.10E+01	J	<	1.10E+01	U	<	1.00E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.30E+01	U	<	2.20E+01	U	5.90E+00	2.10E+01	J

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB10-010			CA504-SB10-015			CA504-SB10-020		
DATE COLLECTED				February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.20E-03	U	<	5.20E-03	U	<	6.20E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.20E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.20E-03	U	<	5.20E-03	U	<	6.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.20E-03	U	<	5.20E-03	U	<	6.20E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.20E-03	U	<	5.20E-03	U	<	6.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	1.80E-02	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	3.50E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	4.50E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.00E-02	U	<	1.00E-02	U	1.70E-01	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	2.20E-02	1.10E-02	J
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	1.00E-01	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	<	1.00E+01	U	<	1.00E+01	U	**1.40E+03**	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	5.70E+00	2.10E+01	J	1.90E+01	2.20E+01	J

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB10-025			CA504-SB10-030			CA504-SB10-035		
DATE COLLECTED				February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	6.50E-03	U	<	5.50E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.30E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	6.50E-03	U	<	5.50E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	6.50E-03	U	<	5.50E-03	U	<	5.40E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	6.50E-03	U	<	5.50E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	8.90E-02	1.10E-02	J	8.80E-02	1.10E-02	J	5.40E-02	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	5.80E-02	1.10E-02	J	7.70E-02	1.10E-02	J	3.90E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	1.50E-01	1.10E-02	J	9.00E-02	1.10E-02	J	4.40E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	7.20E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	4.30E-02	1.10E-02	J	3.10E-02	1.10E-02	J	2.30E-02	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**1.50E+03**	1.10E+01		**2.70E+03**	1.10E+01		**2.10E+03**	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	1.60E+01	2.20E+01	J	6.80E+00	2.20E+01	J	6.30E+00	2.10E+01	J

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB10-040			CA504-SB10-045			CA504-SB10-050		
DATE COLLECTED				February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	5.60E-03	U	<	6.20E-03	U	<	6.60E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.10E-02	U	<	1.20E-02	U	<	1.30E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	5.60E-03	U	<	6.20E-03	U	<	6.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	5.60E-03	U	<	6.20E-03	U	<	6.60E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	5.60E-03	U	<	6.20E-03	U	<	6.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	2.50E-02	1.10E-02	J	3.70E-02	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	1.10E-02	1.10E-02	J	1.50E-02	1.10E-02	J	1.90E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	1.40E-02	1.10E-02	J	1.30E-02	1.10E-02	J	3.00E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	6.80E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	6.30E-02	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	7.50E-03	1.10E-02	J	7.40E-03	1.10E-02	J	5.80E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**1.60E+03**	1.10E+01		**1.90E+03**	1.10E+01		**3.50E+03**	2.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	4.30E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB10-052			CA504-SB11-005			CA504-SB11-010		
DATE COLLECTED				February 11, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	6.20E-03	U	<	4.80E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.20E-02	U	<	9.60E-03	U	<	1.10E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	6.20E-03	U	<	4.80E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	6.20E-03	U	<	4.80E-03	U	<	5.30E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	6.20E-03	U	<	4.80E-03	U	2.40E-03	5.30E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	3.20E-02	1.10E-02	J	<	1.10E-02	U	3.30E-03	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	1.00E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	1.10E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	3.10E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	4.50E-03	1.10E-02	J	<	1.10E-02	U	3.10E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	**2.60E+03**	1.10E+01		<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	<	2.10E+01	U	<	2.30E+01	U	<	2.30E+01	U

Notes:
BOLD Result exceeds Residential Human Health PAL.
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-4
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
HOSPITAL ABANDONED UST SITE (ST-C504)

FIELD ID			Residential Human Health PAL	CA504-SB11-015			CA504-SB11-020		
DATE COLLECTED				February 8, 2013			February 8, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)									
Ethylbenzene	1.90E-01 J	20 / 164	6.84E+01	<	6.20E-03	U	<	7.40E-03	U
m,p-Xylene (sum of isomers)	8.50E-01 J	21 / 164	7.74E+02	<	1.20E-02	U	<	1.50E-02	U
Naphthalene	3.30E+00 J	41 / 164	4.30E+01	<	6.20E-03	U	<	7.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	4.60E-01 J	20 / 164	8.98E+02	<	6.20E-03	U	<	7.40E-03	U
Toluene	3.70E-02 J	18 / 164	5.27E+03	<	6.20E-03	U	<	7.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)									
2-Methylnaphthalene	6.90E+00	27 / 164	3.10E+02	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.48E+01	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	1.48E+02	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01 J	20 / 164	1.48E-01	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01 J	61 / 164	1.48E+00	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)									
Diesel Range Organics	8.70E+03	108 / 164	1.00E+03	4.90E+00	1.10E+01	J	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	1.00E+03	9.50E+00	2.10E+01	J	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB01-005			CA505-SB01-010			CA505-SB01-015		
DATE COLLECTED				April 16, 2013			April 16, 2013			April 17, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.10E-03	U	<	5.50E-03	U	<	5.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	UJ
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.00E+01	U	<	1.00E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB01-020			CA505-SB01-025			CA505-SB01-030		
DATE COLLECTED				April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.70E-03	U	<	6.00E-03	U	<	5.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	<	1.10E-02	UJ	<	1.10E-02	UJ	<	1.10E-02	UJ
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB02-005			CA505-SB02-010			CA505-SB02-015		
DATE COLLECTED				April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.10E-03	U	<	5.60E-03	U	<	5.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	1.20E-02	1.10E-02	J	4.70E-02	1.10E-02	J	<	1.10E-02	UJ
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	1.10E-02	1.10E-02		3.90E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	1.70E-02	1.10E-02		5.40E-02	1.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	4.30E-03	1.10E-02	J	1.30E-02	1.10E-02		<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	1.10E-02	1.10E-02		5.30E-02	1.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	5.10E-03	1.10E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	6.20E-03	1.10E-02	J	1.80E-02	1.10E-02		<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	9.50E+02	1.10E+01		3.10E+02	1.10E+01	
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	1.40E+01	2.10E+01	J	<	2.10E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB02-020			CA505-SB02-025			CA505-SB02-030		
DATE COLLECTED				April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	6.20E-03	U	<	6.00E-03	U	<	6.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	6.90E-03	1.10E-02	J	5.80E-03	1.10E-02	J	2.10E-02	1.10E-02	J
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	5.80E-03	1.10E-02	J	4.70E-03	1.10E-02	J	1.70E-02	1.10E-02	
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	7.70E-03	1.10E-02	J	6.50E-03	1.10E-02	J	2.20E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	6.90E-03	1.10E-02	J
Chrysene	6.60E+00	18 / 53	1.48E+02	6.60E-03	1.10E-02	J	4.70E-03	1.10E-02	J	2.00E-02	1.10E-02	
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	2.80E-03	1.10E-02	J	<	1.10E-02	U	8.00E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	2.60E+01	1.10E+01	
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB03-005			CA505-SB03-010			CA505-SB03-015		
DATE COLLECTED				April 18, 2013			April 18, 2013			April 18, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.90E-03	U	<	5.30E-03	U	<	5.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	6.10E-02	1.10E-02		3.30E-02	1.10E-02		<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	4.90E-02	1.10E-02		2.70E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	8.10E-02	1.10E-02		3.80E-02	1.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	2.10E-02	1.10E-02		1.00E-02	1.10E-02	J	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	6.20E-02	1.10E-02		3.00E-02	1.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	8.00E-03	1.10E-02	J	4.00E-03	1.10E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	2.40E-02	1.10E-02		1.50E-02	1.10E-02		<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	2.20E+01	1.10E+01		2.30E+02	1.10E+01	
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	9.80E+00	2.10E+01	J	1.40E+01	2.10E+01	J	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB03-020			CA505-SB03-025			CA505-SB03-030		
DATE COLLECTED				April 18, 2013			April 18, 2013			April 18, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.20E-03	U	<	6.10E-03	U	<	5.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	<	1.10E-02	U	4.90E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.10E-02	U	3.60E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	<	1.10E-02	U	5.00E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.10E-02	U	4.20E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	5.90E+00	1.10E+01	J	7.30E+00	1.10E+01	J	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB04-004			CA505-SB04-009			CA505-SB04-014		
DATE COLLECTED				April 16, 2013			April 16, 2013			April 16, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.00E-03	U	<	5.30E-03	U	<	6.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.00E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB04-020			CA505-SB04-025			CA505-SB05-005		
DATE COLLECTED				April 16, 2013			April 16, 2013			April 18, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.70E-03	U	<	5.60E-03	U	<	5.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.20E+01	U	<	2.20E+01	U	<	2.10E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB05-010			CA505-SB05-015			CA505-SB05-020		
DATE COLLECTED				April 18, 2013			April 18, 2013			April 18, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.70E-03	U	<	5.20E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	3.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	3.20E-03	1.10E-02	J	<	1.10E-02	U	2.80E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	7.30E+00	1.10E+01	J	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.10E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB05-025			CA505-SB06-005			CA505-SB06-010		
DATE COLLECTED				April 18, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	6.40E-03	U	<	5.10E-03	U	<	5.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	<	1.10E-02	U	1.60E-02	1.00E-02	J	3.60E-02	1.10E-02	J
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.10E-02	U	1.50E-02	1.00E-02		3.60E-02	1.10E-02	
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	<	1.10E-02	U	2.30E-02	1.00E-02		4.90E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.10E-02	U	6.10E-03	1.00E-02	J	1.30E-02	1.10E-02	
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.10E-02	U	1.50E-02	1.00E-02		4.00E-02	1.10E-02	
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	<	1.00E-02	U	4.40E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.10E-02	U	7.00E-03	1.00E-02	J	1.50E-02	1.10E-02	
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	<	1.00E+01	U	5.10E+00	1.10E+01	J
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.20E+01	U	1.50E+01	2.10E+01	J	8.50E+00	2.10E+01	J

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB06-015			CA505-SB06-020			CA505-SB06-025		
DATE COLLECTED				April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.20E-03	U	<	5.20E-03	U	4.30E-03	6.40E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	<	1.10E-02	UJ	1.10E-02	1.10E-02	J	<	1.10E-02	UJ
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.10E-02	U	8.50E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	<	1.10E-02	U	1.10E-02	1.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.10E-02	U	4.10E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.10E-02	U	9.90E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.10E-02	U	4.10E-03	1.10E-02	J	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	1.90E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB07-005			CA505-SB07-010			CA505-SB07-015		
DATE COLLECTED				April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.40E-03	U	<	4.70E-03	U	<	5.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	<	1.00E-02	UJ	<	1.00E-02	UJ	<	1.10E-02	UJ
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.00E+01	U	<	1.00E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB07-020			CA505-SB07-025			CA505-SB08-005		
DATE COLLECTED				April 17, 2013			April 17, 2013			April 18, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	6.70E-03	U	4.60E-03	5.80E-03	J	<	5.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	1.50E+00	3.20E-02	J	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	<	1.10E-02	UJ	**7.30E+00**	3.20E-02	J	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.10E-02	U	**6.10E+00**	3.20E-02		<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	<	1.10E-02	U	**7.70E+00**	3.20E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.10E-02	U	1.90E+00	3.20E-02	J	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.10E-02	U	6.60E+00	3.20E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	**7.70E-01**	3.20E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.10E-02	U	**3.00E+00**	3.20E-02	J	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	1.50E+02	1.10E+01		<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.20E+01	U	1.30E+02	2.10E+01		7.30E+00	2.10E+01	J

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB08-010			CA505-SB08-015			CA505-SB08-020		
DATE COLLECTED				April 18, 2013			April 18, 2013			April 18, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	5.70E-03	1.10E-02	J	<	1.10E-02	U	1.00E-02	1.10E-02	J
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	4.10E-03	1.10E-02	J	<	1.10E-02	U	6.70E-03	1.10E-02	J
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	5.20E-03	1.10E-02	J	<	1.10E-02	U	8.70E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	2.70E-03	1.10E-02	J
Chrysene	6.60E+00	18 / 53	1.48E+02	5.10E-03	1.10E-02	J	<	1.10E-02	U	7.70E-03	1.10E-02	J
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	3.80E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.10E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB08-025			CA505-SB09-005			CA505-SB09-009		
DATE COLLECTED				April 18, 2013			April 16, 2013			April 16, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	6.00E-03	U	<	5.30E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	<	1.00E+01	U	<	1.00E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.20E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB09-014			CA505-SB09-019			CA505-SB09-025		
DATE COLLECTED				April 16, 2013			April 16, 2013			April 16, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.30E-03	U	<	5.60E-03	U	<	5.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.48E+02	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.10E+01	U	<	2.10E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB10-005			CA505-SB10-010			CA505-SB10-015		
DATE COLLECTED				April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)												
Naphthalene	4.60E-03	4 / 53	4.30E+01	3.70E-03	7.70E-03	J	<	5.30E-03	U	<	5.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)												
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	1.20E-02	1.00E-02		<	1.10E-02	U	2.70E-03	1.10E-02	J
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	6.30E-02	1.00E-02	J	2.70E-03	1.10E-02	J	1.20E-02	1.10E-02	J
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	5.50E-02	1.00E-02		2.80E-03	1.10E-02	J	9.40E-03	1.10E-02	J
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	7.20E-02	1.00E-02		3.80E-03	1.10E-02	J	1.30E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	1.90E-02	1.00E-02		<	1.10E-02	U	4.00E-03	1.10E-02	J
Chrysene	6.60E+00	18 / 53	1.48E+02	6.30E-02	1.00E-02		<	1.10E-02	U	1.20E-02	1.10E-02	
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	7.40E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	2.80E-02	1.00E-02		<	1.10E-02	U	5.20E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)												
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	2.90E+01	1.00E+01		<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	3.70E+01	2.10E+01		<	2.10E+01	U	<	2.10E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-5
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-C505)

FIELD ID			Residential Human Health PAL	CA505-SB10-020			CA505-SB10-024		
DATE COLLECTED				April 17, 2013			April 17, 2013		
	Maximum	Frequency		Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)									
Naphthalene	4.60E-03	4 / 53	4.30E+01	<	5.30E-03	U	2.50E-03	5.60E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)									
2-Methylnaphthalene	1.50E+00	3 / 53	3.10E+02	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.48E+00	6.60E-03	1.10E-02	J	2.50E-02	1.10E-02	J
Benzo(a)pyrene	6.10E+00	19 / 53	1.48E-01	5.40E-03	1.10E-02	J	1.90E-02	1.10E-02	
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.48E+00	6.60E-03	1.10E-02	J	2.60E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.48E+01	4.20E-03	1.10E-02	J	7.50E-03	1.10E-02	J
Chrysene	6.60E+00	18 / 53	1.48E+02	5.30E-03	1.10E-02	J	2.40E-02	1.10E-02	
Dibenz(a,h)anthracene	7.70E-01	8 / 53	1.48E-01	4.00E-03	1.10E-02	J	3.10E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	1.48E+00	4.60E-03	1.10E-02	J	1.00E-02	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)									
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.00E+03	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.00E+03	<	2.10E+01	U	<	2.20E+01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

J = estimated

LOQ = limit of quantitation

mg/kg = milligrams per kilogram

PAL = Project Action Limit

Qual = qualifier

U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS01-001*			CA507-SB01-004*			CA507-SB01-010*			CA507-SB01-015		
DATE COLLECTED					February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.00E-02	U	<	9.90E-03	U	<	1.30E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.40E-03	U	<	5.20E-03	U	<	4.90E-03	U	<	6.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.40E-03	U	<	5.20E-03	U	<	4.90E-03	U	<	6.50E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.40E-03	U	<	5.20E-03	U	<	4.90E-03	U	<	6.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	5.30E-01	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	**5.40E-01**	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	8.50E-01	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	3.30E-01	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	7.50E-01	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	8.40E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	3.40E-01	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	8.70E+00	1.00E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.00E+00	U	<	1.10E+00	U	<	9.50E-01	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	3.70E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	1.00E+01	5.14E-01		9.00E+00	5.30E-01		6.52E+00	5.49E-01		4.93E+00	5.41E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS02-001*			CA507-SB02-004*			CA507-SB02-010*			CA507-SB02-015		
DATE COLLECTED					February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	2.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.40E-03	U	<	5.50E-03	U	<	5.70E-03	U	<	5.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.40E-03	U	<	5.50E-03	U	<	5.70E-03	U	<	5.10E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.40E-03	U	<	5.50E-03	U	<	5.70E-03	U	<	5.10E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	1.20E-02	3.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	**3.10E+00**	3.10E-02		1.40E-01	1.10E-02		9.00E-02	1.10E-02		2.80E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	**3.30E+00**	3.10E-02		1.40E-01	1.10E-02		8.90E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	**5.60E+00**	3.10E-02		2.30E-01	1.10E-02		1.60E-01	1.10E-02		2.80E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	**1.90E+00**	3.10E-02		8.30E-02	1.10E-02		4.70E-02	1.10E-02		<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	**4.20E+00**	3.10E-02		2.10E-01	1.10E-02		1.40E-01	1.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	**4.60E-01**	3.10E-02		2.20E-02	1.10E-02		2.30E-02	1.10E-02		<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	**1.60E+00**	3.10E-02		9.30E-02	1.10E-02		7.40E-02	1.10E-02		<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	**2.20E-01**	5.20E-02		<	5.50E-02	U	<	5.40E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	6.70E+01	1.00E+01		<	1.10E+01	U	3.10E+00	1.10E+01	J	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	8.00E-01	1.10E+00	J	<	1.00E+00	U	<	9.90E-01	U	<	9.50E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	1.90E+02	2.10E+01		7.10E+00	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	**4.42E+01**	5.19E-01		1.02E+01	5.43E-01		4.99E+00	5.29E-01		4.09E+00	5.43E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS03-001*			CA507-SB03-005*			CA507-SB03-010*			CA507-SB03-015		
DATE COLLECTED					February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	5.70E-03	8.50E-03	J	<	9.30E-03	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	4.30E-03	U	<	4.70E-03	U	<	5.70E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	2.20E-03	4.30E-03	J	<	4.70E-03	U	<	5.70E-03	U	<	5.30E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.30E-03	U	<	4.70E-03	U	<	5.70E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	1.50E-02	3.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	**2.70E+00**	3.20E-02		3.10E-01	1.10E-02		1.00E-02	1.10E-02	J	1.70E-01	1.10E-02	
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	**2.70E+00**	3.20E-02		**3.10E-01**	1.10E-02		9.60E-03	1.10E-02	J	1.40E-01	1.10E-02	
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	**3.80E+00**	3.20E-02		4.90E-01	1.10E-02		1.70E-02	1.10E-02		2.10E-01	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	**1.70E+00**	3.20E-02		1.70E-01	1.10E-02		5.60E-03	1.10E-02	J	7.70E-02	1.10E-02	
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	**3.10E+00**	3.20E-02		4.20E-01	1.10E-02		1.60E-02	1.10E-02		2.00E-01	1.10E-02	
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	**3.60E-01**	3.20E-02		4.50E-02	1.10E-02		<	1.10E-02	U	2.40E-02	1.10E-02	
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	**1.40E+00**	3.20E-02		1.80E-01	1.10E-02		7.70E-03	1.10E-02	J	9.90E-02	1.10E-02	
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	6.70E+01	1.10E+01		5.70E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	5.00E-01	9.10E-01	J	<	9.20E-01	U	<	1.00E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	1.70E+02	2.20E+01		1.30E+01	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	**6.25E+01**	5.25E-01		**4.74E+01**	5.39E-01		5.09E+00	5.26E-01		6.72E+00	5.61E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS04-001*			CA507-SB04-004*			CA507-SB04-010*			CA507-SB04-015		
DATE COLLECTED					February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.30E-02	U	<	9.40E-03	U	<	1.10E-02	U	<	9.20E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	6.50E-03	U	<	4.70E-03	U	<	5.60E-03	U	<	4.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	6.50E-03	U	<	4.70E-03	U	<	5.60E-03	U	<	4.60E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	6.50E-03	U	<	4.70E-03	U	<	5.60E-03	U	<	4.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	6.50E-03	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	1.80E-01	2.10E-02	J	8.10E-03	1.10E-02	J	<	1.10E-02	U	4.60E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	**2.60E-01**	2.10E-02		1.40E-02	1.10E-02		<	1.10E-02	U	1.10E-02	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	5.10E-01	2.10E-02	J	2.40E-02	1.10E-02		3.50E-03	1.10E-02	J	1.60E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	1.40E-01	2.10E-02	J	6.00E-03	1.10E-02	J	<	1.10E-02	U	4.30E-03	1.10E-02	J
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	2.60E-01	2.10E-02		9.30E-03	1.10E-02	J	<	1.10E-02	U	6.20E-03	1.10E-02	J
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	4.90E-02	2.10E-02		5.60E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	1.90E-01	2.10E-02		1.40E-02	1.10E-02		<	1.10E-02	U	1.00E-02	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	**1.90E-01**	5.20E-02		<	5.40E-02	U	<	5.70E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	6.50E+00	1.00E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	9.00E-01	U	<	9.90E-01	U	<	9.30E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	5.40E+01	2.10E+01		2.60E+01	2.20E+01		<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	1.09E+01	5.13E-01		9.70E+00	5.36E-01		5.27E+00	5.66E-01		4.95E+00	5.43E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS05-001*			CA507-SB05-005*			CA507-SB05-010*			CA507-SB05-015		
DATE COLLECTED					February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	9.60E-03	U	<	8.90E-03	U	<	9.20E-03	U	<	9.80E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	4.80E-03	U	<	4.50E-03	U	<	4.60E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	4.80E-03	U	<	4.50E-03	U	<	4.60E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.80E-03	U	<	4.50E-03	U	<	4.60E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	1.30E-02	3.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	5.10E-01	3.10E-02		3.70E-02	1.10E-02		5.00E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	**7.00E-01**	3.10E-02		5.40E-02	1.10E-02		9.30E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	**1.30E+00**	3.10E-02		8.60E-02	1.10E-02		1.10E-02	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	3.40E-01	3.10E-02		2.60E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	7.00E-01	3.10E-02		4.80E-02	1.10E-02		5.40E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	1.20E-01	3.10E-02		1.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	4.90E-01	3.10E-02		3.60E-02	1.10E-02		7.10E-03	1.10E-02	J	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	**1.10E+00**	2.60E-01		3.80E-02	5.50E-02	J	<	5.70E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	2.30E+01	1.00E+01		8.50E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.90E-01	U	<	1.20E+00	U	<	1.00E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	1.50E+02	2.10E+01		3.10E+01	2.20E+01		<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	**2.54E+01**	4.96E-01		7.04E+00	5.29E-01		5.25E+00	5.60E-01		5.58E+00	5.56E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS06-001*			CA507-SB06-005*			CA507-SB06-010*			CA507-SB06-015		
DATE COLLECTED					February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	9.10E-03	U	<	9.70E-03	U	<	9.60E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.20E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	4.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.20E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	4.80E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.20E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	1.20E-02	3.20E-02	J	<	2.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	3.30E-01	3.20E-02		9.90E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	**5.00E-01**	3.20E-02		1.20E-01	2.10E-02		5.50E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	9.90E-01	3.20E-02		1.90E-01	2.10E-02		3.50E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	2.40E-01	3.20E-02		5.90E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	4.70E-01	3.20E-02		1.20E-01	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	1.10E-01	3.20E-02		2.40E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	4.90E-01	3.20E-02		7.90E-02	2.10E-02		4.70E-03	1.10E-02	J	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	**4.40E-01**	5.30E-02		<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	2.10E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.30E+00	U	<	9.20E-01	U	<	1.10E+00	U	<	9.70E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	1.10E+02	2.10E+01		3.60E+01	2.10E+01		<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	**3.29E+01**	5.16E-01		7.16E+00	5.30E-01		4.83E+00	5.65E-01		5.94E+00	5.41E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS07-001*			CA507-SB07-005*			CA507-SB07-008*			CA507-SB07-015		
DATE COLLECTED					February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	9.00E-03	U	<	9.90E-03	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.50E-03	U	<	4.50E-03	U	<	4.90E-03	U	<	5.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.50E-03	U	<	4.50E-03	U	<	4.90E-03	U	<	5.10E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.50E-03	U	<	4.50E-03	U	<	4.90E-03	U	<	5.10E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	1.70E-02	3.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	**1.30E+00**	3.10E-02		8.20E-02	1.10E-02	J	5.20E-03	1.10E-02	J	6.70E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	**1.60E+00**	3.10E-02		8.10E-02	1.10E-02	J	8.80E-03	1.10E-02	J	1.00E-02	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	**2.90E+00**	3.10E-02		1.30E-01	1.10E-02		1.10E-02	1.10E-02		1.10E-02	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	8.20E-01	3.10E-02		3.70E-02	1.10E-02		3.00E-03	1.10E-02	J	3.80E-03	1.10E-02	J
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	**1.80E+00**	3.10E-02		8.70E-02	1.10E-02		4.70E-03	1.10E-02	J	6.40E-03	1.10E-02	J
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	**2.20E-01**	3.10E-02		1.20E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	8.90E-01	3.10E-02		3.70E-02	1.10E-02		6.30E-03	1.10E-02	J	6.60E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	**4.90E-01**	5.20E-02		<	5.40E-02	U	<	5.70E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	3.30E+01	1.00E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.40E-01	U	<	9.90E-01	U	<	9.40E-01	U	<	8.80E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	1.90E+02	2.10E+01		3.50E+01	2.20E+01		2.00E+01	2.30E+01	J	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	**3.66E+01**	5.08E-01		7.49E+00	5.37E-01		6.38E+00	5.34E-01		6.27E+00	5.20E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS08-001*			CA507-SB08-005*			CA507-SB08-010*			CA507-SB08-013		
DATE COLLECTED					February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.40E-02	U	<	9.70E-03	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	6.90E-03	U	<	4.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	6.90E-03	U	<	4.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	6.90E-03	U	<	4.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	1.00E-01	1.10E-02		6.70E-02	1.10E-02	J	7.10E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	1.20E-01	1.10E-02		8.60E-02	1.10E-02	J	9.40E-03	1.10E-02	J	5.70E-03	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	2.00E-01	1.10E-02		1.30E-01	1.10E-02	J	1.10E-02	1.10E-02		3.90E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	6.80E-02	1.10E-02		4.60E-02	1.10E-02	J	3.50E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	1.50E-01	1.10E-02		9.80E-02	1.10E-02	J	6.90E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	2.10E-02	1.10E-02		1.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	8.70E-02	1.10E-02		5.60E-02	1.10E-02	J	7.00E-03	1.10E-02	J	4.70E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.40E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.00E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	1.70E+01	2.20E+01	J	2.40E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	8.44E+00	5.04E-01		7.11E+00	5.30E-01		5.23E+00	5.44E-01		6.06E+00	5.54E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS09-001*			CA507-SB09-004*			CA507-SB09-010*			CA507-SB09-015		
DATE COLLECTED					February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.20E-02	U	<	9.90E-03	U	<	9.70E-03	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	6.20E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	6.20E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.60E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	6.20E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.00E-02	U	1.10E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.00E-02	U	8.30E-03	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.20E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.00E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	9.60E-01	U	<	1.00E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.10E+01	U	3.70E+01	2.20E+01		<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	7.93E+00	5.10E-01		**1.14E+01**	5.25E-01		6.95E+00	5.61E-01		5.05E+00	5.57E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB10-005			CA507-SB10-010			CA507-SB10-015			CA507-SB11-005		
DATE COLLECTED					February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.20E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.20E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.30E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.20E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	4.90E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	4.30E-03	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.00E-02	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.70E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	2.10E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.00E+00	U	<	9.80E-01	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	9.40E+00	2.20E+01	J	<	2.30E+01	U	<	2.20E+01	U	3.10E+01	2.30E+01	
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	9.27E+00	5.62E-01		6.45E+00	5.54E-01		5.03E+00	5.50E-01		1.00E+01	5.24E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB11-010			CA507-SB11-015			CA507-SS12-001			CA507-SB12-004		
DATE COLLECTED					February 12, 2013			February 12, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.10E-02	U	<	9.50E-03	U	<	1.20E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.40E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	5.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.40E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	5.90E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.40E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	5.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.40E-01	1.10E-02		<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	**1.60E-01**	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	2.80E-01	1.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	7.60E-02	1.10E-02		<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.80E-01	1.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	2.60E-02	1.10E-02		<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	9.60E-02	1.10E-02		<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.70E-02	U	<	5.60E-02	U	9.50E-02	5.30E-02		<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.00E+00	U	<	1.10E+00	U	<	9.30E-01	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	<	2.20E+01	U	1.60E+01	2.10E+01	J	1.80E+01	2.20E+01	J
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.60E+00	5.58E-01		4.01E+00	5.42E-01		6.72E+00	5.17E-01		1.46E+01	5.49E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB12-010			CA507-SB12-015			CA507-SB12-020			CA507-SS13-001		
DATE COLLECTED					February 6, 2013			February 6, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.30E-03	U	<	5.20E-03	U	<	6.00E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.30E-03	U	<	5.20E-03	U	<	6.00E-03	U	<	5.40E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.30E-03	U	<	5.20E-03	U	<	6.00E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	7.90E-02	1.00E-02	
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	5.30E-03	1.10E-02	J	<	1.10E-02	U	9.50E-02	1.00E-02	
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	3.60E-03	1.10E-02	J	<	1.10E-02	U	1.60E-01	1.00E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	5.00E-02	1.00E-02	
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.10E-01	1.00E-02	
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	3.70E-03	1.10E-02	J	<	1.10E-02	U	1.70E-02	1.00E-02	
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	6.30E-02	1.00E-02	
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	1.10E-01	5.20E-02	
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.00E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.20E+00	U	<	9.70E-01	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.10E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	6.38E+00	5.48E-01		4.40E+00	5.23E-01		6.20E+00	5.49E-01		5.81E+00	5.07E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB13-004			CA507-SB13-010			CA507-SB13-015			CA507-SB13-020		
DATE COLLECTED					February 6, 2013			February 6, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.20E-02	U	<	1.30E-02	U	<	1.00E-02	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.80E-03	U	<	6.30E-03	U	<	5.00E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.80E-03	U	<	6.30E-03	U	<	5.00E-03	U	<	5.20E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.80E-03	U	<	6.30E-03	U	<	5.00E-03	U	<	5.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	6.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	4.90E-02	1.10E-02		2.00E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	6.10E-02	1.10E-02		2.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	9.70E-02	1.10E-02		3.30E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	3.10E-02	1.10E-02		9.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	6.70E-02	1.10E-02		2.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	1.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	3.50E-02	1.10E-02		1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	4.70E-02	5.40E-02	J	<	5.40E-02	U	<	5.60E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	3.00E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	4.50E+01	2.20E+01		1.20E+01	2.20E+01	J	<	2.30E+01	U	<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	1.15E+01	5.08E-01		6.74E+00	5.30E-01		5.54E+00	5.44E-01		6.82E+00	5.55E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS14-001*			CA507-SB14-004*			CA507-SB14-010*			CA507-SB14-015		
DATE COLLECTED					February 8, 2013			February 8, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.30E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	9.80E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	6.60E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	6.60E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	6.60E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	4.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	5.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	6.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	4.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	5.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.30E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.40E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	2.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	2.00E+01	2.10E+01	J	6.10E+00	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	7.88E+00	4.94E-01		8.84E+00	5.40E-01		6.12E+00	5.03E-01		5.01E+00	5.23E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB15-005			CA507-SB15-010			CA507-SB15-015			CA507-SB15-020		
DATE COLLECTED					February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	9.60E-03	U	<	1.10E-02	U	<	9.60E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.00E-03	U	<	4.80E-03	U	<	5.40E-03	U	<	4.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.00E-03	U	<	4.80E-03	U	<	5.40E-03	U	<	4.80E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.00E-03	U	<	4.80E-03	U	<	5.40E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.00E+00	U	<	1.00E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	1.01E+01	5.70E-01		6.15E+00	5.59E-01		6.04E+00	5.26E-01		7.12E+00	5.51E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB16-005			CA507-SB16-010			CA507-SB16-015			CA507-SB17-005		
DATE COLLECTED					February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.20E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.70E-01	U	<	9.20E-01	U	<	1.10E+00	U	<	1.30E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	9.80E+00	5.55E-01		6.21E+00	5.43E-01		5.92E+00	5.41E-01	J	7.07E+00	5.59E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB17-010			CA507-SB17-015			CA507-SB18-004			CA507-SB18-010		
DATE COLLECTED					February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	9.30E-03	U	<	1.00E-02	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.20E-03	U	<	4.60E-03	U	<	5.20E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.20E-03	U	<	4.60E-03	U	<	5.20E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.20E-03	U	<	4.60E-03	U	<	5.20E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.00E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	7.22E+00	5.61E-01		5.33E+00	5.04E-01		9.97E+00	5.59E-01		7.39E+00	5.10E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB18-015			CA507-SS19-001			CA507-SB19-003			CA507-SB19-010		
DATE COLLECTED					February 11, 2013			February 6, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	9.10E-03	U	<	1.40E-02	U	<	9.50E-03	U	<	9.90E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	4.50E-03	U	<	7.00E-03	U	<	4.70E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	4.50E-03	U	<	7.00E-03	U	<	4.70E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.50E-03	U	<	7.00E-03	U	<	4.70E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	2.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	2.70E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	3.40E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	5.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	1.40E-02	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	2.60E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	1.00E-02	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	2.60E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.70E-02	U	1.20E-01	5.20E-02		<	5.60E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.00E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.10E-01	U	<	1.50E+00	U	<	9.40E-01	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	2.20E+01	2.10E+01		<	2.30E+01	U	<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	3.90E+00	5.29E-01		1.47E+01	5.22E-01		9.43E+00	5.53E-01		6.23E+00	5.42E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS20-001*			CA507-SB20-004*			CA507-SB20-010*			CA507-SB20-015		
DATE COLLECTED					February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.40E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.40E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.40E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.40E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	2.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	3.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	7.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	1.30E-01	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	3.30E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	5.20E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	1.70E-02	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	6.10E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	**4.50E-01**	5.30E-02		<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	8.70E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.20E+00	U	<	1.40E+00	U	<	1.10E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	6.30E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	**7.42E+01**	5.21E-01		9.64E+00	5.52E-01		6.39E+00	5.57E-01		5.63E+00	5.36E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS21-001*			CA507-SB21-004*			CA507-SB21-010*			CA507-SB21-015		
DATE COLLECTED					February 10, 2013			February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	9.00E-03	U	<	1.10E-02	U	<	9.60E-03	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	4.50E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	4.50E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.40E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.50E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	1.70E-01	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	**2.20E-01**	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	3.40E-01	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	9.60E-02	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	2.30E-01	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	3.50E-02	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	1.50E-01	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	**4.40E-01**	5.40E-02		<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	4.60E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.90E+00	U	<	2.30E+00	U	<	2.50E+00	U	<	2.40E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	6.80E+01	2.10E+01		1.10E+01	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	**9.96E+01**	5.31E-01		**1.12E+01**	5.51E-01		8.06E+00	5.46E-01		4.66E+00	5.54E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB21-020			CA507-SS22-001*			CA507-SB22-004*			CA507-SB22-010*		
DATE COLLECTED					February 10, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	9.70E-03	U	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.20E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	5.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.20E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	5.50E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.20E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	5.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.00E-02	UJ	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.00E-02	UJ	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.00E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	2.00E+00	U	<	9.60E-01	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.10E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	7.15E+00	5.28E-01		**2.41E+01**	5.17E-01	J	8.74E+00	5.50E-01		6.75E+00	5.48E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB22-015			CA507-SS23-001*			CA507-SB23-005*			CA507-SB23-010*		
DATE COLLECTED					February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.30E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	U	<	5.40E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	2.00E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	2.70E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	4.10E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	1.20E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	2.40E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	6.40E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	1.90E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.50E-02	U	7.90E-02	5.20E-02		<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	2.80E+00	1.00E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.40E+00	U	<	1.30E+00	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	1.40E+01	2.10E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	4.65E+00	5.40E-01		**1.73E+01**	5.20E-01		8.27E+00	5.54E-01		5.03E+00	5.54E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB23-015			CA507-SS24-001*			CA507-SB24-005*			CA507-SB24-010*		
DATE COLLECTED					February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.10E-03	U	<	5.40E-03	U	<	5.70E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.10E-03	U	<	5.40E-03	U	<	5.70E-03	U	<	5.30E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.10E-03	U	<	5.40E-03	U	<	5.70E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	5.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	7.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	1.20E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	3.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	3.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	5.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.10E+01	U	<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.11E+00	5.46E-01		**1.19E+02**	5.32E-01		**7.06E+01**	5.52E-01		6.11E+00	5.43E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB24-015			CA507-SS25-001*			CA507-SB25-005*			CA507-SB25-010*		
DATE COLLECTED					February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	8.80E-03	U	<	1.10E-02	U	<	1.20E-02	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	4.40E-03	U	<	5.60E-03	U	<	6.00E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	4.40E-03	U	<	5.60E-03	U	<	6.00E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.40E-03	U	<	5.60E-03	U	<	6.00E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	3.70E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	7.10E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	7.40E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	3.40E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	5.40E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	3.80E+00	1.00E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	8.60E-01	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	1.40E+01	2.10E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	4.37E+00	5.57E-01		8.10E+00	5.14E-01		1.02E+01	5.52E-01		5.40E+00	5.26E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB25-015			CA507-SS26-001			CA507-SB26-004			CA507-SB26-010		
DATE COLLECTED					February 13, 2013			February 6, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	9.90E-03	U	<	1.10E-02	U	<	9.80E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.50E-03	U	<	5.00E-03	U	<	5.60E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.50E-03	U	<	5.00E-03	U	<	5.60E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.50E-03	U	<	5.00E-03	U	<	5.60E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	6.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	1.00E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	1.20E-02	1.10E-02		<	1.10E-02	U	3.30E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	3.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	5.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	8.10E-03	1.10E-02	J	<	1.10E-02	U	4.60E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.50E-02	U	<	5.30E-02	U	<	5.70E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.30E+00	U	<	1.10E+00	U	<	9.80E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	5.70E+01	2.10E+01		<	2.30E+01	U	<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	4.85E+00	5.39E-01		1.44E+01	5.24E-01		8.31E+00	5.67E-01		5.36E+00	5.67E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB26-015			CA507-SB26-020			CA507-SB27-005			CA507-SB27-010		
DATE COLLECTED					February 6, 2013			February 6, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	9.90E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.50E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.20E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	9.20E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	4.99E+00	5.54E-01		5.05E+00	5.45E-01		6.85E+00	5.70E-01		5.35E+00	5.11E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB27-015			CA507-SB28-005			CA507-SB28-010			CA507-SB28-015		
DATE COLLECTED					February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	8.90E-03	U	<	9.40E-03	U	<	9.20E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.30E-03	U	<	4.40E-03	U	<	4.70E-03	U	<	4.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.30E-03	U	<	4.40E-03	U	<	4.70E-03	U	<	4.60E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	2.70E-03	5.30E-03	J	<	4.40E-03	U	<	4.70E-03	U	<	4.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	8.80E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.75E+00	5.63E-01		7.48E+00	5.48E-01		5.28E+00	5.30E-01		4.67E+00	5.30E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB29-005			CA507-SB29-010			CA507-SB29-015			CA507-SB30-005		
DATE COLLECTED					February 11, 2013			February 11, 2013			February 11, 2013			February 12, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.10E-03	U	<	5.30E-03	U	<	5.30E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.10E-03	U	<	5.30E-03	U	<	5.30E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.10E-03	U	<	5.30E-03	U	<	5.30E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.80E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.20E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.10E+00	U	<	1.00E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	8.75E+00	5.59E-01		7.04E+00	5.34E-01		5.66E+00	5.18E-01		6.90E+00	5.72E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB30-010			CA507-SB30-015			CA507-SB31-005			CA507-SB31-010		
DATE COLLECTED					February 12, 2013			February 12, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.20E-02	U	<	9.60E-03	U	<	1.10E-02	U	<	8.80E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.80E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	4.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.80E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	4.40E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.80E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	4.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	5.30E-03	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.30E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.20E+00	U	<	1.10E+00	U	<	1.00E+00	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.30E+01	U	1.50E+01	2.30E+01	J	2.10E+01	2.20E+01	J
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.48E+00	5.56E-01		4.96E+00	5.55E-01		6.90E+00	5.59E-01		5.36E+00	5.17E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS32-001*			CA507-SB32-004*			CA507-SB32-009*			CA507-SB32-015		
DATE COLLECTED					February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	1.20E-02	U	<	9.70E-03	U	<	9.50E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.00E-03	U	<	6.10E-03	U	<	4.80E-03	U	<	4.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.00E-03	U	<	6.10E-03	U	<	4.80E-03	U	<	4.80E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.00E-03	U	<	6.10E-03	U	<	4.80E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	2.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	1.70E-01	2.10E-02		4.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	**2.20E-01**	2.10E-02		3.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	3.10E-01	2.10E-02		5.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	1.00E-01	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	2.10E-01	2.10E-02		3.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	3.10E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	1.40E-01	2.10E-02		3.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	1.10E-01	5.40E-02		2.70E-02	5.40E-02	J	<	5.40E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	7.70E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	3.40E+00	1.10E+01	J
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.00E-01	U	<	1.20E+00	U	<	1.10E+00	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	3.70E+01	2.10E+01		6.50E+00	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	**8.90E+01**	5.06E-01		**1.14E+01**	5.33E-01		6.86E+00	5.27E-01		4.11E+00	5.61E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB32-020			CA507-SS33-001*			CA507-SB33-004*			CA507-SB33-010*		
DATE COLLECTED					February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	9.40E-03	U	<	1.10E-02	U	<	9.80E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.10E-03	U	<	4.70E-03	U	<	5.50E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.10E-03	U	<	4.70E-03	U	<	5.50E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.10E-03	U	<	4.70E-03	U	<	5.50E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	2.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	2.50E-02	2.10E-02		2.00E-02	2.20E-02	J	1.00E-02	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	2.70E-02	2.10E-02		1.90E-02	2.20E-02	J	1.30E-02	1.10E-02	
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	4.20E-02	2.10E-02		2.80E-02	2.20E-02		1.70E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	1.40E-02	2.10E-02	J	9.60E-03	2.20E-02	J	4.90E-03	1.10E-02	J
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	2.50E-02	2.10E-02		1.60E-02	2.20E-02	J	9.20E-03	1.10E-02	J
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	2.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	2.00E-02	2.10E-02	J	1.40E-02	2.20E-02	J	8.70E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	1.10E-01	5.30E-02		1.10E-01	5.50E-02		4.20E-02	5.60E-02	J
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	1.60E+01	1.10E+01		<	1.10E+01	U	8.00E+00	1.10E+01	J	3.00E+00	1.10E+01	J
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.20E+00	U	<	9.70E-01	U	<	9.30E-01	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	1.80E+01	2.10E+01	J	2.00E+01	2.20E+01	J	1.60E+01	2.20E+01	J
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.72E+00	5.38E-01		**1.56E+01**	5.04E-01		**4.92E+01**	5.29E-01		**1.53E+01**	5.32E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB33-015			CA507-SB33-020			CA507-SS34-001*			CA507-SB34-004*		
DATE COLLECTED					February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	9.50E-03	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.60E-03	U	<	4.80E-03	U	<	5.70E-03	U	<	5.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.60E-03	U	<	4.80E-03	U	<	5.70E-03	U	<	5.90E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.60E-03	U	<	4.80E-03	U	<	5.70E-03	U	<	5.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	2.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	3.30E-02	2.10E-02		<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	3.50E-02	2.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	5.30E-02	2.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.40E-02	2.10E-02	J	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	3.40E-02	2.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	2.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	2.30E-02	2.10E-02		<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.70E-02	U	<	5.60E-02	U	**2.80E-01**	5.40E-02		<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	9.90E-01	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	<	2.20E+01	U	2.40E+01	2.10E+01		<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.72E+00	5.45E-01		5.17E+00	5.18E-01		**2.26E+01**	5.36E-01		8.80E+00	5.54E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB34-010*			CA507-SB34-015			CA507-SS35-001*			CA507-SB35-004*		
DATE COLLECTED					February 13, 2013			February 13, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	9.70E-03	U	<	1.40E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.20E-03	U	<	4.80E-03	U	<	6.80E-03	U	<	5.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.20E-03	U	<	4.80E-03	U	<	6.80E-03	U	<	5.60E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.20E-03	U	<	4.80E-03	U	<	6.80E-03	U	<	5.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	3.00E-02	2.10E-02		<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	6.40E-02	2.10E-02		<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	9.10E-02	2.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.60E-01	2.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	4.90E-02	2.10E-02		<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	7.40E-02	2.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	2.60E-02	2.10E-02		<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.10E-01	2.10E-02		<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.40E-02	U	**2.30E-01**	5.20E-02		<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	1.50E+01	1.00E+01		<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	9.70E-01	U	2.10E+00	9.60E-01		<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	6.60E+01	2.10E+01		<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	7.05E+00	5.57E-01		5.56E+00	5.32E-01		**2.16E+02**	4.90E-01		**1.12E+01**	5.54E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB35-010*			CA507-SB35-015			CA507-SB35-020			CA507-SS36-001*		
DATE COLLECTED					February 7, 2013			February 7, 2013			February 7, 2013			February 4, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.10E-02	U	<	9.60E-03	U	<	9.10E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.30E-03	U	<	5.50E-03	U	<	4.80E-03	U	<	4.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.30E-03	U	<	5.50E-03	U	<	4.80E-03	U	<	4.50E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.30E-03	U	<	5.50E-03	U	<	4.80E-03	U	<	4.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	3.30E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	**2.00E+00**	3.30E-02	
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	**2.00E+00**	3.30E-02	
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	**3.60E+00**	3.30E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.00E+00	3.30E-02	
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	**2.50E+00**	3.30E-02	
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	**2.90E-01**	3.30E-02	
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	**1.20E+00**	3.30E-02	
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	**4.20E-01**	5.50E-02	
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	3.30E+01	2.20E+01	
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.00E+00	U	<	9.20E-01	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	2.80E+02	4.40E+01	
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.31E+00	5.52E-01		5.33E+00	5.37E-01		6.47E+00	5.33E-01		**6.97E+01**	5.12E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB36-005*			CA507-SB36-010*			CA507-SS37-001*			CA507-SB37-005*		
DATE COLLECTED					February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	9.40E-03	U	<	1.50E-02	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.60E-03	U	<	4.70E-03	U	<	7.50E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.60E-03	U	<	4.70E-03	U	<	7.50E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.60E-03	U	<	4.70E-03	U	<	7.50E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	3.50E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	2.00E-02	1.10E-02		<	1.10E-02	U	2.10E-01	3.50E-02		<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	3.10E-02	1.10E-02		<	1.10E-02	U	**3.90E-01**	3.50E-02		<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	5.40E-02	1.10E-02		<	1.10E-02	U	9.10E-01	3.50E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	1.40E-02	1.10E-02		<	1.10E-02	U	2.70E-01	3.50E-02		<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	3.10E-02	1.10E-02		<	1.10E-02	U	4.70E-01	3.50E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	7.70E-03	1.10E-02	J	<	1.10E-02	U	7.20E-02	3.50E-02		<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	2.60E-02	1.10E-02		<	1.10E-02	U	3.10E-01	3.50E-02		<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	2.80E-02	5.70E-02	J	<	5.60E-02	U	**4.20E-01**	5.80E-02		<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	3.60E+01	2.30E+01		<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.00E+00	U	<	8.90E-01	U	<	1.40E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	<	2.30E+01	U	2.70E+02	4.60E+01		<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	8.36E+00	5.52E-01		5.62E+00	5.58E-01		**1.50E+02**	5.78E-01		7.03E+00	5.36E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB37-010*			CA507-SS38-001*			CA507-SB38-004*			CA507-SB38-009*		
DATE COLLECTED					February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	9.00E-03	U	2.90E-03	1.20E-02	J	<	1.10E-02	U	<	1.00E-02	UJ
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U	<	5.10E-03	UJ
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U	<	5.10E-03	UJ
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U	<	5.10E-03	UJ
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.20E-02	U	1.80E-01	1.10E-02		<	1.10E-02	U	7.30E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.20E-02	U	**2.30E-01**	1.10E-02		<	1.10E-02	U	1.30E-02	1.10E-02	
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.20E-02	U	3.80E-01	1.10E-02		<	1.10E-02	U	1.80E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.20E-02	U	1.40E-01	1.10E-02		<	1.10E-02	U	5.20E-03	1.10E-02	J
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.20E-02	U	2.40E-01	1.10E-02		<	1.10E-02	U	8.90E-03	1.10E-02	J
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.20E-02	U	3.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.20E-02	U	1.30E-01	1.10E-02		<	1.10E-02	U	9.10E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.80E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.20E+01	U	8.70E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.20E-01	U	<	1.10E+00	U	<	1.10E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	3.90E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	3.29E+00	5.39E-01		8.56E+00	5.18E-01		1.03E+01	5.43E-01	J	6.41E+00	5.36E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB38-014			CA507-SS39-001*			CA507-SB39-005*			CA507-SB39-010*		
DATE COLLECTED					February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	9.50E-03	U	2.50E-03	9.80E-03	J	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	4.80E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	4.80E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	5.40E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.80E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	2.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	1.70E-01	2.00E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	**2.10E-01**	2.00E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	3.80E-01	2.00E-02		<	1.10E-02	U	2.90E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	9.10E-02	2.00E-02		<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	2.30E-01	2.00E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	3.70E-02	2.00E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	1.40E-01	2.00E-02		<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.50E-02	U	<	5.10E-02	U	<	5.60E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	5.20E+00	1.00E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.90E-01	U	<	1.00E+00	U	<	1.10E+00	U	<	9.70E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	3.20E+01	2.00E+01		<	2.20E+01	U	<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	4.52E+00	5.39E-01		9.63E+00	4.95E-01		1.03E+01	5.40E-01		4.81E+00	5.50E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB40-010*			CA507-SB40-015			CA507-SB41-010			CA507-SB41-015		
DATE COLLECTED					February 5, 2013			February 5, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	9.70E-03	U	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.20E-03	U	<	4.80E-03	U	<	5.20E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.20E-03	U	<	4.80E-03	U	<	5.20E-03	U	<	5.40E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.20E-03	U	<	4.80E-03	U	<	5.20E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.00E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	6.41E+00	5.64E-01		5.25E+00	5.56E-01		6.03E+00	5.57E-01		3.61E+00	5.41E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB42-010			CA507-SB42-015			CA507-SB43-010			CA507-SB43-015		
DATE COLLECTED					February 6, 2013			February 6, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.10E-02	U	<	9.80E-03	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.40E-03	U	<	5.70E-03	U	<	4.90E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.40E-03	U	<	5.70E-03	U	<	4.90E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.40E-03	U	<	5.70E-03	U	<	4.90E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.00E+00	U	<	9.40E-01	U	<	9.20E-01	U	<	9.80E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.31E+00	5.46E-01		4.86E+00	5.46E-01		5.94E+00	5.24E-01		5.04E+00	5.41E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB44-010			CA507-SB44-015			CA507-SB45-010			CA507-SB45-015		
DATE COLLECTED					February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	9.80E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	1.50E-02	1.10E-02		<	1.10E-02	U	5.20E-03	1.10E-02	J	7.70E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	1.40E-02	1.10E-02		<	1.10E-02	U	3.20E-03	1.10E-02	J	5.30E-03	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	2.20E-02	1.10E-02		<	1.10E-02	U	5.70E-03	1.10E-02	J	8.90E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	1.00E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	2.90E-03	1.10E-02	J
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	1.90E-02	1.10E-02		<	1.10E-02	U	3.30E-03	1.10E-02	J	5.10E-03	1.10E-02	J
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	9.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	3.40E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.00E+00	U	<	9.70E-01	U	<	1.00E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	6.24E+00	5.72E-01		5.75E+00	5.37E-01		6.07E+00	5.50E-01		6.99E+00	5.42E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB46-010			CA507-SB46-015			CA507-SB47-010			CA507-SB47-015		
DATE COLLECTED					February 10, 2013			February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.30E-02	U	<	9.60E-03	U	<	8.70E-03	U	<	8.90E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	6.30E-03	U	<	4.80E-03	U	<	4.30E-03	U	<	4.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	6.30E-03	U	<	4.80E-03	U	<	4.30E-03	U	<	4.50E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	6.30E-03	U	<	4.80E-03	U	<	4.30E-03	U	<	4.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	6.10E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	4.00E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	6.20E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	4.10E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	2.00E+00	U	<	2.00E+00	U	<	2.00E+00	U	<	1.80E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	7.23E+00	5.54E-01		5.44E+00	5.20E-01		6.46E+00	5.46E-01		5.39E+00	5.40E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB48-005			CA507-SB48-010			CA507-SB49-004*			CA507-SB49-010*		
DATE COLLECTED					February 8, 2013			February 8, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	9.30E-03	U	<	9.80E-03	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.40E-03	U	<	4.70E-03	U	<	4.90E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.40E-03	U	<	4.70E-03	U	<	4.90E-03	U	<	5.20E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.40E-03	U	<	4.70E-03	U	<	4.90E-03	U	<	5.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	1.10E-02	1.10E-02	J	3.90E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	8.50E-01	U	<	2.10E+00	U	<	2.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	1.50E+01	2.20E+01	J	1.10E+01	2.20E+01	J	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	8.15E+00	5.52E-01		5.34E+00	5.34E-01		9.36E+00	5.05E-01		6.06E+00	5.30E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB49-015			CA507-SB49-020			CA507-SS50-001*			CA507-SB50-005*		
DATE COLLECTED					February 8, 2013			February 8, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	9.70E-03	U	<	1.30E-02	U	<	1.20E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.20E-03	U	<	4.80E-03	U	<	6.40E-03	U	<	6.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.20E-03	U	<	4.80E-03	U	<	6.40E-03	U	<	6.10E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.20E-03	U	<	4.80E-03	U	<	6.40E-03	U	<	6.10E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	2.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	5.10E-02	2.10E-02		<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	8.00E-02	2.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.80E-01	2.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	4.10E-02	2.10E-02		<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	8.30E-02	2.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	2.10E-02	2.10E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	7.70E-02	2.10E-02		<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.50E-02	U	<	5.50E-02	U	6.60E-02	5.30E-02		<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	1.10E+01	1.10E+01		<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	2.00E+00	U	<	2.10E+00	U	<	1.30E+00	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	6.50E+01	2.10E+01		<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.24E+00	5.02E-01		5.76E+00	5.34E-01		**6.28E+01**	5.27E-01		**1.24E+01**	5.51E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB50-010*			CA507-SB50-015			CA507-SS51-001*			CA507-SB51-005*		
DATE COLLECTED					February 12, 2013			February 12, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.40E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	9.70E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	7.10E-03	U	<	6.40E-03	U	<	5.30E-03	U	<	4.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	7.10E-03	U	<	6.40E-03	U	<	5.30E-03	U	<	4.80E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	7.10E-03	U	<	6.40E-03	U	<	5.30E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	9.90E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.40E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	2.20E-02	1.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	4.70E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.10E-02	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.00E-02	1.10E-02	J	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.50E-02	U	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	1.30E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.30E+00	U	<	1.20E+00	U	<	1.20E+00	U	<	9.80E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.30E+01	U	2.40E+01	2.10E+01		<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	7.73E+00	5.46E-01		6.13E+00	5.47E-01		**2.08E+01**	5.37E-01		8.41E+00	5.57E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB51-010*			CA507-SB51-015			CA507-SS52-001*			CA507-SB52-004*		
DATE COLLECTED					February 13, 2013			February 13, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.10E-02	U	<	9.10E-03	U	<	1.50E-02	U	<	1.20E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.30E-03	U	<	4.50E-03	U	<	7.30E-03	U	<	5.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.30E-03	U	<	4.50E-03	U	<	7.30E-03	U	<	5.90E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.30E-03	U	<	4.50E-03	U	<	7.30E-03	U	<	5.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	3.20E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	2.30E-02	3.20E-02		4.90E-02	1.10E-02	
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	2.70E-02	3.20E-02		4.80E-02	1.10E-02	
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	3.70E-02	3.20E-02		6.90E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	9.10E-03	3.20E-02		2.40E-02	1.10E-02	
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.80E-02	3.20E-02		4.40E-02	1.10E-02	
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	3.20E-02	U	1.70E-02	1.10E-02	
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	2.20E-02	3.20E-02		4.10E-02	1.10E-02	
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.50E-02	U	**3.10E-01**	5.30E-02		<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	7.30E+00	1.10E+01		<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.20E+00	U	<	1.40E+00	U	<	1.30E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	1.80E+02	2.10E+01		1.80E+01	2.20E+01	
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	6.61E+00	5.57E-01		4.54E+00	5.52E-01		**2.18E+01**	5.18E-01		9.92E+00	5.36E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB52-010*			CA507-SB52-015			CA507-SB53-005			CA507-SB53-010		
DATE COLLECTED					February 11, 2013			February 11, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	9.90E-03	U	<	1.00E-02	U	<	9.80E-03	U	<	9.80E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.00E-03	U	<	5.10E-03	U	<	4.90E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.00E-03	U	<	5.10E-03	U	<	4.90E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.00E-03	U	<	5.10E-03	U	<	4.90E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	6.00E-03	2.30E-02	J	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	2.30E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	2.30E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	2.90E-03	1.10E-02		<	1.10E-02	U	<	2.30E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	2.30E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	2.30E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	9.40E-03	1.10E-02		6.10E-03	1.10E-02		<	2.30E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	9.50E-03	1.10E-02		6.30E-03	1.10E-02		<	2.30E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	8.80E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	1.60E+01	2.30E+01	J	<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	6.73E+00	5.29E-01		5.18E+00	5.43E-01		7.62E+00	5.44E-01		8.75E+00	5.52E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS54-001			CA507-SB54-005			CA507-SB54-010			CA507-SB55-005		
DATE COLLECTED					February 8, 2013			February 4, 2013			February 4, 2013			February 7, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	9.60E-03	U	<	1.10E-02	U	<	9.70E-03	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	4.80E-03	U	<	5.30E-03	U	<	4.80E-03	U	<	5.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	4.80E-03	U	<	5.30E-03	U	<	4.80E-03	U	<	5.60E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.80E-03	U	<	5.30E-03	U	<	4.80E-03	U	<	5.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	1.60E-02	3.30E-02	J	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	3.30E-01	3.30E-02		5.70E-03	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	**3.90E-01**	3.30E-02		1.00E-02	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	6.60E-01	3.30E-02		1.30E-02	1.20E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	2.10E-01	3.30E-02		3.90E-03	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	4.00E-01	3.30E-02		6.30E-03	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	6.90E-02	3.30E-02		<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	2.90E-01	3.30E-02		9.40E-03	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	**4.50E+00**	1.10E+00		2.20E-01	5.80E-02		<	5.70E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	2.70E+01	1.10E+01		<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.10E+00	U	<	9.70E-01	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	2.60E+02	2.20E+01		1.20E+01	2.30E+01	J	<	2.30E+01	U	1.10E+01	2.30E+01	J
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.63E+01	5.52E-01		8.93E+00	5.42E-01		5.09E+00	5.57E-01		7.75E+00	5.26E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB55-010			CA507-SS56-001*			CA507-SB56-004*			CA507-SB56-010*		
DATE COLLECTED					February 7, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	9.50E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	8.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	8.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	3.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	7.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	6.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.70E-02	U	5.90E-02	5.30E-02		<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	3.40E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	6.20E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.62E+00	5.68E-01		**1.37E+01**	5.15E-01		1.07E+01	5.56E-01		6.17E+00	5.16E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS57-001*			CA507-SB57-004*			CA507-SB57-010*			CA507-SB58-004		
DATE COLLECTED					February 7, 2013			February 7, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	1.20E-02	U	<	9.10E-03	U	<	1.20E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.00E-03	U	<	5.90E-03	U	<	4.60E-03	U	<	6.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.00E-03	U	<	5.90E-03	U	<	4.60E-03	U	<	6.00E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.00E-03	U	<	5.90E-03	U	<	4.60E-03	U	<	6.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	3.70E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	3.40E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	5.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	9.00E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	2.40E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	4.20E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	1.70E-02	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	6.70E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	**9.00E-01**	2.60E-01		<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	4.50E+01	1.00E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.30E-01	U	<	1.20E+00	U	<	1.00E+00	U	<	1.40E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	1.20E+02	2.10E+01		<	2.30E+01	U	<	2.20E+01	U	<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	**2.70E+02**	5.20E-01		1.07E+01	5.52E-01		7.73E+00	5.39E-01		8.96E+00	5.69E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB58-010			CA507-SS59-001*			CA507-SB59-004*			CA507-SB59-010*		
DATE COLLECTED					February 7, 2013			February 7, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	9.90E-03	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.00E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.00E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.50E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.00E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	1.30E-02	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	6.90E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	1.10E-01	2.10E-02		5.70E-03	1.10E-02	J	5.40E-03	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	2.10E-01	2.10E-02		4.80E-03	1.10E-02	J	4.80E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	4.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	9.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	2.80E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	1.20E-01	2.10E-02		5.20E-03	1.10E-02	J	4.90E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.70E-02	U	**6.70E-01**	5.30E-02		<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	1.90E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.00E+00	U	5.00E-01	1.40E+00	J	<	1.10E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	1.40E+02	2.10E+01		<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	4.94E+00	5.61E-01		**3.00E+02**	5.11E-01	J	**1.26E+01**	5.64E-01		9.35E+00	5.54E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SS60-001*			CA507-SB60-004*			CA507-SB60-010*			CA507-SS61-001		
DATE COLLECTED					February 7, 2013			February 7, 2013			February 7, 2013			February 4, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.20E-02	U	<	1.10E-02	U	<	9.90E-03	U	<	9.90E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.80E-03	U	<	5.30E-03	U	<	5.00E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.80E-03	U	<	5.30E-03	U	<	5.00E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.80E-03	U	<	5.30E-03	U	<	5.00E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	2.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	9.30E-03	3.40E-02	J
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	1.50E-01	2.10E-02		4.10E-03	1.10E-02	J	<	1.10E-02	U	4.30E-01	3.40E-02	
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	**2.10E-01**	2.10E-02		4.20E-03	1.10E-02	J	<	1.10E-02	U	**5.40E-01**	3.40E-02	
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	3.70E-01	2.10E-02		6.20E-03	1.10E-02	J	<	1.10E-02	U	1.00E+00	3.40E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	9.60E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	2.60E-01	3.40E-02	
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	2.30E-01	2.10E-02		3.00E-03	1.10E-02	J	<	1.10E-02	U	6.20E-01	3.40E-02	
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	3.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	8.90E-02	3.40E-02	
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	1.50E-01	2.10E-02		2.80E-03	1.10E-02	J	<	1.10E-02	U	3.40E-01	3.40E-02	
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	**5.20E-01**	5.30E-02		<	5.60E-02	U	<	5.60E-02	U	9.70E-01	2.80E-01	
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	5.80E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	2.30E+01	2.30E+01	
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	8.80E-01	U	<	1.10E+00	U	<	9.60E-01	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	5.20E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U	3.00E+02	4.50E+01	
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	**2.28E+02**	5.24E-01		1.00E+01	5.39E-01		6.03E+00	5.59E-01		3.01E+01	5.36E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB61-005			CA507-SB61-010			CA507-SS62-001*			CA507-SB62-005*		
DATE COLLECTED					February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	1.10E-02	U	<	9.80E-03	U	<	9.50E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	4.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	4.70E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	4.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	1.10E-02	3.30E-02	J	<	1.20E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	1.00E-01	1.10E-02		<	1.10E-02	U	1.30E-01	3.30E-02		<	1.20E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	1.20E-01	1.10E-02		<	1.10E-02	U	**2.00E-01**	3.30E-02		5.10E-03	1.20E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	2.20E-01	1.10E-02		<	1.10E-02	U	3.50E-01	3.30E-02		3.40E-03	1.20E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	5.60E-02	1.10E-02		<	1.10E-02	U	9.70E-02	3.30E-02		<	1.20E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	1.60E-01	1.10E-02		<	1.10E-02	U	2.00E-01	3.30E-02		<	1.20E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	1.90E-02	1.10E-02		<	1.10E-02	U	3.40E-02	3.30E-02		<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	7.30E-02	1.10E-02		<	1.10E-02	U	1.40E-01	3.30E-02		5.00E-03	1.20E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	4.10E-01	5.70E-02		<	5.70E-02	U	**1.30E+00**	2.80E-01		<	5.80E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	9.20E+00	2.20E+01	J	<	1.20E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.90E-01	U	<	8.30E-01	U	<	1.10E+00	U	<	9.70E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	2.00E+01	2.30E+01	J	<	2.30E+01	U	2.10E+02	4.40E+01		<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	1.04E+01	5.57E-01		4.72E+00	5.63E-01		**7.26E+01**	5.35E-01		**1.51E+01**	5.36E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB62-010*			CA507-SS63-001*			CA507-SB63-005*			CA507-SB63-010*		
DATE COLLECTED					February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	9.70E-03	U	<	1.10E-02	U	<	1.00E-02	U	<	9.60E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	4.90E-03	U	<	5.50E-03	U	<	5.10E-03	U	<	4.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	4.90E-03	U	<	5.50E-03	U	<	5.10E-03	U	<	4.80E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.90E-03	U	<	5.50E-03	U	<	5.10E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	3.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	4.50E-01	3.20E-02		<	1.20E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	**6.70E-01**	3.20E-02		5.40E-03	1.20E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	**1.30E+00**	3.20E-02		3.60E-03	1.20E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	2.90E-01	3.20E-02		<	1.20E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	7.00E-01	3.20E-02		<	1.20E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	9.60E-02	3.20E-02		<	1.20E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	4.60E-01	3.20E-02		4.90E-03	1.20E-02	J	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.70E-02	U	**1.30E+00**	2.70E-01		1.20E-01	5.80E-02		<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	2.10E+01	2.20E+01	J	<	1.20E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.60E-01	U	6.40E-01	1.10E+00	J	<	9.90E-01	U	<	9.30E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.30E+01	U	1.80E+02	4.30E+01		1.20E+01	2.30E+01	J	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	3.67E+00	5.61E-01		**7.13E+01**	5.18E-01		9.85E+00	5.78E-01		5.43E+00	5.34E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB64-010*			CA507-SB64-015			CA507-SB65-010*			CA507-SB65-015		
DATE COLLECTED					February 8, 2013			February 8, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	9.50E-03	U	<	9.40E-03	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.10E-03	U	<	4.80E-03	U	<	4.70E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.10E-03	U	<	4.80E-03	U	<	4.70E-03	U	<	5.20E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.10E-03	U	<	4.80E-03	U	<	4.70E-03	U	<	5.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.40E-01	U	<	1.00E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	6.86E+00	5.52E-01		5.26E+00	5.32E-01		4.88E+00	5.17E-01		5.21E+00	5.54E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB66-010*			CA507-SB66-015			CA507-SB67-010*			CA507-SB67-015		
DATE COLLECTED					February 8, 2013			February 8, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	9.10E-03	U	<	9.20E-03	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	4.50E-03	U	<	4.60E-03	U	<	5.50E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	4.50E-03	U	<	4.60E-03	U	<	5.50E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.50E-03	U	<	4.60E-03	U	<	5.50E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	2.00E+00	U	<	2.20E+00	U	<	1.10E+00	U	<	9.60E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.67E+00	5.53E-01		7.25E+00	5.39E-01		4.75E+00	5.28E-01		5.54E+00	5.43E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB68-010*			CA507-SB68-015			CA507-SB69-010*			CA507-SB69-015		
DATE COLLECTED					February 10, 2013			February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	9.60E-03	U	<	1.10E-02	U	<	1.10E-02	U	<	9.90E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	4.80E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	4.80E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.80E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	2.10E+00	U	<	2.20E+00	U	<	2.30E+00	U	<	2.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.22E+00	5.40E-01		6.67E+00	5.34E-01		7.15E+00	5.29E-01		6.69E+00	5.61E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB70-010*			CA507-SB70-015			CA507-SB71-010*			CA507-SB71-013		
DATE COLLECTED					February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	1.20E-02	9.70E-03		<	9.90E-03	U	<	1.10E-02	U	<	9.80E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	1.00E-02	4.80E-03		<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	1.90E-02	4.80E-03		<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	4.80E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	1.70E-02	1.10E-02		1.20E-02	1.10E-02		3.10E-03	1.10E-02	J	6.30E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	2.10E-02	1.10E-02		1.80E-02	1.10E-02		6.30E-03	1.10E-02	J	8.70E-03	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	3.10E-02	1.10E-02		2.40E-02	1.10E-02		5.50E-03	1.10E-02	J	1.10E-02	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	8.40E-03	1.10E-02	J	6.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	2.00E-02	1.10E-02		8.30E-03	1.10E-02	J	3.20E-03	1.10E-02	J	6.00E-03	1.10E-02	J
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	5.90E-03	1.10E-02	J	5.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	1.40E-02	1.10E-02		1.10E-02	1.10E-02	J	5.00E-03	1.10E-02	J	6.90E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	9.70E-01	U	<	9.70E-01	U	<	9.90E-01	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	6.47E+00	5.46E-01		4.93E+00	5.39E-01		9.78E+00	5.56E-01		2.23E+01	5.61E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB72-010*			CA507-SB72-015			CA507-SB73-010*			CA507-SB73-015		
DATE COLLECTED					February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	9.40E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.00E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.00E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.00E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.80E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.20E+00	U	<	1.00E+00	U	<	9.80E-01	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	5.05E+00	5.26E-01		4.76E+00	5.70E-01		6.29E+00	5.24E-01		4.81E+00	5.39E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-6
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA507-SB74-010			CA507-SB74-015		
DATE COLLECTED					February 14, 2013			February 14, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)										
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	7.74E+02	1.40E+00	<	1.00E-02	U	<	9.50E-03	U
Naphthalene	1.00E-02	1 / 234	4.30E+01	2.90E+01	<	5.00E-03	U	<	4.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	8.98E+02	1.40E+00	<	5.00E-03	U	<	4.80E-03	U
Toluene	2.70E-03	1 / 234	5.27E+03	2.30E+01	<	5.00E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)										
2-Methylnaphthalene	3.70E-02	17 / 234	3.10E+02	2.90E+01	3.60E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)										
PCB-1260	4.50E+00	36 / 234	2.22E+00	1.40E-01	<	5.60E-02	U	<	5.40E-02	U
PETROLEUM HYDROCARBONS (mg/kg)										
Diesel Range Organics	6.70E+01	37 / 234	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	1.00E+03	--	<	1.00E+00	U	<	9.30E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.00E+03	--	1.60E+01	2.20E+01	J	<	2.20E+01	U
METALS (mg/kg)										
Lead	3.00E+02	234 / 234	4.00E+02	1.10E+01	6.65E+00	5.62E-01		5.43E+00	5.29E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
PCB= Polychlorinated Biphenyl
Qual = qualifier
U = nondetect

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS01-001*			CA508-SB01-004*			CA508-SB01-009*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	7.74E+02	1.40E+00	<	1.30E-02	U	<	1.10E-02	U	<	1.00E-02	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Carbazole	6.00E-01	1 / 33	--	8.00E+01	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	7.80E+01	6.10E+00	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.70E-01	4 / 33	3.10E+02	2.90E+01	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	3.44E+03	2.90E+01	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	-	2.90E+01	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	1.72E+04	2.90E+01	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.48E+00	1.10E+00	1.70E-02	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	1.48E-01	1.10E+00	2.70E-02	3.30E-02	J	9.50E-03	2.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.48E+00	1.10E+00	3.40E-02	3.30E-02		6.30E-03	2.10E-02	J	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E+00	15 / 33	-	1.10E+00	2.30E-02	3.30E-02	J	7.00E-03	2.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	1.48E+01	1.10E+00	9.30E-03	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	1.48E+02	1.10E+00	1.40E-02	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.48E-01	1.10E+00	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	2.29E+03	2.90E+01	3.60E-02	3.30E-02		6.60E-03	2.10E-02	J	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	2.29E+03	2.90E+01	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.48E+00	1.10E+00	2.10E-02	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	4.30E+01	2.90E+01	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.83E+03	2.90E+01	2.00E-02	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	1.72E+03	1.10E+00	3.10E-02	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)													
4,4-DDE	4.80E-03	3 / 33	1.43E+01	2.10E-02	4.80E-03	4.30E-03		<	4.20E-03	U	<	4.20E-03	U
4,4-DDT	1.20E-02	8 / 33	1.72E+01	2.10E-02	1.20E-02	4.30E-03		<	4.20E-03	U	<	4.20E-03	U
alpha-Chlordane	3.40E-03	1 / 33	-	2.70E-01	3.40E-03	2.20E-03		<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	3.04E-01	4.90E-03	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
gamma-Chlordane	1.90E-03	1 / 33	-	2.20E+00	1.90E-03	2.20E-03	J	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	5.30E-02	1.52E-01	<	2.20E-03	U	2.50E-03	2.10E-03		<	2.10E-03	U
POLYCHLORINATED BIPHENYLS (mg/kg)													
All nondetect	--	--											
EXPLOSIVES (mg/kg)													
All nondetect	--	--											

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS01-001*			CA508-SB01-004*			CA508-SB01-009*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	1.20E+01	7 / 33	1.00E+03	--	1.20E+01	1.10E+01		<	1.00E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	1.00E+03	--	<	1.30E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	1.60E+02	18 / 33	1.00E+03	--	1.10E+02	2.20E+01		2.50E+01	2.10E+01		<	2.10E+01	U
METALS (mg/kg)													
Arsenic	5.59E+00	33 / 33	3.90E+00	1.80E+01	3.55E+00	5.27E-01		3.37E+00	5.08E-01		2.70E+00	5.22E-01	
Barium	8.44E+02	33 / 33	1.56E+04	3.30E+02	1.54E+02	5.27E-01		1.05E+02	5.08E-01		**3.66E+02**	5.22E-01	
Cadmium	3.79E+00	33 / 33	7.03E+01	3.60E-01	**3.79E+00**	5.27E-01		**1.57E+00**	5.08E-01		2.44E-01	5.22E-01	J
Chromium	1.89E+01	33 / 33	1.17E+05	2.60E+01	1.89E+01	5.27E-01		1.13E+01	5.08E-01		6.77E+00	5.22E-01	
Lead	3.13E+01	33 / 33	4.00E+02	1.10E+01	**3.13E+01**	5.27E-01		**1.70E+01**	5.08E-01		4.63E+00	5.22E-01	
Mercury	2.71E-02	3 / 33	1.56E+01	1.30E-02	**2.08E-02**	1.07E-01	J	<	1.03E-01	U	<	1.05E-01	U
Selenium	3.00E-01	24 / 33	3.91E+02	5.20E-01	1.64E-01	5.27E-01	J	7.58E-02	5.08E-01	J	<	5.22E-01	U
Silver	1.09E+00	12 / 33	3.91E+02	4.20E+00	8.60E-01	5.27E-01		1.54E-01	5.08E-01	J	<	5.22E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB01-015			CA508-SB01-020			CA508-SS02-001*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Carbazole	6.00E-01	1 / 33	--	8.00E+01	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dibenzofuran	4.70E-01	1 / 33	7.80E+01	6.10E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.70E-01	4 / 33	3.10E+02	2.90E+01	<	1.10E-02	U	5.00E-03	1.10E-02	J	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	1.72E+04	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	9.60E-03	1.10E-02	J
Benzo(a)pyrene	2.00E+00	16 / 33	1.48E-01	1.10E+00	<	1.10E-02	U	4.30E-03	1.10E-02	J	1.50E-02	1.10E-02	
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	2.00E-02	1.10E-02	
Benzo(g,h,i)perylene	1.10E+00	15 / 33	-	1.10E+00	<	1.10E-02	U	4.50E-03	1.10E-02	J	1.10E-02	1.10E-02	J
Benzo(k)fluoranthene	8.70E-01	12 / 33	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	6.50E-03	1.10E-02	J
Chrysene	2.40E+00	12 / 33	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.10E-02	1.10E-02	J
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	2.40E-02	1.10E-02	
Fluorene	5.00E-01	4 / 33	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	4.70E-03	1.10E-02	J	1.10E-02	1.10E-02	
Naphthalene	3.40E-01	4 / 33	4.30E+01	2.90E+01	<	1.10E-02	U	3.40E-03	1.10E-02	J	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.83E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	1.20E-02	1.10E-02	
Pyrene	3.00E-01	13 / 32	1.72E+03	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	1.10E-02	
PESTICIDES (ORGANOCHLORINE) (mg/kg)													
4,4-DDE	4.80E-03	3 / 33	1.43E+01	2.10E-02	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
4,4-DDT	1.20E-02	8 / 33	1.72E+01	2.10E-02	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
alpha-Chlordane	3.40E-03	1 / 33	-	2.70E-01	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Dieldrin	8.10E-03	3 / 33	3.04E-01	4.90E-03	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
gamma-Chlordane	1.90E-03	1 / 33	-	2.20E+00	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	5.30E-02	1.52E-01	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
POLYCHLORINATED BIPHENYLS (mg/kg)													
All nondetect	--	--											
EXPLOSIVES (mg/kg)													
All nondetect	--	--											

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB01-015			CA508-SB01-020			CA508-SS02-001*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	1.20E+01	7 / 33	1.00E+03	--	<	1.10E+01	U	2.70E+00	1.10E+01	J	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	1.00E+03	--	<	9.90E-01	U	<	1.10E+00	U	<	1.20E+00	U
Oil Range Organics	1.60E+02	18 / 33	1.00E+03	--	6.20E+00	2.20E+01	J	1.70E+01	2.20E+01	J	3.00E+01	2.20E+01	
METALS (mg/kg)													
Arsenic	5.59E+00	33 / 33	3.90E+00	1.80E+01	2.91E+00	5.29E-01		**3.91E+00**	5.30E-01		3.46E+00	5.51E-01	
Barium	8.44E+02	33 / 33	1.56E+04	3.30E+02	7.56E+02	5.29E-01		2.23E+02	5.30E-01	J	1.07E+02	5.51E-01	
Cadmium	3.79E+00	33 / 33	7.03E+01	3.60E-01	6.35E-01	5.29E-01		2.34E+00	5.30E-01	J	3.45E-01	5.51E-01	J
Chromium	1.89E+01	33 / 33	1.17E+05	2.60E+01	9.49E+00	5.29E-01		1.23E+01	5.30E-01		1.56E+01	5.51E-01	
Lead	3.13E+01	33 / 33	4.00E+02	1.10E+01	7.89E+00	5.29E-01		1.59E+01	5.30E-01	J	**1.20E+01**	5.51E-01	
Mercury	2.71E-02	3 / 33	1.56E+01	1.30E-02	<	1.06E-01	U	<	1.07E-01	U	<	1.09E-01	U
Selenium	3.00E-01	24 / 33	3.91E+02	5.20E-01	<	5.29E-01	U	<	5.30E-01	U	1.47E-01	5.51E-01	J
Silver	1.09E+00	12 / 33	3.91E+02	4.20E+00	<	5.29E-01	U	7.85E-02	5.30E-01	J	1.09E+00	5.51E-01	

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB02-003*			CA508-SB02-010*			CA508-SB02-015		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Carbazole	6.00E-01	1 / 33	--	8.00E+01	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Dibenzofuran	4.70E-01	1 / 33	7.80E+01	6.10E+00	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.70E-01	4 / 33	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	1.72E+04	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E+00	15 / 33	-	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.83E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	1.72E+03	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)													
4,4-DDE	4.80E-03	3 / 33	1.43E+01	2.10E-02	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
4,4-DDT	1.20E-02	8 / 33	1.72E+01	2.10E-02	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
alpha-Chlordane	3.40E-03	1 / 33	-	2.70E-01	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Dieldrin	8.10E-03	3 / 33	3.04E-01	4.90E-03	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
gamma-Chlordane	1.90E-03	1 / 33	-	2.20E+00	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	5.30E-02	1.52E-01	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
POLYCHLORINATED BIPHENYLS (mg/kg)													
All nondetect	--	--											
EXPLOSIVES (mg/kg)													
All nondetect	--	--											

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB02-003*			CA508-SB02-010*			CA508-SB02-015		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	1.20E+01	7 / 33	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	1.00E+03	--	<	1.10E+00	U	<	1.30E+00	U	<	1.00E+00	U
Oil Range Organics	1.60E+02	18 / 33	1.00E+03	--	<	2.10E+01	U	<	2.10E+01	U	<	2.20E+01	U
METALS (mg/kg)													
Arsenic	5.59E+00	33 / 33	3.90E+00	1.80E+01	2.97E+00	4.92E-01		3.20E+00	5.25E-01		3.00E+00	5.38E-01	
Barium	8.44E+02	33 / 33	1.56E+04	3.30E+02	1.82E+02	4.92E-01		2.51E+02	5.25E-01		2.98E+02	5.38E-01	
Cadmium	3.79E+00	33 / 33	7.03E+01	3.60E-01	1.62E-01	4.92E-01	J	2.44E-01	5.25E-01	J	2.66E-01	5.38E-01	J
Chromium	1.89E+01	33 / 33	1.17E+05	2.60E+01	6.24E+00	4.92E-01		1.01E+01	5.25E-01		1.18E+01	5.38E-01	
Lead	3.13E+01	33 / 33	4.00E+02	1.10E+01	3.64E+00	4.92E-01		5.83E+00	5.25E-01		6.21E+00	5.38E-01	
Mercury	2.71E-02	3 / 33	1.56E+01	1.30E-02	<	1.05E-01	U	<	1.07E-01	U	<	1.08E-01	U
Selenium	3.00E-01	24 / 33	3.91E+02	5.20E-01	6.75E-02	4.92E-01	J	5.39E-02	5.25E-01	J	<	5.38E-01	U
Silver	1.09E+00	12 / 33	3.91E+02	4.20E+00	<	4.92E-01	U	<	5.25E-01	U	<	5.38E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS03-001*			CA508-SB03-005*			CA508-SB03-010*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Carbazole	6.00E-01	1 / 33	--	8.00E+01	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	7.80E+01	6.10E+00	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.70E-01	4 / 33	3.10E+02	2.90E+01	6.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	3.44E+03	2.90E+01	6.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	-	2.90E+01	5.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	1.72E+04	2.90E+01	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.48E+00	1.10E+00	8.00E-02	1.10E-02		3.00E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	1.48E-01	1.10E+00	1.10E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.48E+00	1.10E+00	1.60E-01	1.10E-02		3.50E-03	1.10E-02	J	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E+00	15 / 33	-	1.10E+00	7.80E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	1.48E+01	1.10E+00	5.60E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	1.48E+02	1.10E+00	1.20E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.48E-01	1.10E+00	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	2.29E+03	2.90E+01	2.80E-01	1.10E-02		4.10E-03	1.10E-02	J	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	2.29E+03	2.90E+01	4.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.48E+00	1.10E+00	6.60E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	4.30E+01	2.90E+01	3.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.83E+03	2.90E+01	1.60E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	1.72E+03	1.10E+00	2.20E-01	1.10E-02		3.60E-03	1.10E-02	J	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)													
4,4-DDE	4.80E-03	3 / 33	1.43E+01	2.10E-02	<	4.30E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDT	1.20E-02	8 / 33	1.72E+01	2.10E-02	2.60E-03	4.30E-03	J	<	4.20E-03	U	<	4.30E-03	U
alpha-Chlordane	3.40E-03	1 / 33	-	2.70E-01	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	3.04E-01	4.90E-03	**8.10E-03**	4.30E-03		<	4.20E-03	U	<	4.30E-03	U
gamma-Chlordane	1.90E-03	1 / 33	-	2.20E+00	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	5.30E-02	1.52E-01	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
POLYCHLORINATED BIPHENYLS (mg/kg)													
All nondetect	--	--											
EXPLOSIVES (mg/kg)													
All nondetect	--	--											

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS03-001*			CA508-SB03-005*			CA508-SB03-010*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	1.20E+01	7 / 33	1.00E+03	--	<	1.10E+01	UJ	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	1.00E+03	--	<	1.30E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	1.60E+02	18 / 33	1.00E+03	--	2.30E+01	2.10E+01		8.90E+00	2.10E+01	J	<	2.10E+01	U
METALS (mg/kg)													
Arsenic	5.59E+00	33 / 33	3.90E+00	1.80E+01	**5.59E+00**	5.20E-01		3.68E+00	5.01E-01		2.86E+00	5.06E-01	
Barium	8.44E+02	33 / 33	1.56E+04	3.30E+02	1.55E+02	5.20E-01		1.62E+02	5.01E-01		**4.46E+02**	5.06E-01	
Cadmium	3.79E+00	33 / 33	7.03E+01	3.60E-01	3.24E-01	5.20E-01	J	2.06E-01	5.01E-01	J	2.54E-01	5.06E-01	J
Chromium	1.89E+01	33 / 33	1.17E+05	2.60E+01	1.31E+01	5.20E-01		9.59E+00	5.01E-01		7.84E+00	5.06E-01	
Lead	3.13E+01	33 / 33	4.00E+02	1.10E+01	**1.50E+01**	5.20E-01		6.01E+00	5.01E-01		4.45E+00	5.06E-01	
Mercury	2.71E-02	3 / 33	1.56E+01	1.30E-02	<	1.06E-01	U	<	1.04E-01	U	<	1.05E-01	U
Selenium	3.00E-01	24 / 33	3.91E+02	5.20E-01	1.06E-01	5.20E-01	J	9.34E-02	5.01E-01	J	5.99E-02	5.06E-01	J
Silver	1.09E+00	12 / 33	3.91E+02	4.20E+00	5.66E-02	5.20E-01	J	<	5.01E-01	U	<	5.06E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB03-015			CA508-SS04-001*			CA508-SB04-004*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Carbazole	6.00E-01	1 / 33	--	8.00E+01	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	7.80E+01	6.10E+00	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.70E-01	4 / 33	3.10E+02	2.90E+01	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	3.44E+03	2.90E+01	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	-	2.90E+01	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	1.72E+04	2.90E+01	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	1.90E-02	2.20E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	1.48E-01	1.10E+00	<	1.10E-02	U	2.80E-02	2.20E-02		<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	3.80E-02	2.20E-02		<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E+00	15 / 33	-	1.10E+00	<	1.10E-02	U	1.90E-02	2.20E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	1.48E+01	1.10E+00	<	1.10E-02	U	1.10E-02	2.20E-02	J	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	1.48E+02	1.10E+00	<	1.10E-02	U	2.00E-02	2.20E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.48E-01	1.10E+00	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	2.29E+03	2.90E+01	<	1.10E-02	U	4.60E-02	2.20E-02		<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	2.29E+03	2.90E+01	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	2.10E-02	2.20E-02	J	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	4.30E+01	2.90E+01	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.83E+03	2.90E+01	<	1.10E-02	U	1.80E-02	2.20E-02	J	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	1.72E+03	1.10E+00	<	1.10E-02	U	3.80E-02	2.20E-02		<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)													
4,4-DDE	4.80E-03	3 / 33	1.43E+01	2.10E-02	<	4.30E-03	U	4.40E-03	4.30E-03		<	4.30E-03	U
4,4-DDT	1.20E-02	8 / 33	1.72E+01	2.10E-02	<	4.30E-03	U	6.60E-03	4.30E-03		<	4.30E-03	U
alpha-Chlordane	3.40E-03	1 / 33	-	2.70E-01	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	3.04E-01	4.90E-03	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
gamma-Chlordane	1.90E-03	1 / 33	-	2.20E+00	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	5.30E-02	1.52E-01	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
POLYCHLORINATED BIPHENYLS (mg/kg)													
All nondetect	--	--											
EXPLOSIVES (mg/kg)													
All nondetect	--	--											

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB03-015			CA508-SS04-001*			CA508-SB04-004*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	1.20E+01	7 / 33	1.00E+03	--	<	1.10E+01	U	2.90E+00	1.10E+01	J	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	1.00E+03	--	<	1.10E+00	U	<	1.20E+00	U	<	1.20E+00	U
Oil Range Organics	1.60E+02	18 / 33	1.00E+03	--	<	2.20E+01	U	6.70E+01	2.20E+01		<	2.10E+01	U
METALS (mg/kg)													
Arsenic	5.59E+00	33 / 33	3.90E+00	1.80E+01	2.39E+00	5.12E-01		3.82E+00	5.46E-01		3.70E+00	5.18E-01	
Barium	8.44E+02	33 / 33	1.56E+04	3.30E+02	3.85E+02	5.12E-01		1.30E+02	5.46E-01		2.22E+02	5.18E-01	
Cadmium	3.79E+00	33 / 33	7.03E+01	3.60E-01	2.28E-01	5.12E-01	J	**4.43E-01**	5.46E-01	J	1.82E-01	5.18E-01	J
Chromium	1.89E+01	33 / 33	1.17E+05	2.60E+01	8.34E+00	5.12E-01		1.49E+01	5.46E-01		8.87E+00	5.18E-01	
Lead	3.13E+01	33 / 33	4.00E+02	1.10E+01	4.47E+00	5.12E-01		**1.50E+01**	5.46E-01		5.32E+00	5.18E-01	
Mercury	2.71E-02	3 / 33	1.56E+01	1.30E-02	<	1.08E-01	U	**2.54E-02**	1.08E-01	J	<	1.07E-01	U
Selenium	3.00E-01	24 / 33	3.91E+02	5.20E-01	<	5.12E-01	U	3.00E-01	5.46E-01	J	7.21E-02	5.18E-01	J
Silver	1.09E+00	12 / 33	3.91E+02	4.20E+00	<	5.12E-01	U	9.19E-01	5.46E-01		<	5.18E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB04-009*			CA508-SB04-014			CA508-SS05-001*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	7.74E+02	1.40E+00	<	1.30E-02	U	<	1.00E-02	U	<	1.20E-02	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Carbazole	6.00E-01	1 / 33	--	8.00E+01	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dibenzofuran	4.70E-01	1 / 33	7.80E+01	6.10E+00	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.70E-01	4 / 33	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	6.80E-03	1.10E-02	J
Acenaphthene	7.80E-01	4 / 33	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	1.30E-02	1.10E-02	
Acenaphthylene	3.40E-02	3 / 33	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	7.80E-03	1.10E-02	J
Anthracene	7.80E-01	6 / 33	1.72E+04	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	1.80E-02	1.10E-02	J
Benzo(a)anthracene	1.80E+00	15 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.00E-01	1.10E-02	
Benzo(a)pyrene	2.00E+00	16 / 33	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.40E-01	1.10E-02	
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.90E-01	1.10E-02	
Benzo(g,h,i)perylene	1.10E+00	15 / 33	-	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.00E-01	1.10E-02	
Benzo(k)fluoranthene	8.70E-01	12 / 33	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	6.60E-02	1.10E-02	J
Chrysene	2.40E+00	12 / 33	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.60E-01	1.10E-02	
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	1.10E-02	
Fluoranthene	3.50E-01	16 / 32	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	3.50E-01	1.10E-02	
Fluorene	5.00E-01	4 / 33	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	7.80E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.48E+00	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	8.60E-02	1.10E-02	
Naphthalene	3.40E-01	4 / 33	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	3.90E-03	1.10E-02	J
Phenanthrene	2.20E-01	10 / 32	1.83E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	2.20E-01	1.10E-02	
Pyrene	3.00E-01	13 / 32	1.72E+03	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	3.00E-01	1.10E-02	
PESTICIDES (ORGANOCHLORINE) (mg/kg)													
4,4-DDE	4.80E-03	3 / 33	1.43E+01	2.10E-02	<	4.30E-03	U	<	4.40E-03	U	2.80E-03	4.30E-03	J
4,4-DDT	1.20E-02	8 / 33	1.72E+01	2.10E-02	<	4.30E-03	U	<	4.40E-03	U	6.70E-03	4.30E-03	
alpha-Chlordane	3.40E-03	1 / 33	-	2.70E-01	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Dieldrin	8.10E-03	3 / 33	3.04E-01	4.90E-03	<	4.30E-03	U	<	4.40E-03	U	2.10E-03	4.30E-03	J
gamma-Chlordane	1.90E-03	1 / 33	-	2.20E+00	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	5.30E-02	1.52E-01	1.20E-03	2.20E-03	J	<	2.20E-03	U	<	2.20E-03	U
POLYCHLORINATED BIPHENYLS (mg/kg)													
All nondetect	--	--											
EXPLOSIVES (mg/kg)													
All nondetect	--	--											

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB04-009*			CA508-SB04-014			CA508-SS05-001*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	1.20E+01	7 / 33	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	4.90E+00	1.10E+01	J
Gasoline Range Organics	2.60E+00	1 / 33	1.00E+03	--	<	1.10E+00	U	<	1.10E+00	U	<	1.40E+00	U
Oil Range Organics	1.60E+02	18 / 33	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	2.50E+01	2.20E+01	
METALS (mg/kg)													
Arsenic	5.59E+00	33 / 33	3.90E+00	1.80E+01	**3.95E+00**	5.31E-01		2.98E+00	5.34E-01		**4.59E+00**	5.28E-01	
Barium	8.44E+02	33 / 33	1.56E+04	3.30E+02	1.95E+02	5.31E-01		9.08E+01	5.34E-01		1.37E+02	5.28E-01	J
Cadmium	3.79E+00	33 / 33	7.03E+01	3.60E-01	2.48E-01	5.31E-01	J	2.87E-01	5.34E-01	J	3.46E-01	5.28E-01	J
Chromium	1.89E+01	33 / 33	1.17E+05	2.60E+01	1.02E+01	5.31E-01		1.02E+01	5.34E-01		1.45E+01	5.28E-01	
Lead	3.13E+01	33 / 33	4.00E+02	1.10E+01	6.90E+00	5.31E-01		6.63E+00	5.34E-01		**1.56E+01**	5.28E-01	
Mercury	2.71E-02	3 / 33	1.56E+01	1.30E-02	<	1.08E-01	U	<	1.08E-01	U	<	1.09E-01	U
Selenium	3.00E-01	24 / 33	3.91E+02	5.20E-01	<	5.31E-01	U	<	5.34E-01	U	1.30E-01	5.28E-01	J
Silver	1.09E+00	12 / 33	3.91E+02	4.20E+00	<	5.31E-01	U	<	5.34E-01	U	9.07E-02	5.28E-01	J

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB05-005*			CA508-SB05-010*			CA508-SB05-015		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Carbazole	6.00E-01	1 / 33	--	8.00E+01	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	7.80E+01	6.10E+00	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.70E-01	4 / 33	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	3.44E+03	2.90E+01	5.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	1.72E+04	2.90E+01	7.90E-03	1.10E-02	J	<	1.10E-02	U	3.40E-03	1.10E-02	J
Benzo(a)anthracene	1.80E+00	15 / 33	1.48E+00	1.10E+00	1.80E-02	1.10E-02		<	1.10E-02	U	8.20E-03	1.10E-02	J
Benzo(a)pyrene	2.00E+00	16 / 33	1.48E-01	1.10E+00	1.60E-02	1.10E-02		<	1.10E-02	U	6.60E-03	1.10E-02	J
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.48E+00	1.10E+00	2.00E-02	1.10E-02		<	1.10E-02	U	8.20E-03	1.10E-02	J
Benzo(g,h,i)perylene	1.10E+00	15 / 33	-	1.10E+00	1.30E-02	1.10E-02		<	1.10E-02	U	3.90E-03	1.10E-02	J
Benzo(k)fluoranthene	8.70E-01	12 / 33	1.48E+01	1.10E+00	7.30E-03	1.10E-02	J	<	1.10E-02	U	3.20E-03	1.10E-02	J
Chrysene	2.40E+00	12 / 33	1.48E+02	1.10E+00	1.50E-02	1.10E-02		<	1.10E-02	U	7.50E-03	1.10E-02	J
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.48E-01	1.10E+00	2.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	2.29E+03	2.90E+01	4.30E-02	1.10E-02		<	1.10E-02	U	1.90E-02	1.10E-02	
Fluorene	5.00E-01	4 / 33	2.29E+03	2.90E+01	4.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.48E+00	1.10E+00	1.00E-02	1.10E-02	J	<	1.10E-02	U	3.20E-03	1.10E-02	J
Naphthalene	3.40E-01	4 / 33	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.83E+03	2.90E+01	3.30E-02	1.10E-02		<	1.10E-02	U	1.90E-02	1.10E-02	
Pyrene	3.00E-01	13 / 32	1.72E+03	1.10E+00	3.50E-02	1.10E-02		<	1.10E-02	U	1.70E-02	1.10E-02	
PESTICIDES (ORGANOCHLORINE) (mg/kg)													
4,4-DDE	4.80E-03	3 / 33	1.43E+01	2.10E-02	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDT	1.20E-02	8 / 33	1.72E+01	2.10E-02	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
alpha-Chlordane	3.40E-03	1 / 33	-	2.70E-01	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	3.04E-01	4.90E-03	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
gamma-Chlordane	1.90E-03	1 / 33	-	2.20E+00	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	5.30E-02	1.52E-01	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
POLYCHLORINATED BIPHENYLS (mg/kg)													
All nondetect	--	--											
EXPLOSIVES (mg/kg)													
All nondetect	--	--											

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB05-005*			CA508-SB05-010*			CA508-SB05-015		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	1.20E+01	7 / 33	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	1.00E+03	--	<	1.10E+00	U	<	9.60E-01	U	<	1.30E+00	U
Oil Range Organics	1.60E+02	18 / 33	1.00E+03	--	9.80E+00	2.10E+01	J	<	2.10E+01	U	<	2.10E+01	U
METALS (mg/kg)													
Arsenic	5.59E+00	33 / 33	3.90E+00	1.80E+01	3.72E+00	5.03E-01		2.61E+00	5.13E-01		2.28E+00	5.10E-01	
Barium	8.44E+02	33 / 33	1.56E+04	3.30E+02	1.20E+02	5.03E-01		**4.72E+02**	5.13E-01		3.22E+02	5.10E-01	
Cadmium	3.79E+00	33 / 33	7.03E+01	3.60E-01	2.14E-01	5.03E-01	J	2.16E-01	5.13E-01	J	2.82E-01	5.10E-01	J
Chromium	1.89E+01	33 / 33	1.17E+05	2.60E+01	9.49E+00	5.03E-01		6.00E+00	5.13E-01		8.44E+00	5.10E-01	
Lead	3.13E+01	33 / 33	4.00E+02	1.10E+01	6.99E+00	5.03E-01		3.80E+00	5.13E-01		4.16E+00	5.10E-01	
Mercury	2.71E-02	3 / 33	1.56E+01	1.30E-02	<	1.05E-01	U	<	1.05E-01	U	<	1.07E-01	U
Selenium	3.00E-01	24 / 33	3.91E+02	5.20E-01	7.07E-02	5.03E-01	J	5.29E-02	5.13E-01	J	5.98E-02	5.10E-01	J
Silver	1.09E+00	12 / 33	3.91E+02	4.20E+00	7.84E-02	5.03E-01	J	<	5.13E-01	U	<	5.10E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS06-001*			CA508-SB06-004*			CA508-SB06-010*		
DATE COLLECTED					January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	7.74E+02	1.40E+00	5.10E-03	1.30E-02	J	<	1.10E-02	U	<	1.10E-02	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Carbazole	6.00E-01	1 / 33	--	8.00E+01	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	7.80E+01	6.10E+00	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.70E-01	4 / 33	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	1.72E+04	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.48E+00	1.10E+00	1.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	1.48E-01	1.10E+00	2.00E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.48E+00	1.10E+00	3.00E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E+00	15 / 33	-	1.10E+00	1.30E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	1.48E+01	1.10E+00	8.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	1.48E+02	1.10E+00	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	2.29E+03	2.90E+01	3.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.48E+00	1.10E+00	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.83E+03	2.90E+01	1.20E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	1.72E+03	1.10E+00	2.90E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)													
4,4-DDE	4.80E-03	3 / 33	1.43E+01	2.10E-02	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
4,4-DDT	1.20E-02	8 / 33	1.72E+01	2.10E-02	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
alpha-Chlordane	3.40E-03	1 / 33	-	2.70E-01	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	3.04E-01	4.90E-03	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
gamma-Chlordane	1.90E-03	1 / 33	-	2.20E+00	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	5.30E-02	1.52E-01	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
POLYCHLORINATED BIPHENYLS (mg/kg)													
All nondetect	--	--											
EXPLOSIVES (mg/kg)													
All nondetect	--	--											

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS06-001*			CA508-SB06-004*			CA508-SB06-010*		
DATE COLLECTED					January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	1.20E+01	7 / 33	1.00E+03	--	3.00E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	1.00E+03	--	<	1.20E+00	U	<	1.20E+00	U	<	1.20E+00	U
Oil Range Organics	1.60E+02	18 / 33	1.00E+03	--	4.20E+01	2.10E+01		1.10E+01	2.10E+01	J	<	2.10E+01	U
METALS (mg/kg)													
Arsenic	5.59E+00	33 / 33	3.90E+00	1.80E+01	3.74E+00	5.15E-01		3.73E+00	5.30E-01		2.35E+00	5.10E-01	
Barium	8.44E+02	33 / 33	1.56E+04	3.30E+02	1.18E+02	5.15E-01		1.21E+02	5.30E-01		1.71E+02	5.10E-01	
Cadmium	3.79E+00	33 / 33	7.03E+01	3.60E-01	**4.08E-01**	5.15E-01	J	2.32E-01	5.30E-01	J	1.99E-01	5.10E-01	J
Chromium	1.89E+01	33 / 33	1.17E+05	2.60E+01	1.34E+01	5.15E-01		1.23E+01	5.30E-01		6.21E+00	5.10E-01	
Lead	3.13E+01	33 / 33	4.00E+02	1.10E+01	**1.26E+01**	5.15E-01		7.65E+00	5.30E-01		3.92E+00	5.10E-01	
Mercury	2.71E-02	3 / 33	1.56E+01	1.30E-02	**2.71E-02**	1.06E-01	J	<	1.06E-01	U	<	1.05E-01	U
Selenium	3.00E-01	24 / 33	3.91E+02	5.20E-01	1.68E-01	5.15E-01	J	9.55E-02	5.30E-01	J	5.87E-02	5.10E-01	J
Silver	1.09E+00	12 / 33	3.91E+02	4.20E+00	9.01E-01	5.15E-01		1.37E-01	5.30E-01	J	<	5.10E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS07-001*			CA508-SB07-005*			CA508-SB07-009*		
DATE COLLECTED					January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	7.74E+02	1.40E+00	3.20E-03	1.00E-02	J	<	1.10E-02	U	<	1.00E-02	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Carbazole	6.00E-01	1 / 33	--	8.00E+01	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Dibenzofuran	4.70E-01	1 / 33	7.80E+01	6.10E+00	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.70E-01	4 / 33	3.10E+02	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	3.44E+03	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	-	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	1.72E+04	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.48E+00	1.10E+00	<	3.20E-02	U	3.50E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	1.48E-01	1.10E+00	1.50E-02	3.20E-02	J	6.70E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.48E+00	1.10E+00	1.30E-02	3.20E-02	J	4.70E-03	1.10E-02	J	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E+00	15 / 33	-	1.10E+00	<	3.20E-02	U	5.20E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	1.48E+01	1.10E+00	<	3.20E-02	U	3.70E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	1.48E+02	1.10E+00	<	3.20E-02	U	2.70E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.48E-01	1.10E+00	<	3.20E-02	U	7.20E-03	1.10E-02	J	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	2.29E+03	2.90E+01	9.80E-03	3.20E-02	J	2.70E-03	1.10E-02	J	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	2.29E+03	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.48E+00	1.10E+00	<	3.20E-02	U	6.90E-03	1.10E-02	J	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	4.30E+01	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.83E+03	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	1.72E+03	1.10E+00	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)													
4,4-DDE	4.80E-03	3 / 33	1.43E+01	2.10E-02	<	8.60E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDT	1.20E-02	8 / 33	1.72E+01	2.10E-02	5.40E-03	8.60E-03	J	<	4.20E-03	U	<	4.30E-03	U
alpha-Chlordane	3.40E-03	1 / 33	-	2.70E-01	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
Dieldrin	8.10E-03	3 / 33	3.04E-01	4.90E-03	<	8.60E-03	U	<	4.20E-03	U	<	4.30E-03	U
gamma-Chlordane	1.90E-03	1 / 33	-	2.20E+00	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	5.30E-02	1.52E-01	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
POLYCHLORINATED BIPHENYLS (mg/kg)													
All nondetect	--	--											
EXPLOSIVES (mg/kg)													
All nondetect	--	--											

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS07-001*			CA508-SB07-005*			CA508-SB07-009*		
DATE COLLECTED					January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	1.20E+01	7 / 33	1.00E+03	--	6.90E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	1.00E+03	--	2.60E+00	1.20E+00		<	1.20E+00	U	<	9.80E-01	U
Oil Range Organics	1.60E+02	18 / 33	1.00E+03	--	1.60E+02	2.10E+01		2.10E+01	2.10E+01		<	2.20E+01	U
METALS (mg/kg)													
Arsenic	5.59E+00	33 / 33	3.90E+00	1.80E+01	3.63E+00	5.01E-01		**4.17E+00**	5.28E-01		3.48E+00	5.04E-01	
Barium	8.44E+02	33 / 33	1.56E+04	3.30E+02	1.18E+02	5.01E-01		1.10E+02	5.28E-01		**8.44E+02**	5.04E-01	
Cadmium	3.79E+00	33 / 33	7.03E+01	3.60E-01	2.66E-01	5.01E-01	J	2.19E-01	5.28E-01	J	3.25E-01	5.04E-01	J
Chromium	1.89E+01	33 / 33	1.17E+05	2.60E+01	1.02E+01	5.01E-01		1.12E+01	5.28E-01		9.83E+00	5.04E-01	
Lead	3.13E+01	33 / 33	4.00E+02	1.10E+01	9.80E+00	5.01E-01		7.15E+00	5.28E-01		5.37E+00	5.04E-01	
Mercury	2.71E-02	3 / 33	1.56E+01	1.30E-02	<	1.07E-01	U	<	1.05E-01	U	<	1.07E-01	U
Selenium	3.00E-01	24 / 33	3.91E+02	5.20E-01	1.27E-01	5.01E-01	J	9.58E-02	5.28E-01	J	6.47E-02	5.04E-01	J
Silver	1.09E+00	12 / 33	3.91E+02	4.20E+00	<	5.01E-01	U	<	5.28E-01	U	<	5.04E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS08-001*			CA508-SB08-005*			CA508-SB08-010*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	7.74E+02	1.40E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Carbazole	6.00E-01	1 / 33	--	8.00E+01	6.00E-01	3.50E-01		<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	7.80E+01	6.10E+00	4.70E-01	3.50E-01		<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.70E-01	4 / 33	3.10E+02	2.90E+01	1.70E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	3.44E+03	2.90E+01	7.80E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	-	2.90E+01	3.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	1.72E+04	2.90E+01	7.80E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.48E+00	1.10E+00	**1.80E+00**	1.10E-02		6.40E-03	1.10E-02	J	3.50E-03	1.10E-02	J
Benzo(a)pyrene	2.00E+00	16 / 33	1.48E-01	1.10E+00	**2.00E+00**	1.10E-02		5.20E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.48E+00	1.10E+00	**2.50E+00**	1.10E-02		6.80E-03	1.10E-02	J	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E+00	15 / 33	-	1.10E+00	1.10E+00	1.10E-02		3.80E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	1.48E+01	1.10E+00	8.70E-01	1.10E-02		3.00E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	1.48E+02	1.10E+00	**2.40E+00**	1.10E-02		4.90E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.48E-01	1.10E+00	**2.50E-01**	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	2.29E+03	2.90E+01				8.40E-03	1.10E-02	J	4.30E-03	1.10E-02	J
Fluorene	5.00E-01	4 / 33	2.29E+03	2.90E+01	5.00E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.48E+00	1.10E+00	1.00E+00	1.10E-02		3.10E-03	1.10E-02	J	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	4.30E+01	2.90E+01	3.40E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.83E+03	2.90E+01				<	1.10E-02	U	2.70E-03	1.10E-02	J
Pyrene	3.00E-01	13 / 32	1.72E+03	1.10E+00				8.20E-03	1.10E-02	J	4.10E-03	1.10E-02	J
PESTICIDES (ORGANOCHLORINE) (mg/kg)													
4,4-DDE	4.80E-03	3 / 33	1.43E+01	2.10E-02	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
4,4-DDT	1.20E-02	8 / 33	1.72E+01	2.10E-02	1.30E-03	4.30E-03	J	<	4.20E-03	U	<	4.20E-03	U
alpha-Chlordane	3.40E-03	1 / 33	-	2.70E-01	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	3.04E-01	4.90E-03	1.50E-03	4.30E-03	J	<	4.20E-03	U	<	4.20E-03	U
gamma-Chlordane	1.90E-03	1 / 33	-	2.20E+00	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	5.30E-02	1.52E-01	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
POLYCHLORINATED BIPHENYLS (mg/kg)													
All nondetect	--	--											
EXPLOSIVES (mg/kg)													
All nondetect	--	--											

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS08-001*			CA508-SB08-005*			CA508-SB08-010*		
DATE COLLECTED					January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	1.20E+01	7 / 33	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	1.00E+03	--	<	1.20E+00	U	<	1.20E+00	U	<	1.10E+00	U
Oil Range Organics	1.60E+02	18 / 33	1.00E+03	--	1.80E+01	2.10E+01	J	9.70E+00	2.10E+01	J	<	2.10E+01	U
METALS (mg/kg)													
Arsenic	5.59E+00	33 / 33	3.90E+00	1.80E+01	**4.15E+00**	4.95E-01		3.79E+00	5.24E-01		2.39E+00	5.21E-01	
Barium	8.44E+02	33 / 33	1.56E+04	3.30E+02	1.13E+02	4.95E-01		1.55E+02	5.24E-01		1.37E+02	5.21E-01	J
Cadmium	3.79E+00	33 / 33	7.03E+01	3.60E-01	3.56E-01	4.95E-01	J	2.24E-01	5.24E-01	J	2.06E-01	5.21E-01	J
Chromium	1.89E+01	33 / 33	1.17E+05	2.60E+01	1.35E+01	4.95E-01		1.11E+01	5.24E-01		6.99E+00	5.21E-01	
Lead	3.13E+01	33 / 33	4.00E+02	1.10E+01	**1.30E+01**	4.95E-01		6.44E+00	5.24E-01		4.09E+00	5.21E-01	
Mercury	2.71E-02	3 / 33	1.56E+01	1.30E-02	<	1.06E-01	U	<	1.06E-01	U	<	1.04E-01	U
Selenium	3.00E-01	24 / 33	3.91E+02	5.20E-01	1.34E-01	4.95E-01	J	1.02E-01	5.24E-01	J	<	5.21E-01	U
Silver	1.09E+00	12 / 33	3.91E+02	4.20E+00	6.36E-02	4.95E-01	J	<	5.24E-01	U	<	5.21E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS09-001*			CA508-SB09-005*			CA508-SB09-010*		
DATE COLLECTED					January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	7.74E+02	1.40E+00	<	1.30E-02	U	<	1.30E-02	U	<	1.00E-02	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
Carbazole	6.00E-01	1 / 33	--	8.00E+01	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	7.80E+01	6.10E+00	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.70E-01	4 / 33	3.10E+02	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	3.44E+03	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	-	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	1.72E+04	2.90E+01	9.30E-03	3.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.48E+00	1.10E+00	5.30E-02	3.20E-02		2.90E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	1.48E-01	1.10E+00	6.30E-02	3.20E-02		6.00E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.48E+00	1.10E+00	9.10E-02	3.20E-02		5.60E-03	1.10E-02	J	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E+00	15 / 33	-	1.10E+00	4.20E-02	3.20E-02		3.80E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	1.48E+01	1.10E+00	2.10E-02	3.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	1.48E+02	1.10E+00	5.10E-02	3.20E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.48E-01	1.10E+00	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	2.29E+03	2.90E+01	1.20E-01	3.20E-02		5.50E-03	1.10E-02	J	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	2.29E+03	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.48E+00	1.10E+00	4.20E-02	3.20E-02		5.50E-03	1.10E-02	J	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	4.30E+01	2.90E+01	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.83E+03	2.90E+01	5.80E-02	3.20E-02		<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	1.72E+03	1.10E+00	1.00E-01	3.20E-02		4.60E-03	1.10E-02	J	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)													
4,4-DDE	4.80E-03	3 / 33	1.43E+01	2.10E-02	<	8.50E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDT	1.20E-02	8 / 33	1.72E+01	2.10E-02	2.60E-03	8.50E-03	J	1.70E-03	4.20E-03	J	<	4.30E-03	U
alpha-Chlordane	3.40E-03	1 / 33	-	2.70E-01	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	3.04E-01	4.90E-03	<	8.50E-03	U	<	4.20E-03	U	<	4.30E-03	U
gamma-Chlordane	1.90E-03	1 / 33	-	2.20E+00	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	5.30E-02	1.52E-01	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
POLYCHLORINATED BIPHENYLS (mg/kg)													
All nondetect	--	--											
EXPLOSIVES (mg/kg)													
All nondetect	--	--											

TABLE 5-7a
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS09-001*			CA508-SB09-005*			CA508-SB09-010*		
DATE COLLECTED					January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency			Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	1.20E+01	7 / 33	1.00E+03	--	6.00E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	1.00E+03	--	<	1.30E+00	U	<	1.30E+00	U	<	9.70E-01	U
Oil Range Organics	1.60E+02	18 / 33	1.00E+03	--	6.70E+01	2.10E+01		1.40E+01	2.10E+01	J	<	2.10E+01	U
METALS (mg/kg)													
Arsenic	5.59E+00	33 / 33	3.90E+00	1.80E+01	3.86E+00	5.12E-01		3.41E+00	5.15E-01		2.38E+00	5.16E-01	
Barium	8.44E+02	33 / 33	1.56E+04	3.30E+02	1.47E+02	5.12E-01		1.89E+02	5.15E-01		**3.98E+02**	5.16E-01	
Cadmium	3.79E+00	33 / 33	7.03E+01	3.60E-01	**1.98E+00**	5.12E-01		**5.63E-01**	5.15E-01		3.14E-01	5.16E-01	J
Chromium	1.89E+01	33 / 33	1.17E+05	2.60E+01	1.24E+01	5.12E-01		9.65E+00	5.15E-01		6.97E+00	5.16E-01	
Lead	3.13E+01	33 / 33	4.00E+02	1.10E+01	**3.08E+01**	5.12E-01		8.55E+00	5.15E-01		5.82E+00	5.16E-01	
Mercury	2.71E-02	3 / 33	1.56E+01	1.30E-02	<	1.06E-01	U	<	1.05E-01	U	<	1.07E-01	U
Selenium	3.00E-01	24 / 33	3.91E+02	5.20E-01	1.14E-01	5.12E-01	J	7.54E-02	5.15E-01	J	<	5.16E-01	U
Silver	1.09E+00	12 / 33	3.91E+02	4.20E+00	9.97E-02	5.12E-01	J	<	5.15E-01	U	<	5.16E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7b
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS (DIOXINS/FURANS)
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS01-001				CA508-SB01-004				CA508-SB01-009			
DATE COLLECTED					January 23, 2013				January 23, 2013				January 23, 2013			
	Maximum	Frequency			Result	EDL	MRL	Qual	Result	EDL	MRL	Qual	Result	EDL	MRL	Qual
DIOXINS/FURANS (ng/kg)																
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	--	--	4.63E+02	1.91E+00	2.66E+00		1.73E+02	1.12E+00	2.61E+00		7.84E+00	1.04E+00	2.58E+00	
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	--	--	1.54E+01	1.08E+00	2.66E+00		4.90E+00	6.99E-01	2.61E+00	J	<	4.89E-01	2.58E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	--	--	6.03E+00	9.25E-01	2.66E+00		2.29E+00	7.24E-01	2.61E+00	J	<	4.77E-01	2.58E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	--	--	2.30E+00	6.99E-01	2.66E+00	J	1.22E+00	4.22E-01	2.61E+00	J	<	3.99E-01	2.58E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01 J	10 / 33	--	--	1.66E+01	8.98E-01	2.66E+00	J	5.67E+00	7.57E-01	2.61E+00		<	4.82E-01	2.58E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	--	--	2.24E+00	6.77E-01	2.66E+00	J	7.85E-01	4.19E-01	2.61E+00	J	<	3.70E-01	2.58E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	--	--	1.82E+01	8.68E-01	2.66E+00		6.01E+00	7.07E-01	2.61E+00		<	4.57E-01	2.58E+00	U
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	--	--	2.21E+00	5.67E-01	2.66E+00	J	1.26E+00	9.94E-01	2.61E+00	J	<	6.25E-01	2.58E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	--	--	3.71E+00	6.88E-01	2.66E+00		1.10E+00	4.21E-01	2.61E+00	J	<	3.87E-01	2.58E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	--	--	1.23E+00	4.66E-01	2.66E+00	J	6.62E-01	4.71E-01	2.61E+00	J	<	4.26E-01	2.58E+00	U
OCDD	2.75E+03 J	23 / 33	--	--	2.75E+03	3.97E+00	5.33E+00	J	1.21E+03	2.57E+00	5.22E+00	J	5.55E+01	2.28E+00	5.17E+00	
OCDF	1.99E+01	11 / 33	--	--	1.99E+01	2.87E+00	5.33E+00		7.15E+00	2.10E+00	5.22E+00		<	2.06E+00	5.17E+00	U

Notes:
Residential Human Health and Ecological PALS do not exist for Dioxin/Furan detection
EDL = Estimated Detection Limit
J = estimated
LOQ = limit of quantitation
ng/kg = nanograms per kilogram
MRL = Method Reporting Limit
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7b
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS (DIOXINS/FURANS)
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB01-015				CA508-SB01-020				CA508-SS02-001			
DATE COLLECTED					January 23, 2013				January 23, 2013				January 23, 2013			
	Maximum	Frequency			Result	EDL	MRL	Qual	Result	EDL	MRL	Qual	Result	EDL	MRL	Qual
DIOXINS/FURANS (ng/kg)																
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	--	--	6.03E+01	1.27E+00	2.68E+00		2.00E+02	1.37E+00	2.58E+00		1.36E+01	1.03E+00	2.75E+00	
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	--	--	1.93E+00	7.57E-01	2.68E+00	J	7.79E+00	7.07E-01	2.58E+00		2.08E+00	3.33E-01	2.75E+00	J
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	--	--	1.11E+00	6.47E-01	2.68E+00	J	2.26E+00	6.57E-01	2.58E+00	J	<	2.16E-01	2.75E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	--	--	<	3.60E-01	2.68E+00	UJ	1.51E+00	5.46E-01	2.58E+00	J	<	5.42E-01	2.75E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01 J	10 / 33	--	--	2.31E+00	6.72E-01	2.68E+00	J	6.86E+00	6.85E-01	2.58E+00		<	2.24E-01	2.75E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	--	--	<	3.28E-01	2.68E+00	U	1.05E+00	5.27E-01	2.58E+00	J	<	5.22E-01	2.75E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	--	--	2.12E+00	6.29E-01	2.68E+00	J	6.13E+00	6.40E-01	2.58E+00		<	2.08E-01	2.75E+00	U
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	--	--	<	7.65E-01	2.68E+00	U	<	8.54E-01	2.58E+00	U	<	3.98E-01	2.75E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	--	--	<	3.38E-01	2.68E+00	UJ	1.06E+00	5.10E-01	2.58E+00	J	1.15E+00	5.29E-01	2.75E+00	J
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	--	--	<	4.10E-01	2.68E+00	U	<	5.62E-01	2.58E+00	U	<	2.72E-01	2.75E+00	U
OCDD	2.75E+03 J	23 / 33	--	--	3.77E+02	2.50E+00	5.37E+00		1.46E+03	2.45E+00	5.17E+00		1.03E+02	7.54E-01	5.49E+00	
OCDF	1.99E+01	11 / 33	--	--	2.62E+00	2.24E+00	5.37E+00	J	6.33E+00	2.90E+00	5.17E+00		2.40E+00	1.53E+00	5.49E+00	J

Notes:
Residential Human Health and Ecological PALS do not exist for Dioxin/Furan detection
EDL = Estimated Detection Limit
J = estimated
LOQ = limit of quantitation
ng/kg = nanograms per kilogram
MRL = Method Reporting Limit
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7b
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS (DIOXINS/FURANS)
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB02-003				CA508-SB02-010				CA508-SB02-015			
DATE COLLECTED					January 23, 2013				January 23, 2013				January 23, 2013			
	Maximum	Frequency			Result	EDL	MRL	Qual	Result	EDL	MRL	Qual	Result	EDL	MRL	Qual
DIOXINS/FURANS (ng/kg)																
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	--	--	<	4.85E-01	2.57E+00	U	<	8.61E-01	2.61E+00	U	<	4.76E-01	2.72E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	--	--	<	1.96E-01	2.57E+00	U	<	4.70E-01	2.61E+00	U	<	2.27E-01	2.72E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	--	--	<	2.25E-01	2.57E+00	U	<	2.77E-01	2.61E+00	U	<	2.85E-01	2.72E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	--	--	<	1.74E-01	2.57E+00	U	<	2.88E-01	2.61E+00	U	<	3.13E-01	2.72E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01 J	10 / 33	--	--	<	2.19E-01	2.57E+00	U	<	2.98E-01	2.61E+00	U	<	3.25E-01	2.72E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	--	--	<	1.68E-01	2.57E+00	U	<	2.76E-01	2.61E+00	U	<	2.78E-01	2.72E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	--	--	<	2.09E-01	2.57E+00	U	<	2.73E-01	2.61E+00	U	<	2.90E-01	2.72E+00	U
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	--	--	<	2.06E-01	2.57E+00	U	<	2.11E-01	2.61E+00	U	<	3.57E-01	2.72E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	--	--	<	1.74E-01	2.57E+00	U	<	2.84E-01	2.61E+00	U	<	2.99E-01	2.72E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	--	--	<	1.83E-01	2.57E+00	U	<	1.97E-01	2.61E+00	U	<	2.70E-01	2.72E+00	U
OCDD	2.75E+03 J	23 / 33	--	--	<	4.97E-01	5.15E+00	U	1.92E+00	9.92E-01	5.23E+00	J	<	7.26E-01	5.43E+00	U
OCDF	1.99E+01	11 / 33	--	--	<	8.52E-01	5.15E+00	U	<	8.89E-01	5.23E+00	U	<	8.28E-01	5.43E+00	U

Notes:
Residential Human Health and Ecological PALS do not exist for Dioxin/Furan detection
EDL = Estimated Detection Limit
J = estimated
LOQ = limit of quantitation
ng/kg = nanograms per kilogram
MRL = Method Reporting Limit
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7b
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS (DIOXINS/FURANS)
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS03-001				CA508-SB03-005				CA508-SB03-010			
DATE COLLECTED					January 23, 2013				January 23, 2013				January 23, 2013			
	Maximum	Frequency			Result	EDL	MRL	Qual	Result	EDL	MRL	Qual	Result	EDL	MRL	Qual
DIOXINS/FURANS (ng/kg)																
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	--	--	1.72E+01	9.03E-01	2.69E+00		9.33E-01	5.94E-01	2.60E+00	J	<	4.71E-01	2.58E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	--	--	2.35E+00	4.91E-01	2.69E+00	J	<	4.11E-01	2.60E+00	U	<	2.55E-01	2.58E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	--	--	<	4.25E-01	2.69E+00	U	<	5.55E-01	2.60E+00	U	<	1.71E-01	2.58E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	--	--	3.94E-01	3.34E-01	2.69E+00	J	<	3.43E-01	2.60E+00	U	<	2.29E-01	2.58E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01 J	10 / 33	--	--	5.86E-01	4.21E-01	2.69E+00	J	<	5.83E-01	2.60E+00	U	<	1.78E-01	2.58E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	--	--	<	3.24E-01	2.69E+00	U	<	3.34E-01	2.60E+00	U	<	2.05E-01	2.58E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	--	--	<	4.04E-01	2.69E+00	U	<	5.44E-01	2.60E+00	U	<	1.66E-01	2.58E+00	U
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	--	--	<	4.30E-01	2.69E+00	U	<	3.82E-01	2.60E+00	U	<	3.24E-01	2.58E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	--	--	4.74E-01	3.35E-01	2.69E+00	J	<	3.34E-01	2.60E+00	U	<	2.19E-01	2.58E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	--	--	3.05E-01	2.18E-01	2.69E+00	J	<	2.47E-01	2.60E+00	U	<	2.44E-01	2.58E+00	U
OCDD	2.75E+03 J	23 / 33	--	--	1.79E+02	1.20E+00	5.38E+00		9.70E+00	1.22E+00	5.21E+00		<	7.96E-01	5.15E+00	U
OCDF	1.99E+01	11 / 33	--	--	5.40E+00	1.44E+00	5.38E+00		<	9.61E-01	5.21E+00	U	<	9.08E-01	5.15E+00	U

Notes:
Residential Human Health and Ecological PALS do not exist for Dioxin/Furan detection
EDL = Estimated Detection Limit
J = estimated
LOQ = limit of quantitation
ng/kg = nanograms per kilogram
MRL = Method Reporting Limit
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7b
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS (DIOXINS/FURANS)
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB03-015				CA508-SS04-001				CA508-SB04-004			
DATE COLLECTED					January 23, 2013				January 23, 2013				January 23, 2013			
	Maximum	Frequency			Result	EDL	MRL	Qual	Result	EDL	MRL	Qual	Result	EDL	MRL	Qual
DIOXINS/FURANS (ng/kg)																
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	--	--	<	4.30E-01	2.65E+00	U	2.86E+01	1.14E+00	2.70E+00		<	5.75E-01	2.63E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	--	--	<	3.77E-01	2.65E+00	U	2.44E+00	3.21E-01	2.70E+00	J	<	4.57E-01	2.63E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	--	--	<	2.26E-01	2.65E+00	U	<	4.40E-01	2.70E+00	U	<	4.35E-01	2.63E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	--	--	<	2.53E-01	2.65E+00	U	<	5.30E-01	2.70E+00	U	<	3.41E-01	2.63E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01 J	10 / 33	--	--	<	2.51E-01	2.65E+00	U	<	4.05E-01	2.70E+00	U	<	4.23E-01	2.63E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	--	--	<	2.33E-01	2.65E+00	U	<	5.07E-01	2.70E+00	U	<	3.06E-01	2.63E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	--	--	<	2.27E-01	2.65E+00	U	1.02E+00	3.97E-01	2.70E+00	J	<	4.05E-01	2.63E+00	U
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	--	--	<	4.95E-01	2.65E+00	U	6.77E-01	4.26E-01	2.70E+00	J	<	4.24E-01	2.63E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	--	--	<	2.36E-01	2.65E+00	U	1.67E+00	5.31E-01	2.70E+00	J	<	3.15E-01	2.63E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	--	--	<	2.50E-01	2.65E+00	U	<	4.70E-01	2.70E+00	U	<	3.84E-01	2.63E+00	U
OCDD	2.75E+03 J	23 / 33	--	--	<	6.87E-01	5.30E+00	U	1.76E+02	1.12E+00	5.41E+00	J	5.85E+00	9.44E-01	5.25E+00	
OCDF	1.99E+01	11 / 33	--	--	<	7.28E-01	5.30E+00	U	2.38E+00	1.21E+00	5.41E+00	J	<	8.47E-01	5.25E+00	U

Notes:
Residential Human Health and Ecological PALS do not exist for Dioxin/Furan detection
EDL = Estimated Detection Limit
J = estimated
LOQ = limit of quantitation
ng/kg = nanograms per kilogram
MRL = Method Reporting Limit
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7b
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS (DIOXINS/FURANS)
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB04-009				CA508-SB04-014				CA508-SS05-001			
DATE COLLECTED					January 23, 2013				January 23, 2013				January 23, 2013			
	Maximum	Frequency			Result	EDL	MRL	Qual	Result	EDL	MRL	Qual	Result	EDL	MRL	Qual
DIOXINS/FURANS (ng/kg)																
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	--	--	<	8.23E-01	2.72E+00	U	<	9.94E-01	2.69E+00	U	1.90E+01	7.71E-01	2.72E+00	
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	--	--	<	4.09E-01	2.72E+00	U	<	5.36E-01	2.69E+00	U	1.80E+00	3.92E-01	2.72E+00	J
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	--	--	<	2.78E-01	2.72E+00	U	<	6.07E-01	2.69E+00	U	<	2.57E-01	2.72E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	--	--	<	2.68E-01	2.72E+00	U	<	3.50E-01	2.69E+00	U	<	1.75E-01	2.72E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01 J	10 / 33	--	--	<	3.15E-01	2.72E+00	U	<	6.04E-01	2.69E+00	U	<	2.55E-01	2.72E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	--	--	<	2.26E-01	2.72E+00	U	<	3.28E-01	2.69E+00	U	<	1.70E-01	2.72E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	--	--	<	2.81E-01	2.72E+00	U	<	5.77E-01	2.69E+00	U	<	2.42E-01	2.72E+00	U
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	--	--	<	4.45E-01	2.72E+00	U	<	6.60E-01	2.69E+00	U	<	3.53E-01	2.72E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	--	--	<	2.51E-01	2.72E+00	U	<	3.42E-01	2.69E+00	U	<	1.67E-01	2.72E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	--	--	<	4.45E-01	2.72E+00	U	<	3.13E-01	2.69E+00	U	<	2.72E-01	2.72E+00	U
OCDD	2.75E+03 J	23 / 33	--	--	<	1.16E+00	5.44E+00	U	<	3.01E+00	5.37E+00	U	1.60E+02	9.98E-01	5.45E+00	
OCDF	1.99E+01	11 / 33	--	--	<	1.21E+00	5.44E+00	U	<	2.32E+00	5.37E+00	U	4.05E+00	1.19E+00	5.45E+00	J

Notes:
Residential Human Health and Ecological PALS do not exist for Dioxin/Furan detection
EDL = Estimated Detection Limit
J = estimated
LOQ = limit of quantitation
ng/kg = nanograms per kilogram
MRL = Method Reporting Limit
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7b
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS (DIOXINS/FURANS)
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SB05-005				CA508-SB05-010				CA508-SB05-015			
DATE COLLECTED					January 23, 2013				January 23, 2013				January 23, 2013			
	Maximum	Frequency			Result	EDL	MRL	Qual	Result	EDL	MRL	Qual	Result	EDL	MRL	Qual
DIOXINS/FURANS (ng/kg)																
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	--	--	<	6.18E-01	2.56E+00	U	<	5.92E-01	2.58E+00	U	<	6.64E-01	2.63E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	--	--	<	2.74E-01	2.56E+00	U	<	3.72E-01	2.58E+00	U	<	3.62E-01	2.63E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	--	--	<	4.16E-01	2.56E+00	U	<	3.10E-01	2.58E+00	U	<	2.16E-01	2.63E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	--	--	<	3.16E-01	2.56E+00	U	<	2.64E-01	2.58E+00	U	<	2.17E-01	2.63E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01 J	10 / 33	--	--	<	4.32E-01	2.56E+00	U	<	3.42E-01	2.58E+00	U	<	2.42E-01	2.63E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	--	--	<	2.92E-01	2.56E+00	U	<	2.55E-01	2.58E+00	U	<	1.98E-01	2.63E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	--	--	<	4.02E-01	2.56E+00	U	<	3.10E-01	2.58E+00	U	<	2.17E-01	2.63E+00	U
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	--	--	<	3.46E-01	2.56E+00	U	<	3.76E-01	2.58E+00	U	<	3.04E-01	2.63E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	--	--	<	3.29E-01	2.56E+00	U	<	2.70E-01	2.58E+00	U	<	2.04E-01	2.63E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	--	--	<	3.08E-01	2.56E+00	U	<	3.03E-01	2.58E+00	U	<	2.45E-01	2.63E+00	U
OCDD	2.75E+03 J	23 / 33	--	--	5.02E+00	6.28E-01	5.12E+00	J	<	7.86E-01	5.16E+00	U	<	1.12E+00	5.27E+00	U
OCDF	1.99E+01	11 / 33	--	--	<	7.41E-01	5.12E+00	U	<	5.85E-01	5.16E+00	U	<	8.26E-01	5.27E+00	U

Notes:
Residential Human Health and Ecological PALS do not exist for Dioxin/Furan detection
EDL = Estimated Detection Limit
J = estimated
LOQ = limit of quantitation
ng/kg = nanograms per kilogram
MRL = Method Reporting Limit
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7b
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS (DIOXINS/FURANS)
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS06-001				CA508-SB06-004				CA508-SB06-010			
DATE COLLECTED					January 22, 2013				January 22, 2013				January 22, 2013			
	Maximum	Frequency			Result	EDL	MRL	Qual	Result	EDL	MRL	Qual	Result	EDL	MRL	Qual
DIOXINS/FURANS (ng/kg)																
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	--	--	1.57E+01	1.13E+00	2.57E+00		1.47E+00	9.74E-01	2.64E+00	J	<	7.83E-01	2.58E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	--	--	2.74E+00	5.68E-01	2.57E+00		<	5.48E-01	2.64E+00	U	<	4.29E-01	2.58E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	--	--	<	7.34E-01	2.57E+00	U	<	8.52E-01	2.64E+00	U	<	4.26E-01	2.58E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	--	--	<	6.87E-01	2.57E+00	U	<	5.45E-01	2.64E+00	U	<	2.38E-01	2.58E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01 J	10 / 33	--	--	9.56E-01	6.77E-01	2.57E+00	J	<	8.92E-01	2.64E+00	U	<	3.97E-01	2.58E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	--	--	<	6.71E-01	2.57E+00	U	<	5.31E-01	2.64E+00	U	<	2.31E-01	2.58E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	--	--	<	6.68E-01	2.57E+00	U	<	8.32E-01	2.64E+00	U	<	3.91E-01	2.58E+00	U
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	--	--	<	7.86E-01	2.57E+00	U	<	6.14E-01	2.64E+00	U	<	7.25E-01	2.58E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	--	--	8.90E-01	6.90E-01	2.57E+00	J	<	5.64E-01	2.64E+00	U	<	2.32E-01	2.58E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	--	--	<	3.42E-01	2.57E+00	U	<	4.83E-01	2.64E+00	U	<	4.07E-01	2.58E+00	U
OCDD	2.75E+03 J	23 / 33	--	--	1.13E+02	2.17E+00	5.14E+00		1.12E+01	2.09E+00	5.29E+00		2.20E+00	1.66E+00	5.16E+00	J
OCDF	1.99E+01	11 / 33	--	--	4.96E+00	2.13E+00	5.14E+00	J	<	1.87E+00	5.29E+00	U	<	1.32E+00	5.16E+00	U

Notes:
Residential Human Health and Ecological PALS do not exist for Dioxin/Furan detection
EDL = Estimated Detection Limit
J = estimated
LOQ = limit of quantitation
ng/kg = nanograms per kilogram
MRL = Method Reporting Limit
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7b
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS (DIOXINS/FURANS)
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS07-001				CA508-SB07-005				CA508-SB07-009			
DATE COLLECTED					January 22, 2013				January 22, 2013				January 22, 2013			
	Maximum	Frequency			Result	EDL	MRL	Qual	Result	EDL	MRL	Qual	Result	EDL	MRL	Qual
DIOXINS/FURANS (ng/kg)																
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	--	--	9.87E+00	1.50E+00	2.62E+00	J	<	1.04E+00	2.68E+00	U	<	1.29E+00	3.20E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	--	--	1.85E+00	8.60E-01	2.62E+00	J	<	6.26E-01	2.68E+00	U	<	6.57E-01	3.20E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	--	--	<	8.01E-01	2.62E+00	U	<	6.38E-01	2.68E+00	U	<	6.75E-01	3.20E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	--	--	<	4.23E-01	2.62E+00	U	<	4.82E-01	2.68E+00	U	<	4.65E-01	3.20E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01 J	10 / 33	--	--	<	8.27E-01	2.62E+00	U	<	6.52E-01	2.68E+00	U	<	6.95E-01	3.20E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	--	--	8.78E-01	4.03E-01	2.62E+00	J	<	4.51E-01	2.68E+00	U	<	4.43E-01	3.20E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	--	--	<	7.76E-01	2.62E+00	U	<	6.14E-01	2.68E+00	U	<	6.53E-01	3.20E+00	U
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	--	--	<	8.03E-01	2.62E+00	U	<	7.52E-01	2.68E+00	U	<	1.16E+00	3.20E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	--	--	2.27E+00	3.98E-01	2.62E+00	J	<	4.65E-01	2.68E+00	U	<	4.68E-01	3.20E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	--	--	<	5.35E-01	2.62E+00	U	<	4.83E-01	2.68E+00	U	<	5.60E-01	3.20E+00	U
OCDD	2.75E+03 J	23 / 33	--	--	6.70E+01	2.87E+00	5.23E+00	J	5.70E+00	3.37E+00	5.35E+00	J	<	2.09E+00	6.41E+00	U
OCDF	1.99E+01	11 / 33	--	--	<	2.93E+00	5.23E+00	U	<	2.08E+00	5.35E+00	U	<	2.32E+00	6.41E+00	U

Notes:
Residential Human Health and Ecological PALS do not exist for Dioxin/Furan detection
EDL = Estimated Detection Limit
J = estimated
LOQ = limit of quantitation
ng/kg = nanograms per kilogram
MRL = Method Reporting Limit
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7b
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS (DIOXINS/FURANS)
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS08-001				CA508-SB08-005				CA508-SB08-010			
DATE COLLECTED					January 23, 2013				January 23, 2013				January 23, 2013			
	Maximum	Frequency			Result	EDL	MRL	Qual	Result	EDL	MRL	Qual	Result	EDL	MRL	Qual
DIOXINS/FURANS (ng/kg)																
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	--	--	1.52E+01	1.94E-01	2.68E+00		7.62E-01	2.41E-01	2.64E+00	J	<	6.14E-01	2.62E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	--	--	1.64E+00	9.46E-02	2.68E+00	J	<	1.52E-01	2.64E+00	U	<	4.19E-01	2.62E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	--	--	<	1.39E-01	2.68E+00	U	<	1.27E-01	2.64E+00	U	<	2.47E-01	2.62E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	--	--	5.74E-01	1.24E-01	2.68E+00	J	<	1.17E-01	2.64E+00	U	<	2.46E-01	2.62E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01 J	10 / 33	--	--	4.17E-01	1.56E-01	2.68E+00	J	<	1.53E-01	2.64E+00	U	<	2.72E-01	2.62E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	--	--	<	1.23E-01	2.68E+00	U	<	1.13E-01	2.64E+00	U	<	2.25E-01	2.62E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	--	--	<	1.40E-01	2.68E+00	U	<	1.32E-01	2.64E+00	U	<	2.47E-01	2.62E+00	U
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	--	--	<	1.45E-01	2.68E+00	U	<	1.68E-01	2.64E+00	U	<	2.43E-01	2.62E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	--	--	<	1.22E-01	2.68E+00	U	<	1.15E-01	2.64E+00	U	<	2.32E-01	2.62E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	--	--	<	1.21E-01	2.68E+00	U	<	9.39E-02	2.64E+00	U	<	2.93E-01	2.62E+00	U
OCDD	2.75E+03 J	23 / 33	--	--	1.64E+02	3.59E-01	5.35E+00		5.34E+00	2.89E-01	5.28E+00	J	<	7.20E-01	5.24E+00	U
OCDF	1.99E+01	11 / 33	--	--	2.80E+00	4.39E-01	5.35E+00	J	<	4.07E-01	5.28E+00	U	<	8.26E-01	5.24E+00	U

Notes:
Residential Human Health and Ecological PALS do not exist for Dioxin/Furan detection
EDL = Estimated Detection Limit
J = estimated
LOQ = limit of quantitation
ng/kg = nanograms per kilogram
MRL = Method Reporting Limit
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-7b
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS (DIOXINS/FURANS)
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			Residential Human Health PAL	Ecological PAL	CA508-SS09-001				CA508-SB09-005				CA508-SB09-010			
DATE COLLECTED					January 22, 2013				January 22, 2013				January 22, 2013			
	Maximum	Frequency			Result	EDL	MRL	Qual	Result	EDL	MRL	Qual	Result	EDL	MRL	Qual
DIOXINS/FURANS (ng/kg)																
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	--	--	2.91E+02	8.16E-01	2.65E+00		5.59E+01	9.04E-01	2.58E+00		2.67E+01	1.15E+00	2.66E+00	
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	--	--	7.66E+00	4.95E-01	2.65E+00		8.95E-01	5.17E-01	2.58E+00	J	7.15E-01	4.70E-01	2.66E+00	J
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	--	--	3.11E+00	9.08E-01	2.65E+00		<	6.33E-01	2.58E+00	U	<	4.07E-01	2.66E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	--	--	1.59E+00	5.11E-01	2.65E+00	J	<	3.23E-01	2.58E+00	U	<	2.58E-01	2.66E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01 J	10 / 33	--	--	1.18E+01	8.72E-01	2.65E+00		2.04E+00	6.17E-01	2.58E+00	J	1.35E+00	4.02E-01	2.66E+00	J
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	--	--	1.33E+00	5.16E-01	2.65E+00	J	<	3.22E-01	2.58E+00	U	<	2.54E-01	2.66E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	--	--	9.60E+00	8.47E-01	2.65E+00		1.07E+00	5.95E-01	2.58E+00	J	1.12E+00	3.86E-01	2.66E+00	J
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	--	--	1.88E+00	6.12E-01	2.65E+00	J	<	6.48E-01	2.58E+00	U	<	7.95E-01	2.66E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	--	--	1.59E+00	5.40E-01	2.65E+00	J	<	3.22E-01	2.58E+00	U	<	2.52E-01	2.66E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	--	--	<	2.93E-01	2.65E+00	U	<	3.32E-01	2.58E+00	U	<	4.09E-01	2.66E+00	U
OCDD	2.75E+03 J	23 / 33	--	--	1.48E+03	3.33E+00	5.31E+00	J	2.23E+02	2.22E+00	5.17E+00		9.84E+01	1.77E+00	5.31E+00	J
OCDF	1.99E+01	11 / 33	--	--	7.86E+00	2.56E+00	5.31E+00		<	2.23E+00	5.17E+00	U	<	1.62E+00	5.31E+00	U

Notes:
Residential Human Health and Ecological PALS do not exist for Dioxin/Furan detection
EDL = Estimated Detection Limit
J = estimated
LOQ = limit of quantitation
ng/kg = nanograms per kilogram
MRL = Method Reporting Limit
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB01-004*			CA129-SB01-009*			CA129-SB01-015		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All nondetect			--	--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	4.50E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	6.70E-03	1.10E-02	J	4.80E-03	1.10E-02	J
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	5.10E-03	1.10E-02	J	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	<	1.10E-02	U	5.60E-03	1.10E-02	J	3.30E-03	1.10E-02	J
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	<	1.10E-02	U	3.10E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	7.70E-03	1.10E-02	J	3.00E-03	1.10E-02	J
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	5.20E-03	1.10E-02	J	<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	<	1.10E-02	U	4.20E-03	1.10E-02	J	<	1.10E-02	U
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	<	1.10E-02	U	6.80E-03	1.10E-02	J	<	1.10E-02	U
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)													
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	<	4.20E-03	U	<	4.30E-03	U	<	4.30E-03	U
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	1.70E-03	4.20E-03	J	2.00E-03	4.30E-03	J	2.40E-03	4.30E-03	J
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	<	1.10E+01	U	7.40E+00	1.10E+01	J	3.00E+00	1.10E+01	J
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	8.90E+00	2.10E+01	J	6.80E+00	2.10E+01	J	<	2.20E+01	U

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB01-004*			CA129-SB01-009*			CA129-SB01-015		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)													
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	3.83E+00	4.91E-01		3.19E+00	5.27E-01		2.46E+00	5.32E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	1.03E+02	4.91E-01		3.00E+02	5.27E-01		5.45E+02	5.32E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	2.66E-01	4.91E-01	J	2.58E-01	5.27E-01	J	2.13E-01	5.32E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	1.37E+01	4.91E-01		8.10E+00	5.27E-01		6.73E+00	5.32E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	8.18E+00	4.91E-01		5.08E+00	5.27E-01		3.96E+00	5.32E-01	
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	<	1.06E-01	U	<	1.06E-01	U	<	1.08E-01	U
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	1.45E-01	4.91E-01	J	<	5.27E-01	U	<	5.32E-01	U
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	5.51E-02	4.91E-01	J	<	5.27E-01	U	<	5.32E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB01-018			CA129-SB02-005*			CA129-SB02-010*		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	1.20E-02	U	<	1.00E-02	U	<	1.20E-02	U
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All nondetect			--	--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	6.40E-03	1.10E-02	J
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	4.60E-03	1.10E-02	J	7.30E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	6.80E-03	1.10E-02	J	1.10E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	5.90E-03	1.10E-02	J	1.20E-02	1.10E-02		<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	6.20E-03	1.10E-02	J	1.70E-02	1.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	<	1.10E-02	U	3.50E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	3.20E-03	1.10E-02	J	5.10E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	8.80E-03	1.10E-02	J	1.10E-02	1.10E-02		<	1.10E-02	U
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	5.10E-03	1.10E-02	J	1.10E-02	1.10E-02		<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	UJ	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	4.90E-03	1.10E-02	J	4.30E-03	1.10E-02	J	<	1.10E-02	U
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	7.20E-03	1.10E-02	J	1.10E-02	1.10E-02		<	1.10E-02	U
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)													
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	<	4.30E-03	U	7.50E-03	4.30E-03		<	4.30E-03	U
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	3.90E-03	4.30E-03	J	**3.70E-02**	4.30E-03		<	4.30E-03	U
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	1.20E+01	1.10E+01		2.90E+00	1.10E+01	J	<	1.10E+01	U
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	1.50E+01	2.10E+01	J	3.50E+01	2.10E+01		<	2.20E+01	U

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB01-018			CA129-SB02-005*			CA129-SB02-010*		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)													
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	2.63E+00	5.07E-01		**4.11E+00**	5.04E-01		2.70E+00	5.35E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	3.41E+02	5.07E-01		1.14E+02	5.04E-01	J	**5.45E+02**	5.35E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	3.10E-01	5.07E-01	J	2.86E-01	5.04E-01	J	2.86E-01	5.35E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	9.50E+00	5.07E-01		1.34E+01	5.04E-01		6.61E+00	5.35E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	6.15E+00	5.07E-01		9.24E+00	5.04E-01	J	4.96E+00	5.35E-01	
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	<	1.06E-01	U	<	1.07E-01	U	<	1.06E-01	U
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	<	5.07E-01	U	1.39E-01	5.04E-01	J	<	5.35E-01	U
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	<	5.07E-01	U	5.28E-02	5.04E-01	J	<	5.35E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB02-015			CA129-SB02-020			CA129-SB03-005*		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	1.10E-02	U	<	1.20E-02	U	<	1.40E-02	U
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All nondetect			--	--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	<	1.10E-02	U	5.30E-03	1.10E-02	J	1.20E-02	2.10E-02	J
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	1.60E-02	2.10E-02	J
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	6.80E-03	2.10E-02	J
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	2.70E-02	2.10E-02	
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	3.30E-03	1.10E-02	J	<	1.10E-02	U	9.60E-02	2.10E-02	
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	6.40E-03	1.10E-02	J	5.60E-03	1.10E-02	J	1.10E-01	2.10E-02	
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	5.10E-03	1.10E-02	J	3.60E-03	1.10E-02	J	1.70E-01	2.10E-02	
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	3.80E-03	1.10E-02	J	4.90E-03	1.10E-02	J	7.30E-02	2.10E-02	
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	4.40E-02	2.10E-02	
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	3.00E-03	1.10E-02	J	<	1.10E-02	U	1.00E-01	2.10E-02	
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	2.10E-02	J
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	8.20E-03	1.10E-02	J	3.80E-03	1.10E-02	J	2.60E-01	2.10E-02	
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	2.10E-02	J
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	5.90E-03	1.10E-02	J	<	1.10E-02	U	5.50E-02	2.10E-02	
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	2.20E-02	2.10E-02	
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	5.50E-03	1.10E-02	J	<	1.10E-02	U	1.80E-01	2.10E-02	
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	6.90E-03	1.10E-02	J	4.10E-03	1.10E-02	J	2.20E-01	2.10E-02	
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)													
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	1.40E-03	4.30E-03	J	1.80E-03	4.30E-03	J	<	4.20E-03	U
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	6.60E-03	4.30E-03		8.30E-03	4.30E-03		6.70E-03	4.20E-03	
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	<	1.10E+01	U	3.20E+00	1.10E+01	J	2.30E+01	1.10E+01	
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	7.30E+00	2.20E+01	J	2.60E+01	2.20E+01		1.90E+02	2.10E+01	

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB02-015			CA129-SB02-020			CA129-SB03-005*		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)													
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	2.83E+00	5.37E-01		2.69E+00	5.05E-01		**4.02E+00**	4.97E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	3.62E+02	5.37E-01		2.84E+02	5.05E-01		1.37E+02	4.97E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	2.77E-01	5.37E-01	J	3.16E-01	5.05E-01	J	2.65E-01	4.97E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	7.26E+00	5.37E-01		8.15E+00	5.05E-01		1.16E+01	4.97E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	5.26E+00	5.37E-01		5.95E+00	5.05E-01		1.03E+01	4.97E-01	J
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	<	1.08E-01	U	<	1.07E-01	U	<	1.05E-01	U
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	<	5.37E-01	U	<	5.05E-01	U	1.31E-01	4.97E-01	J
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	<	5.37E-01	U	<	5.05E-01	U	<	4.97E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB03-010*			CA129-SB03-015			CA129-SB03-020		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	5.40E-03	U	2.20E-03	5.40E-03	J	<	6.00E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All nondetect			--	--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	3.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	6.10E-03	1.10E-02	J	<	1.10E-02	U	5.20E-03	1.10E-02	J
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	4.80E-03	1.10E-02	J	3.50E-03	1.10E-02	J	3.10E-03	1.10E-02	J
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	4.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	6.80E-03	1.10E-02	J	<	1.10E-02	U	3.80E-03	1.10E-02	J
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	4.80E-03	1.10E-02	J	<	1.10E-02	U	4.80E-03	1.10E-02	J
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	5.20E-03	1.10E-02	J	<	1.10E-02	U	3.40E-03	1.10E-02	J
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)													
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	3.50E+01	2.10E+01		9.60E+00	2.10E+01	J	6.60E+00	2.20E+01	J

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB03-010*			CA129-SB03-015			CA129-SB03-020		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)													
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	2.91E+00	5.32E-01		2.65E+00	5.33E-01		2.23E+00	4.94E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	2.81E+02	5.32E-01		2.98E+02	5.33E-01		1.68E+02	4.94E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	2.33E-01	5.32E-01	J	2.77E-01	5.33E-01	J	3.30E-01	4.94E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	6.32E+00	5.32E-01		7.71E+00	5.33E-01		7.49E+00	4.94E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	4.62E+00	5.32E-01		5.55E+00	5.33E-01		6.00E+00	4.94E-01	
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	<	1.06E-01	U	<	1.05E-01	U	<	1.07E-01	U
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	<	5.32E-01	U	<	5.33E-01	U	<	4.94E-01	U
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	<	5.32E-01	U	<	5.33E-01	U	<	4.94E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB03-025			CA129-SB04-005*			CA129-SB04-009*		
DATE COLLECTED					January 25, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	1.20E-02	U	<	1.30E-02	U	<	1.20E-02	U
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All nondetect			--	--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	1.10E-02	U	2.80E-03	1.10E-02	J	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	1.10E-02	U	8.20E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	3.00E-02	1.10E-02		<	1.10E-02	U
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	4.70E-03	1.10E-02	J	5.00E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	7.20E-02	1.10E-02		<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	<	1.10E-02	U	6.70E-02	1.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	<	1.10E-02	U	2.20E-02	1.10E-02		<	1.10E-02	U
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	<	1.10E-02	U	3.20E-02	1.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	1.10E-02	1.10E-02	J	<	1.10E-02	U
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	3.20E-03	1.10E-02	J	8.50E-02	1.10E-02		<	1.10E-02	U
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	3.30E-02	1.10E-02		<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	<	1.10E-02	U	4.20E-02	1.10E-02		<	1.10E-02	U
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	<	1.10E-02	U	6.20E-02	1.10E-02		<	1.10E-02	U
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)													
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	<	4.40E-03	U	<	4.30E-03	U	<	4.20E-03	U
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	<	4.40E-03	U	2.30E-03	4.30E-03	J	<	4.20E-03	U
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	<	1.10E+01	U	2.00E+02	1.10E+01		<	1.10E+01	U
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	<	2.20E+01	U	**1.20E+03**	2.10E+01		6.80E+00	2.10E+01	J

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB03-025			CA129-SB04-005*			CA129-SB04-009*		
DATE COLLECTED					January 25, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)													
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	1.74E+00	5.26E-01		**4.34E+00**	5.16E-01		3.40E+00	5.24E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	4.95E+02	5.26E-01		1.16E+02	5.16E-01		**7.07E+02**	5.24E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	2.52E-01	5.26E-01	J	2.90E-01	5.16E-01	J	2.58E-01	5.24E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	1.02E+01	5.26E-01		1.45E+01	5.16E-01		7.06E+00	5.24E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	4.16E+00	5.26E-01		1.01E+01	5.16E-01		4.57E+00	5.24E-01	
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	<	1.09E-01	U	1.24E-02	1.06E-01	J	<	1.05E-01	U
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	<	5.26E-01	U	1.08E-01	5.16E-01	J	6.34E-02	5.24E-01	J
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	<	5.26E-01	U	<	5.16E-01	U	<	5.24E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB04-020			CA129-SB05-005*			CA129-SB05-010*		
DATE COLLECTED					January 24, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All nondetect			--	--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	3.10E-03	1.10E-02	J
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	1.10E-02	U	8.10E-03	1.10E-02	J	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	1.10E-02	U	2.50E-02	1.10E-02		<	1.10E-02	U
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	7.90E-03	1.10E-02	J	1.50E-01	1.10E-02	J	3.70E-03	1.10E-02	J
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	1.30E-02	1.10E-02		**1.80E-01**	1.10E-02	J	8.20E-03	1.10E-02	J
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	1.70E-02	1.10E-02		2.70E-01	1.10E-02	J	8.40E-03	1.10E-02	J
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	1.20E-02	1.10E-02		1.10E-01	1.10E-02		4.50E-03	1.10E-02	J
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	4.90E-03	1.10E-02	J	8.00E-02	1.10E-02		2.80E-03	1.10E-02	J
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	8.10E-03	1.10E-02	J	1.50E-01	1.10E-02	J	4.20E-03	1.10E-02	J
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	2.70E-02	1.10E-02		<	1.10E-02	U
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	1.90E-02	1.10E-02		2.90E-01	1.10E-02	J	9.50E-03	1.10E-02	J
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	6.30E-03	1.10E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	9.40E-03	1.10E-02	J	8.90E-02	1.10E-02		6.30E-03	1.10E-02	J
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	9.30E-03	1.10E-02	J	1.10E-01	1.10E-02		5.20E-03	1.10E-02	J
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	1.70E-02	1.10E-02		2.80E-01	1.10E-02	J	8.50E-03	1.10E-02	J
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)													
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	1.30E+01	1.10E+01		5.70E+00	1.10E+01	J	<	1.10E+01	U
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	1.10E+02	2.20E+01		2.20E+01	2.10E+01		7.70E+00	2.20E+01	J

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB04-020			CA129-SB05-005*			CA129-SB05-010*		
DATE COLLECTED					January 24, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)													
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	2.85E+00	5.30E-01		**3.93E+00**	5.32E-01		3.20E+00	5.23E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	4.48E+02	5.30E-01		1.23E+02	5.32E-01		2.56E+02	5.23E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	3.26E-01	5.30E-01	J	2.91E-01	5.32E-01	J	2.78E-01	5.23E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	9.76E+00	5.30E-01		1.12E+01	5.32E-01		9.73E+00	5.23E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	5.76E+00	5.30E-01		**1.15E+01**	5.32E-01		6.05E+00	5.23E-01	
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	<	1.08E-01	U	<	1.06E-01	U	<	1.07E-01	U
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	5.80E-02	5.30E-01	J	1.32E-01	5.32E-01	J	5.78E-02	5.23E-01	J
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	<	5.30E-01	U	<	5.32E-01	U	<	5.23E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB05-015			CA129-SB05-020			CA129-SB06-003*		
DATE COLLECTED					January 24, 2013			January 24, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	1.00E-02	U	<	1.20E-02	U	<	1.10E-02	U
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All nondetect			--	--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	2.70E-03	1.10E-02	J	<	1.10E-02	U	<	2.10E-02	U
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	1.10E-02	2.10E-02	J
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	2.10E-02	U
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	2.10E-02	J
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	3.20E-03	1.10E-02	J	9.40E-02	2.10E-02	
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	6.00E-03	1.10E-02	J	1.20E-01	2.10E-02	
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	4.90E-03	1.10E-02	J	1.70E-01	2.10E-02	
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	<	1.10E-02	U	3.10E-03	1.10E-02	J	7.40E-02	2.10E-02	
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	<	1.10E-02	U	2.90E-03	1.10E-02	J	5.50E-02	2.10E-02	
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	<	1.10E-02	U	3.40E-03	1.10E-02	J	9.80E-02	2.10E-02	
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	5.20E-03	1.10E-02	J	2.00E-02	2.10E-02	J
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	4.20E-03	1.10E-02	J	2.20E-01	2.10E-02	
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	8.80E-03	2.10E-02	J
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	5.40E-03	1.10E-02	J	6.00E-02	2.10E-02	
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	2.90E-03	1.10E-02	J	<	1.10E-02	U	<	2.10E-02	U
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	<	1.10E-02	U	3.30E-03	1.10E-02	J	1.10E-01	2.10E-02	
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	<	1.10E-02	U	4.20E-03	1.10E-02	J	1.90E-01	2.10E-02	
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)													
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	<	4.30E-03	U	<	4.40E-03	U	3.80E-03	4.20E-03	J
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	<	4.30E-03	U	<	4.40E-03	U	1.40E-02	4.20E-03	
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	5.90E+00	1.10E+01	J
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	<	2.10E+01	U	<	2.20E+01	U	5.40E+01	2.10E+01	

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB05-015			CA129-SB05-020			CA129-SB06-003*		
DATE COLLECTED					January 24, 2013			January 24, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)													
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	1.88E+00	5.13E-01		2.16E+00	5.35E-01		**4.12E+00**	5.01E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	3.79E+02	5.13E-01		4.62E+02	5.35E-01		2.22E+02	5.01E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	1.64E-01	5.13E-01	J	2.44E-01	5.35E-01	J	2.96E-01	5.01E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	6.62E+00	5.13E-01		8.05E+00	5.35E-01		1.24E+01	5.01E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	4.52E+00	5.13E-01		6.25E+00	5.35E-01		**1.17E+01**	5.01E-01	
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	1.10E-02	1.05E-01	J	<	1.09E-01	U	**1.56E-02**	1.05E-01	J
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	<	5.13E-01	U	<	5.35E-01	U	9.23E-02	5.01E-01	J
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	<	5.13E-01	U	<	5.35E-01	U	<	5.01E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB06-010*			CA129-SB06-015			CA129-SB06-020		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All nondetect			--	--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	3.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	6.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	5.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	2.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	3.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	9.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	4.60E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	5.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	7.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)													
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	<	4.30E-03	U	<	4.40E-03	U	<	4.40E-03	U
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	<	4.30E-03	U	<	4.40E-03	U	<	4.40E-03	U
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	1.20E+01	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB06-010*			CA129-SB06-015			CA129-SB06-020		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)													
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	3.18E+00	5.33E-01		2.55E+00	5.53E-01		3.19E+00	5.20E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	**4.43E+02**	5.33E-01		4.82E+02	5.53E-01		5.30E+02	5.20E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	2.23E-01	5.33E-01	J	2.16E-01	5.53E-01	J	3.97E-01	5.20E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	6.21E+00	5.33E-01		6.22E+00	5.53E-01		1.08E+01	5.20E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	4.29E+00	5.33E-01		3.71E+00	5.53E-01		6.85E+00	5.20E-01	
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	<	1.08E-01	U	<	1.09E-01	U	<	1.10E-01	U
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	6.66E-02	5.33E-01	J	<	5.53E-01	U	7.11E-02	5.20E-01	J
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	<	5.33E-01	U	<	5.53E-01	U	<	5.20E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB07-005*			CA129-SB07-010*			CA129-SB07-015		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	9.90E-03	U	<	1.10E-02	U	2.70E-03	1.20E-02	J
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All nondetect			--	--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	<	2.20E-02	U	7.70E-03	1.10E-02	J	1.00E-02	1.10E-02	J
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	2.00E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	2.70E-02	2.20E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	3.10E-02	2.20E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	1.50E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	8.40E-03	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	1.80E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	4.20E-02	2.20E-02		<	1.10E-02	U	<	1.10E-02	U
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	1.60E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	<	2.20E-02	U	<	1.10E-02	U	4.10E-03	1.10E-02	J
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	2.20E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	3.70E-02	2.20E-02		<	1.10E-02	U	<	1.10E-02	U
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)													
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	<	4.40E-03	U	<	4.50E-03	U	<	4.40E-03	U
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	2.60E-03	4.40E-03	J	<	4.50E-03	U	<	4.40E-03	U
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	9.80E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	2.50E+01	2.20E+01		<	2.30E+01	U	<	2.20E+01	U

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB07-005*			CA129-SB07-010*			CA129-SB07-015		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)													
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	**4.05E+00**	5.46E-01		3.09E+00	5.64E-01		2.24E+00	5.26E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	1.24E+02	5.46E-01		**3.91E+02**	5.64E-01		5.87E+02	5.26E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	2.62E-01	5.46E-01	J	3.52E-01	5.64E-01	J	2.53E-01	5.26E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	1.24E+01	5.46E-01		6.85E+00	5.64E-01		5.94E+00	5.26E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	**1.24E+01**	5.46E-01		5.52E+00	5.64E-01		4.30E+00	5.26E-01	
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	<	1.09E-01	U	<	1.11E-01	U	<	1.09E-01	U
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	1.46E-01	5.46E-01	J	<	5.64E-01	U	<	5.26E-01	U
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	<	5.46E-01	U	<	5.64E-01	U	<	5.26E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health		CA129-SB07-020			CA129-SB08-004*			CA129-SB08-010*		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	Ecological PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All nondetect			--	--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	4.90E-03	1.10E-02	J	<	1.10E-02	U	2.80E-03	1.10E-02	J
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	1.10E-02	U	7.50E-03	1.10E-02	J	2.50E-02	1.10E-02	
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	1.10E-02	U	7.70E-03	1.10E-02	J	5.20E-03	1.10E-02	J
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	1.10E-02	U	8.10E-03	1.10E-02	J	1.90E-02	1.10E-02	
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	2.70E-02	1.10E-02		6.30E-02	1.10E-02	
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	2.90E-02	1.10E-02		7.60E-02	1.10E-02	
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	4.40E-02	1.10E-02		1.20E-01	1.10E-02	
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	<	1.10E-02	U	1.40E-02	1.10E-02		4.90E-02	1.10E-02	
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	<	1.10E-02	U	1.50E-02	1.10E-02		3.50E-02	1.10E-02	
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	<	1.10E-02	U	3.50E-02	1.10E-02		7.60E-02	1.10E-02	
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	7.20E-03	1.10E-02	J	1.20E-02	1.10E-02	
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	1.00E-01	1.10E-02		2.60E-01	1.10E-02	
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	1.00E-02	1.10E-02	J	2.20E-02	1.10E-02	
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	<	1.10E-02	U	1.50E-02	1.10E-02		4.10E-02	1.10E-02	
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	3.50E-03	1.10E-02	J
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	<	1.10E-02	U	1.00E-01	1.10E-02		2.00E-01	1.10E-02	
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	<	1.10E-02	U	8.00E-02	1.10E-02		1.90E-01	1.10E-02	
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)													
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	<	4.40E-03	U	<	4.40E-03	U	<	4.40E-03	U
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	<	4.40E-03	U	<	4.40E-03	U	<	4.40E-03	U
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	<	2.20E+01	U	9.30E+00	2.20E+01	J	5.70E+00	2.20E+01	J

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB07-020			CA129-SB08-004*			CA129-SB08-010*		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)													
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	2.43E+00	5.47E-01		**4.16E+00**	5.28E-01		3.16E+00	5.18E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	2.64E+02	5.47E-01	J	1.16E+02	5.28E-01		**3.88E+02**	5.18E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	2.60E-01	5.47E-01	J	3.08E-01	5.28E-01	J	2.75E-01	5.18E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	6.37E+00	5.47E-01		1.32E+01	5.28E-01		8.28E+00	5.18E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	4.76E+00	5.47E-01		8.38E+00	5.28E-01		5.02E+00	5.18E-01	
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	<	1.09E-01	U	<	1.11E-01	U	<	1.10E-01	U
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	<	5.47E-01	U	1.09E-01	5.28E-01	J	<	5.18E-01	U
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	<	5.47E-01	U	<	5.28E-01	U	<	5.18E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB08-015			CA129-SB08-020			CA129-SB09-004*		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)													
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)													
All nondetect			--	--									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)													
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	6.40E-03	1.10E-02	J	<	1.10E-02	U	8.50E-03	1.10E-02	J
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	9.50E-03	1.10E-02	J	4.50E-03	1.10E-02	J	1.20E-02	1.10E-02	
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	1.10E-02	1.10E-02		<	1.10E-02	U	1.50E-02	1.10E-02	
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	4.50E-03	1.10E-02	J	<	1.10E-02	U	7.10E-03	1.10E-02	J
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	2.90E-03	1.10E-02	J	<	1.10E-02	U	4.40E-03	1.10E-02	J
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	5.60E-03	1.10E-02	J	<	1.10E-02	U	7.10E-03	1.10E-02	J
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	1.50E-02	1.10E-02		3.10E-03	1.10E-02	J	1.80E-02	1.10E-02	
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	6.30E-03	1.10E-02	J	<	1.10E-02	U	8.10E-03	1.10E-02	J
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	8.10E-03	1.10E-02	J	<	1.10E-02	U	8.40E-03	1.10E-02	J
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	1.30E-02	1.10E-02		<	1.10E-02	U	1.60E-02	1.10E-02	
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)													
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	<	4.40E-03	U	<	4.40E-03	U	<	4.30E-03	U
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	<	4.40E-03	U	<	4.40E-03	U	<	4.30E-03	U
PETROLEUM HYDROCARBONS (mg/kg)													
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	<	2.20E+01	U	<	2.20E+01	U	1.50E+01	2.10E+01	J

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health	Ecological	CA129-SB08-015			CA129-SB08-020			CA129-SB09-004*		
DATE COLLECTED					January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)													
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	2.07E+00	5.18E-01		2.17E+00	5.45E-01		**4.32E+00**	5.06E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	1.37E+02	5.18E-01		3.37E+02	5.45E-01	J	1.23E+02	5.06E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	2.45E-01	5.18E-01	J	2.89E-01	5.45E-01	J	3.05E-01	5.06E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	7.44E+00	5.18E-01		7.69E+00	5.45E-01		1.54E+01	5.06E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	4.81E+00	5.18E-01		5.79E+00	5.45E-01		1.05E+01	5.06E-01	
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	<	1.08E-01	U	<	1.08E-01	U	<	1.07E-01	U
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	<	5.18E-01	U	<	5.45E-01	U	1.40E-01	5.06E-01	J
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	<	5.18E-01	U	<	5.45E-01	U	<	5.06E-01	U

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			Residential Human Health		CA129-SB10-003*		
DATE COLLECTED				Ecological	January 25, 2013		
	Maximum	Frequency	PAL	PAL	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)							
Bromomethane	2.70E-03	1 / 34	1.65E+01	2.35E-01	<	1.10E-02	U
Ethylbenzene	2.20E-03	1 / 34	6.84E+01	5.16E+00	<	5.70E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)							
All nondetect			--	--			
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)							
2-Methylnaphthalene	1.20E-02	9 / 34	3.10E+02	2.90E+01	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	3.44E+03	2.90E+01	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	-	2.90E+01	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	1.72E+04	2.90E+01	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01 J	18 / 34	1.48E+00	1.10E+00	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01 J	24 / 34	1.48E-01	1.10E+00	4.60E-03	1.10E-02	J
Benzo(b)fluoranthene	2.70E-01 J	21 / 34	1.48E+00	1.10E+00	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	-	1.10E+00	<	1.10E-02	U
Benzo(k)fluoranthene	8.00E-02	13 / 34	1.48E+01	1.10E+00	<	1.10E-02	U
Chrysene	1.50E-01 J	17 / 34	1.48E+02	1.10E+00	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	1.48E-01	1.10E+00	<	1.10E-02	U
Fluoranthene	2.90E-01 J	24 / 34	2.29E+03	2.90E+01	3.60E-03	1.10E-02	J
Fluorene	2.20E-02	5 / 34	2.29E+03	2.90E+01	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.48E+00	1.10E+00	<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	4.30E+01	2.90E+01	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	1.83E+03	2.90E+01	<	1.10E-02	U
Pyrene	2.80E-01 J	20 / 34	1.72E+03	1.10E+00	<	1.10E-02	U
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)							
4,4-DDE	7.50E-03	5 / 34	1.43E+01	2.10E-02	2.60E-03	4.30E-03	J
4,4-DDT	3.70E-02	12 / 34	1.72E+01	2.10E-02	7.50E-03	4.30E-03	
PETROLEUM HYDROCARBONS (mg/kg)							
Diesel Range Organics	2.00E+02	11 / 34	1.00E+03	--	<	1.10E+01	U
Oil Range Organics	1.20E+03	22 / 34	1.00E+03	--	1.40E+01	2.10E+01	J

TABLE 5-8
SUMMARY OF ANALYTICAL DATA SCREENING RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID DATE COLLECTED	Maximum	Frequency	Residential Human Health PAL	Ecological PAL	CA129-SB10-003* January 25, 2013 Result	LOQ	Qual
METALS (mg/kg)							
Arsenic	4.34E+00	34 / 34	3.90E+00	1.80E+01	**4.17E+00**	5.27E-01	
Barium	7.07E+02	34 / 34	1.56E+04	3.30E+02	9.91E+01	5.27E-01	
Cadmium	3.97E-01	34 / 34	7.03E+01	3.60E-01	2.87E-01	5.27E-01	J
Chromium	1.54E+01	34 / 34	1.17E+05	2.60E+01	1.53E+01	5.27E-01	
Lead	1.24E+01	34 / 34	4.00E+02	1.10E+01	8.81E+00	5.27E-01	
Mercury	1.56E-02	3 / 34	1.56E+01	1.30E-02	<	1.06E-01	U
Selenium	1.95E-01	15 / 34	3.91E+02	5.20E-01	1.95E-01	5.27E-01	J
Silver	5.57E-02	3 / 34	3.91E+02	4.20E+00	5.57E-02	5.27E-01	J

Notes:

BOLD Result exceeds Residential Human Health PAL.

BOLD Result exceeds Ecological PAL.

BOLD Result exceeds both Residential Human Health and Ecological PALs.

*Sample collected in area considered ecological habitat from 0-10 feet bgs.

bgs = below ground surface
DDE = Diclorodiphenlydichloroethylene
DDT = Dichlorodiphenyltrichloroethane
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
PAL = Project Action Limit
Qual = qualifier
U = nondetect

TABLE 5-9
SUMMARY OF ECOLOGICAL EXCLUSION CRITERIA CHECKLIST
EIGHT-SITE SITE INVESTIGATION

Site	Description	Sensitive Environments		Terrestrial Habitats						Receptors			Exposure Pathways			Chemical				Eligible for Exclusion
		Terrestrial	Aquatic	Wooded	Shrub/Scrub	Open Fields/Prairie	Other Grassy Areas	Desert Areas	All Other	Protected Species	Commercial Species	All Other	Direct Contact	Via Groundwater	Via Surface Runoff, Wind Erosion	Present in Surface Soil	Able to Leach to GW	Eroded to downgradient	NAPL present	
C501	Former AGE Dispatch Facility Spills Site (SS-C501) - Site is approximately 450 feet by 120 feet (1.2 acres). Entirely paved. Deisel spills may have seeped through cracks in asphalt; however, site re-paved in 2009. No complete exposure.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	N	YES
C502	Former Gas Station Site (ST-C502) - Site is 145 feet by 165 feet (0.5 acre). Primarily paved. Source areas were 3 USTs removed in 1995 and former pump island areas.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	N	YES
C503	Base Support/Operations Generator Former UST Site (ST-C503) - Site is 22 feet by 25 feet (0.01 acre). Source area was a 500-gallon diesel UST was removed in 1994.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	N	YES
C504	Hospital Abandoned UST Site (ST-C504) - Site is 95 feet by 60 feet (0.13 acre). Base of cooling tower built over abandoned UST. Primarily paved. Soure area was 25,000-gallon diesel UST abandonded in 1994.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	N	YES
C505	Flightline Generator UST Site (ST-C505) - Site is 22 feet by 23 feet (0.01 acre). Source area was two 500-gallon USTs removed in January 1995.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	N	YES
C507	Former POL Refueling Area Site (SS-C507) - Site is approximately 5.5 acres. Closed in June/July 2009 and has remained inactive. Historical site activities included delivery and dispensing of fuels. Concrete roads and foundations, crushed rock, some grassy areas, other unpaved is compacted earth.	N	N	N	N	N	Y	N	Y	N	N	Y	Y	N	Y	Y	Y	Y	N	NO
C508	Surface Disposal Area (SD-C508) - Site is approximately 1 acre. Disposal debris evident on surface. Sparsely covered with grasses.	N	N	N	N	Y	Y	N	N	N	N	Y	Y	N	Y	Y	Y	Y	N	NO

TABLE 5-9
SUMMARY OF ECOLOGICAL EXCLUSION CRITERIA CHECKLIST
EIGHT-SITE SITE INVESTIGATION

Site	Description	Sensitive Environments		Terrestrial Habitats						Receptors			Exposure Pathways			Chemical				Eligible for Exclusion
		Terrestrial	Aquatic	Wooded	Shrub/Scrub	Open Fields/Prairie	Other Grassy Areas	Desert Areas	All Other	Protected Species	Commercial Species	All Other	Direct Contact	Via Groundwater	Via Surface Runoff, Wind Erosion	Present in Surface Soil	Able to Leach to GW	Eroded to downgradient	NAPL present	
C129	Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) - The leach field is 40 feet by 50 feet (0.5 acre). Underground pipes received water from OWS. Sparsely covered with grasses.	N	N	N	N	Y	Y	N	N	N	N	Y	Y	N	Y	Y	Y	Y	N	NO

Notes:
AST = aboveground storage tank
bgs = below ground surface
DRO = diesel range organics
GW = groundwater
OWS = oil/water separator
TPH = total petroleum hydrocarbon
UST = underground storage tank

TABLE 5-10
SUMMARY OF ANALYTICAL RESULTS AND ECOLOGICAL SCREENING SOIL 0-10 FEET
FORMER POL YARD REFUELING AREA SITE (SS-C507)

	Frequency	Maximum	Ecological PAL	Max-based SLHQ	COPEC? Y/N	Rationale
LEAD (mg/kg)						
Lead (mg/kg)	132 / 132	3.00E+02	1.10E+01	**27**	**Yes**	b
PETROLEUM COMPOUNDS (mg/kg)						
Diesel Range Organics	34 / 132	6.70E+01	NA	--	Unc	d
Gasoline Range Organics	5 / 132	2.10E+00	NA	--	Unc	d
Oil Range Organics	8 / 132	3.00E+02	NA	--	Unc	d
VOLATILE ORGANIC COMPOUNDS (mg/kg)						
m,p-Xylene (sum of isomers)	6 / 132	1.20E-02	1.00E+01	0.0	No	a
Naphthalene	1 / 132	1.00E-02	2.90E+01	0.0	No	a
o-Xylene (1,2-Dimethylbenzene)	2 / 132	1.90E-02	1.00E+01	0.0	No	a
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)						
Low Molecular Weight PAHs						
2-Methylnaphthalene	13 / 132	3.70E-02	2.90E+01	0.0	No	a
High Molecular Weight PAHs						
Benzo(a)anthracene	63 / 132	3.10E+00	1.10E+00	**2.8**	**Yes**	b
Benzo(a)pyrene	69 / 132	3.30E+00	1.10E+00	**3.0**	**Yes**	b
Benzo(b)fluoranthene	73 / 132	5.60E+00	1.10E+00	**5.1**	**Yes**	b
Benzo(k)fluoranthene	56 / 132	1.90E+00	1.10E+00	**1.7**	**Yes**	b
Chrysene	62 / 132	4.20E+00	1.10E+00	**3.8**	**Yes**	b
Dibenz(a,h)anthracene	50 / 132	4.60E-01	1.10E+00	0.4	**Yes**	c
Indeno(1,2,3-cd)pyrene	70 / 132	1.60E+00	1.10E+00	**1.5**	**Yes**	b
Total		2.02E+01	1.10E+00	**18**	**Yes**	b
POLYCHLORINATED BIPHENYLS (mg/kg)						
PCB-1260	36 / 132	4.50E+00	1.40E-01	**32**	**Yes**	b

Notes:

-- = could not be calculated
COPEC = chemical of potential ecological concern
mg/kg = milligrams per kilogram
NA = not available
PAH = polynuclear aromatic hydrocarbon
PAL = Project Action Level
PCB = polychlorinated biphenyls
SLHQ = Screening-Level Hazard Quotient

0.0 indicates that the SLHQ is <0.05
a - Maximum concentration is less than the PAL.
b - Maximum concetration exceeds the PAL.
c - For high molecular weight PAHs, if one individual PAH exceeded the PAL, all high molecular weight PAHs were identified as COPECs.
d - Uncertain because PAL is unavailable.

TABLE 5-11
SUMMARY OF ANALYTICAL RESULTS AND ECOLOGICAL SCREENING SOIL 0-10 FEET
SURFACE DISPOSAL AREA (SD-C508)

	Frequency	Maximum	Background UTL* (Metals only)	Ecological PAL	Max-based SLHQ	COPEC? Y/N	Rationale
VOLATILE ORGANIC COMPOUNDS (mg/kg)							
m,p-Xylene (sum of isomers)	2 / 27	5.10E-03		1.00E+01	0.0	No	a
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)							
Carbazole	1 / 27	6.00E-01		NA	--	Unc	d
Dibenzofuran	1 / 27	4.70E-01		NA	--	Unc	d
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)							
Low Molecular Weight PAHs							
2-Methylnaphthalene	3 / 27	1.70E-01		2.90E+01	0.01	No	a
Acenaphthene	4 / 27	7.80E-01		2.90E+01	0.03	No	a
Acenaphthylene	3 / 27	3.40E-02		2.90E+01	0.00	No	a
Anthracene	5 / 27	7.80E-01		2.90E+01	0.03	No	a
Fluoranthene	15 / 27	3.50E-01		2.90E+01	0.01	No	a
Fluorene	4 / 27	5.00E-01		2.90E+01	0.02	No	a
Naphthalene	3 / 27	3.40E-01		2.90E+01	0.01	No	a
Phenanthrene	9 / 27	2.20E-01		2.90E+01	0.01	No	a
Total				2.90E+01	0.11	No	a
High Molecular Weight PAHs							
Benzo(a)anthracene	14 / 27	1.80E+00		1.10E+00	**1.6**	**Yes**	b
Benzo(a)pyrene	14 / 27	2.00E+00		1.10E+00	**1.8**	**Yes**	b
Benzo(b)fluoranthene	14 / 27	2.50E+00		1.10E+00	**2.3**	**Yes**	b
Benzo(g,h,i)perylene	13 / 27	1.10E+00		1.10E+00	**1.0**	**Yes**	b
Benzo(k)fluoranthene	11 / 27	8.70E-01		1.10E+00	0.8	**Yes**	c
Chrysene	11 / 27	2.40E+00		1.10E+00	**2.2**	**Yes**	b
Dibenz(a,h)anthracene	5 / 27	2.50E-01		1.10E+00	0.2	**Yes**	c
Indeno(1,2,3-cd)pyrene	12 / 27	1.00E+00		1.10E+00	0.9	**Yes**	c
Pyrene	12 / 27	3.00E-01		1.10E+00	0.3	**Yes**	c
Total				1.10E+00	**11**	**Yes**	b

TABLE 5-11
SUMMARY OF ANALYTICAL RESULTS AND ECOLOGICAL SCREENING SOIL 0-10 FEET
SURFACE DISPOSAL AREA (SD-C508)

	Frequency	Maximum	Background UTL* (Metals only)	Ecological PAL	Max-based SLHQ	COPEC? Y/N	Rationale
PESTICIDES (ORGANOCHLORINE) (mg/kg)							
4,4-DDE	3 / 27	4.80E-03		2.10E-02	0.2	No	a
4,4-DDT	8 / 27	1.20E-02		2.10E-02	0.6	No	a
alpha-Chlordane	1 / 27	3.40E-03		2.70E-01	0.0	No	a
Dieldrin	3 / 27	8.10E-03		4.90E-03	**1.7**	**Yes**	a
gamma-Chlordane	1 / 27	1.90E-03		2.20E+00	0.0	No	a
Heptachlor epoxide	2 / 27	2.50E-03		5.90E-02	0.0	No	a
PETROLEUM COMPOUNDS (mg/kg)							
Oil Range Organics	16 / 27	1.60E+02		NA	--	Unc	d
DIOXINS/FURANS (ng/kg)							
TCDD-Equivalents[1]	21 / 27	1.31E+01		2.90E-01	**45**	**Yes**	b
METALS (mg/kg)							
Arsenic	27 / 27	5.59E+00	3.60E+00	1.80E+01	0.3	No	a
Barium	27 / 27	8.44E+02	6.70E+02	3.30E+02	**2.6**	**Yes**	b
Cadmium	27 / 27	3.79E+00	4.35E-01	3.60E-01	**10.5**	**Yes**	b
Chromium	27 / 27	1.89E+01	1.05E+01	2.60E+01	0.7	No	a
Lead	27 / 27	3.13E+01	1.20E+01	1.10E+01	**2.8**	**Yes**	b
Mercury	3 / 27	2.71E-02	5.60E-02	1.30E-02	**2.1**	**Yes**	b
Selenium	23 / 27	3.00E-01	2.60E-01	5.00E-01	0.6	No	a
Silver	11 / 27	1.09E+00	4.00E-01	4.20E+00	0.3	No	a

Notes:

* UTL for surface background data selected
-- = could not be calculated
COPEC = chemical of potential ecological concern
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PAH = polynuclear aromatic hydrocarbon
PAL = Project Action Level
SLHQ = Screening-Level Hazard Quotient
TCDD = 2,3,7,8-Tetrachlorodibenzo-p-dioxin
UTL = Upper Tolerance Limit

0.0 indicates that the SLHQ is <0.05
a - Maximum concentration is less than the PAL
b - Maximum concetration exceeds the PAL
c - For high molecular weight PAHs, if the sum of the PAH SLHQs exceeded the PAL, all high molecular weight PAHs were identified as COPECs
d - Uncertain because PAL is unavailable
e - Maximum concentrations is less than the background UTL

[1] World Health Organization's toxicity equivalency factor (TEF) was applied to each congener concentration to get a TCDD-equivalent concentration (TEQ); TEQs were then summed for each sample. The maximum TEQ value is the sum for an individual sample (see text for details).

TABLE 5-12
SUMMARY OF ANALYTICAL RESULTS AND ECOLOGICAL SCREENING SOIL 0-10 FEET
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

	Frequency	Maximum	Background UTL* (Metals only)	Ecological PAL	Max-based SLHQ	COPEC? Y/N	Rationale
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)							
Low Molecular Weight PAHs							
2-Methylnaphthalene	5 / 18	1.20E-02		2.90E+01	0.00	No	a
Acenaphthene	5 / 18	2.50E-02		2.90E+01	0.00	No	a
Acenaphthylene	4 / 18	7.70E-03		2.90E+01	0.00	No	a
Anthracene	6 / 18	2.70E-02		2.90E+01	0.00	No	a
Fluoranthene	11 / 18	2.90E-01		2.90E+01	0.01	No	a
Fluorene	5 / 18	2.20E-02		2.90E+01	0.00	No	a
Naphthalene	2 / 18	2.20E-02		2.90E+01	0.00	No	a
Phenanthrene	12 / 18	2.00E-01		2.90E+01	0.01	No	a
Total				2.90E+01	0.02	No	a
High Molecular Weight PAHs							
Benzo(a)anthracene	13 / 18	1.50E-01		1.10E+00	0.14	**Yes**	a
Benzo(a)pyrene	10 / 18	1.80E-01		1.10E+00	0.16	**Yes**	c
Benzo(b)fluoranthene	13 / 18	2.70E-01		1.10E+00	0.25	**Yes**	c
Benzo(g,h,i)perylene	13 / 18	1.10E-01		1.10E+00	0.10	**Yes**	c
Benzo(k)fluoranthene	10 / 18	8.00E-02		1.10E+00	0.07	**Yes**	c
Chrysene	12 / 18	1.50E-01		1.10E+00	0.14	**Yes**	c
Dibenz(a,h)anthracene	6 / 18	2.70E-02		1.10E+00	0.02	**Yes**	c
Indeno(1,2,3-cd)pyrene	13 / 18	8.90E-02		1.10E+00	0.08	**Yes**	c
Pyrene	13 / 18	2.80E-01		1.10E+00	0.25	**Yes**	c
Total				1.10E+00	**1.2**	**Yes**	b
PESTICIDES/POLYCHLORINATED BIPHENYLS (mg/kg)							
4,4-DDE	3 / 18	7.50E-03		2.10E-02	0.36	No	a
4,4-DDT	8 / 18	3.70E-02		2.10E-02	**1.8**	**Yes**	b
PETROLEUM COMPOUNDS (mg/kg)							
Diesel Range Organics	7 / 18	2.00E+02		NA	--	Unc	d
Oil Range Organics	16 / 18	1.20E+03		NA	--	Unc	d
METALS (mg/kg)							
Arsenic	18 / 18	4.32E+00	3.60E+00	1.80E+01	0.2	No	a
Barium	18 / 18	7.07E+02	6.70E+02	3.30E+02	**2.1**	No	f
Cadmium	18 / 18	3.52E-01	4.35E-01	4.00E-01	0.88	No	a
Chromium	18 / 18	1.54E+01	1.05E+01	2.60E+01	0.59	No	a
Lead	18 / 18	1.24E+01	1.20E+01	1.10E+01	**1.1**	No	e
Mercury	2 / 18	1.56E-02	5.60E-02	1.30E-02	**1.2**	No	e
Selenium	13 / 18	1.95E-01	2.60E-01	5.00E-01	0.39	No	a
Silver	3 / 18	5.57E-02	4.00E-01	4.20E+00	0.01	No	a

Notes:

* UTL for surface background data selected

-- = could not be calculated

% = percent

COPEC = chemical of potential ecological concern

mg/kg = milligrams per kilogram

PAH = polynuclear aromatic hydrocarbon

PAL = Project Action Level

SLHQ = Screening-Level Hazard Quotient

TCDD = 2,3,7,8-Tetrachlorodibenzo-p-dioxin

UTL = Upper Tolerance Limit

0.0 indicates that the SLHQ is <0.05

a - Maximum concentration is less than the PAL

b - Maximum concetration exceeds the PAL

c - For high molecular weight PAHs, if the sum of the PAH SLHQs exceeded the PAL, all high molecular weight PAHs were identified as COPECs

d - Uncertain because PAL is unavailable

e - Maximum concentrations is less than the background UTL

f - Maximum concentrations is only 5% greater than the background UTL

[1] World Health Organization's toxicity equivalency factor (TEF) was applied to each congener concentration to get a TCDD-equivalent concentration (TEQ); TEQs were then summed for each sample. The maximum TEQ value is the sum for an individual sample (see text for details).

TABLE 5-13
SUMMARY OF ANALYTICAL RESULTS AND ECOLOGICAL COPEC REFINEMENT SOIL 0 0-10 FEET
FORMER POL YARD REFUELING AREA SITE (SS-C507)

	Frequency	95% UCL	Ecological PAL	UCL-based SLHQ	COPEC? Y/N	Rationale
LEAD (mg/kg)						
Lead (mg/kg)	132 / 132	4.23E+01	1.10E+01	**3.8**	**Yes**	b
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)						
2-Methylnaphthalene	13 / 132	9.56E-03	1.80E+01	0.0	**Yes**	e
Benzo(a)anthracene	63 / 132	2.74E-01	1.10E+00	0.2	**Yes**	e
Benzo(a)pyrene	69 / 132	3.72E-01	1.10E+00	0.3	**Yes**	e
Benzo(b)fluoranthene	73 / 132	6.22E-01	1.10E+00	0.6	**Yes**	e
Benzo(k)fluoranthene	56 / 132	1.68E-01	1.10E+00	0.2	**Yes**	e
Chrysene	62 / 132	3.55E-01	1.10E+00	0.3	**Yes**	e
Dibenz(a,h)anthracene	50 / 132	3.51E-02	1.10E+00	0.0	**Yes**	e
Indeno(1,2,3-cd)pyrene	70 / 132	2.11E-01	1.10E+00	0.2	**Yes**	e
Total				**1.9**	**Yes**	c
POLYCHLORINATED BIPHENYLS (mg/kg)						
PCB-1260	36 / 132	2.20E-01	1.40E-01	**1.6**	**Yes**	b

Notes:

% = percent
COPEC = chemical of potential ecological concern
mg/kg = milligrams per kilogram
PAH = polynuclear aromatic hydrocarbon
PAL = Project Action Level
PCB = polychlorinated biphenyls
SLHQ = Screening-Level Hazard Quotient
UCL - Upper Confidence Limit

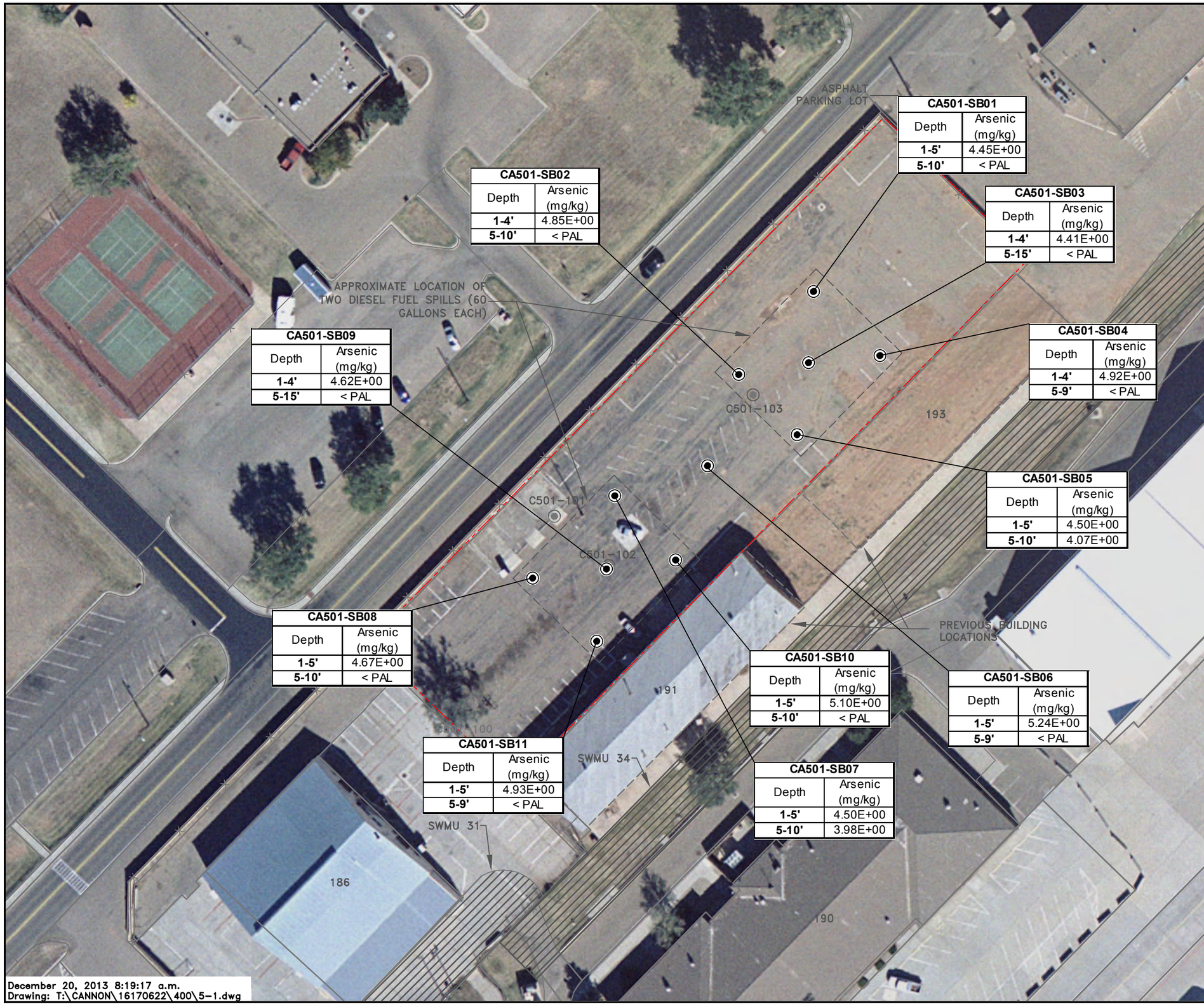
0.0 indicates that the SLHQ is <0.05
a - UCL is less than the PAL.
b - UCL exceeds the PAL.
c - For PAHs, a cumulative hazard quotient is generated for comparison with the PAL.
d - Uncertain because PAL is unavailable.
e - Maximum less than PAL, but included because it co-occurs with other PAH COPECs.

TABLE 5-14
SUMMARY OF ANALYTICAL RESULTS AND ECOLOGICAL COPEC REFINEMENT SOIL 0-10 FEET
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

	Frequency	95% UCL	Ecological PAL	UCL-based SLHQ	COPEC? Y/N	Rationale
PESTICIDES (ORGANOCHLORINE) (mg/kg)						
Dieldrin*	3 / 27	8.10E-03	4.90E-03	**1.7**	**Yes**	b
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)						
High Molecular Weight PAHs						
Benzo(a)anthracene	14 / 27	3.76E-01	1.10E+00	0.34	**Yes**	e
Benzo(a)pyrene	14 / 27	4.21E-01	1.10E+00	0.38	**Yes**	e
Benzo(b)fluoranthene	14 / 27	5.27E-01	1.10E+00	0.48	**Yes**	e
Benzo(g,h,i)perylene	13 / 27	2.35E-01	1.10E+00	0.21	**Yes**	e
Benzo(k)fluoranthene	11 / 27	1.86E-01	1.10E+00	0.17	**Yes**	e
Chrysene	11 / 27	5.04E-01	1.10E+00	0.46	**Yes**	e
Dibenz(a,h)anthracene	5 / 27	3.37E-02	1.10E+00	0.03	**Yes**	e
Indeno(1,2,3-cd)pyrene	13 / 27	2.15E-01	1.10E+00	0.20	**Yes**	e
Pyrene	11 / 27	5.77E-02	1.10E+00	0.05	**Yes**	e
Total			1.10E+00	**2.3**	**Yes**	b
DIOXINS/FURANS (ng/kg)						
TCDD-Equivalents[1]	27 / 27	4.02E+00	2.90E-01	**14**	**Yes**	b
METALS (mg/kg)						
Barium	27 / 27	3.53E+02	3.30E+02	**1.1**	**Yes**	b
Cadmium	27 / 27	1.17E+00	3.60E-01	**3.3**	**Yes**	b
Lead	27 / 27	1.26E+01	1.10E+01	**1.1**	**Yes**	b

Notes:
* Maximum concentration used for dieldrin due to low frequency of detect
% = percent
COPEC = chemical of potential ecological concern
mg/kg = milligrams per kilogram
ng/kg = nanograms per kilogram
PAH = polynuclear aromatic hydrocarbon
PAL = Project Action Level
PCB = polychlorinated biphenyls
SLHQ = Screening-Level Hazard Quotient
UCL - Upper Confidence Limit

0.0 indicates that the SLHQ is <0.05
a - UCL is less than the PAL.
b - UCL exceeds the PAL.
c - For PAHs, a cumulative hazard quotient is generated for comparison with the PAL.
d - Uncertain because PAL is unavailable.
e - Maximum less than PAL, but included because it co-occurs with other PAH COPECs.



December 20, 2013 8:19:17 a.m.
Drawing: T:\CANNON\16170622\400\5-1.dwg

LEGEND

- SOIL SAMPLE LOCATION
- PREVIOUS SOIL SAMPLE LOCATION (URS 2009)
- PREVIOUS SITE FEATURES
- BUILDING
- APPROXIMATE BOUNDARY OF SOLID WASTE MANAGEMENT UNITS (SWMUs) 31 AND 34
- APPROXIMATE SITE BOUNDARY
- FENCE
- < PAL — CONCENTRATIONS LESS THAN RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT
- 3.95E+00 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT

NOTE:

All Samples Analyzed for:

- Total Petroleum Hydrocarbons– Diesel Range Organics
- Total Petroleum Hydrocarbons– Gasoline Range Organics
- Total Petroleum Hydrocarbons– Oil Range Organics
- Volatile Organic Compounds
- Semi–Volatile Organic Compounds
- Resource Conservation and Recovery Act Metals
- Polychlorinated Biphenyls

Shown Are Detections Above Residential Human Health Project Action Limits (PALs).

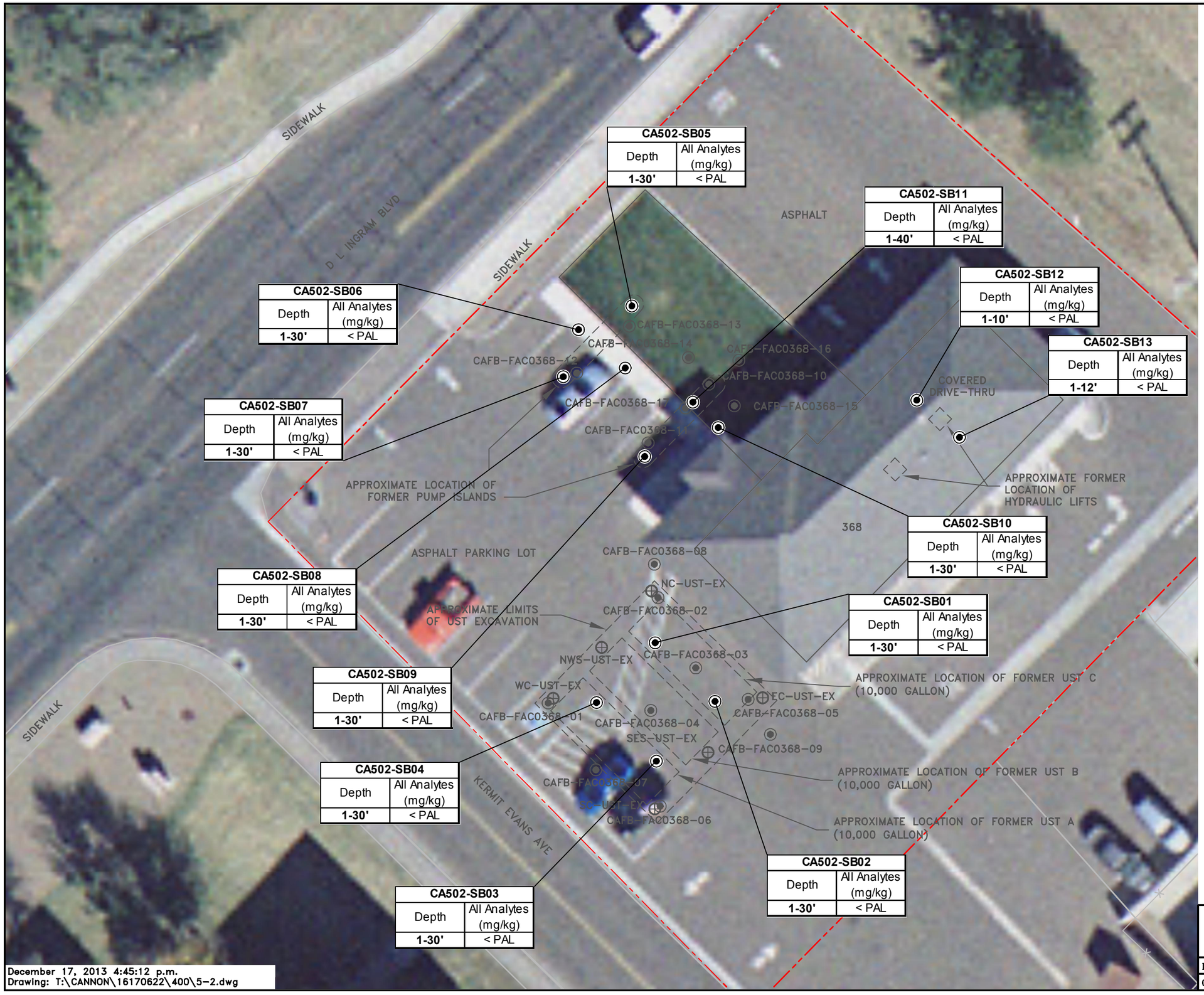
N

60 30 0 60

SCALE IN FEET

SAMPLING RESULTS EXCEEDING SI PALs
FORMER AEROSPACE GROUND EQUIPMENT (AGE)
DISPATCH FACILITY SPILLS SITE (SS–C501)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 08/12/13	PROJECT NO. 16170622	FIG. NO. 5–1
CHK'D. BY: CSA	REVISION: 0		



December 17, 2013 4:45:12 p.m.
Drawing: T:\CANNON\16170622\400\5-2.dwg

LEGEND

- SOIL SAMPLE LOCATION
- PREVIOUS SOIL SAMPLE LOCATION (USGS 1995)
- PREVIOUS SOIL SAMPLE LOCATION (APPROXIMATE) (LCI2 1995)
- PREVIOUS SITE FEATURES
- BUILDING
- APPROXIMATE SITE BOUNDARY
- FENCE
- < PAL — CONCENTRATIONS LESS THAN RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT
- 3.95E+00 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT

NOTE:

All Samples Collected At SB01 through SB11 Were Analyzed for:

- Total Petroleum Hydrocarbons– Diesel Range Organics
- Total Petroleum Hydrocarbons– Gasoline Range Organics
- Total Petroleum Hydrocarbons– Oil Range Organics
- Benzene
- Toluene
- Ethylbenzene
- Xylenes
- Naphthalene
- Site Related Semi–Volatile Organic Compounds
- Lead

All Samples Collected At SB12 And SB13 Were Analyzed for:

- Total Petroleum Hydrocarbons– Diesel Range Organics
- Total Petroleum Hydrocarbons– Gasoline Range Organics
- Total Petroleum Hydrocarbons– Oil Range Organics
- Volatile Organic Compounds
- Semi–Volatile Organic Compounds
- Resource Conservation and Recovery Act Metals
- Polychlorinated Biphenyls

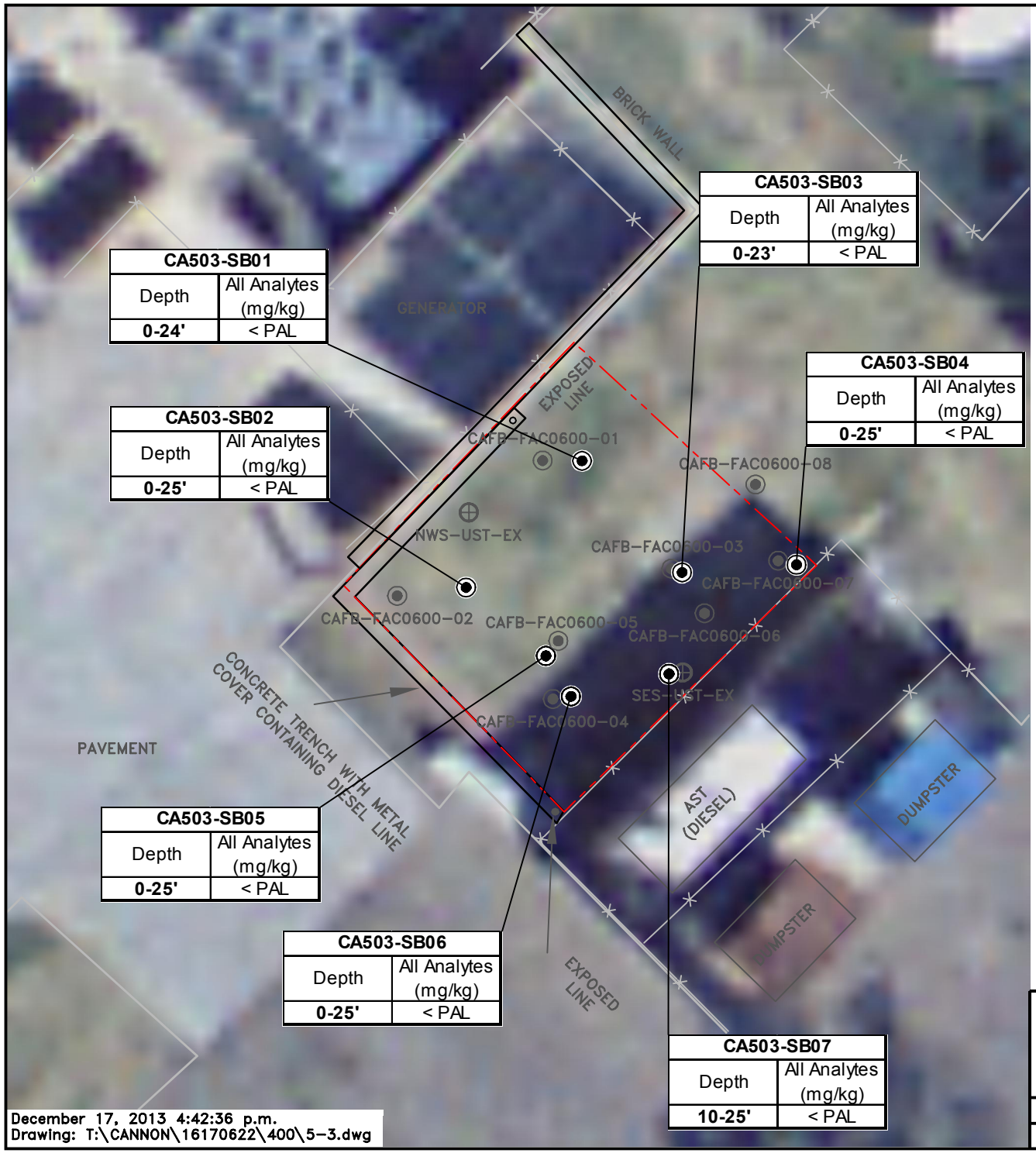
Shown Are Detections Above Residential Human Health Project Action Limits (PALs).

N

20 10 0 20
SCALE IN FEET

SAMPLING RESULTS EXCEEDING SI PALs
FORMER GAS STATION SITE (ST–C502)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 5–2
CHK'D. BY: CSA	REVISION: 0		



CA503-SB01	
Depth	All Analytes (mg/kg)
0-24'	< PAL

CA503-SB02	
Depth	All Analytes (mg/kg)
0-25'	< PAL

CA503-SB03	
Depth	All Analytes (mg/kg)
0-23'	< PAL

CA503-SB04	
Depth	All Analytes (mg/kg)
0-25'	< PAL

CA503-SB05	
Depth	All Analytes (mg/kg)
0-25'	< PAL

CA503-SB06	
Depth	All Analytes (mg/kg)
0-25'	< PAL

CA503-SB07	
Depth	All Analytes (mg/kg)
10-25'	< PAL

December 17, 2013 4:42:36 p.m.
Drawing: T:\CANNON\16170622\400\5-3.dwg

LEGEND

- SOIL SAMPLE LOCATION
- PREVIOUS SOIL SAMPLE LOCATION (USGS 1995)
- PREVIOUS SOIL SAMPLE LOCATION (APPROXIMATE) (PRIVATE CONTRACTOR 1994)
- FENCE
- APPROXIMATE SITE BOUNDARY AND LIMITS OF PREVIOUS UST EXCAVATION
- < PAL — CONCENTRATIONS LESS THAN RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT
- 3.95E+00 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT

NOTE:
All Samples Analyzed for:

- Total Petroleum Hydrocarbons– Diesel Range Organics
- Total Petroleum Hydrocarbons– Oil Range Organics
- Benzene
- Toluene
- Ethylbenzene
- Xylenes
- Naphthalene
- Site Related Semi–Volatile Organic Compounds

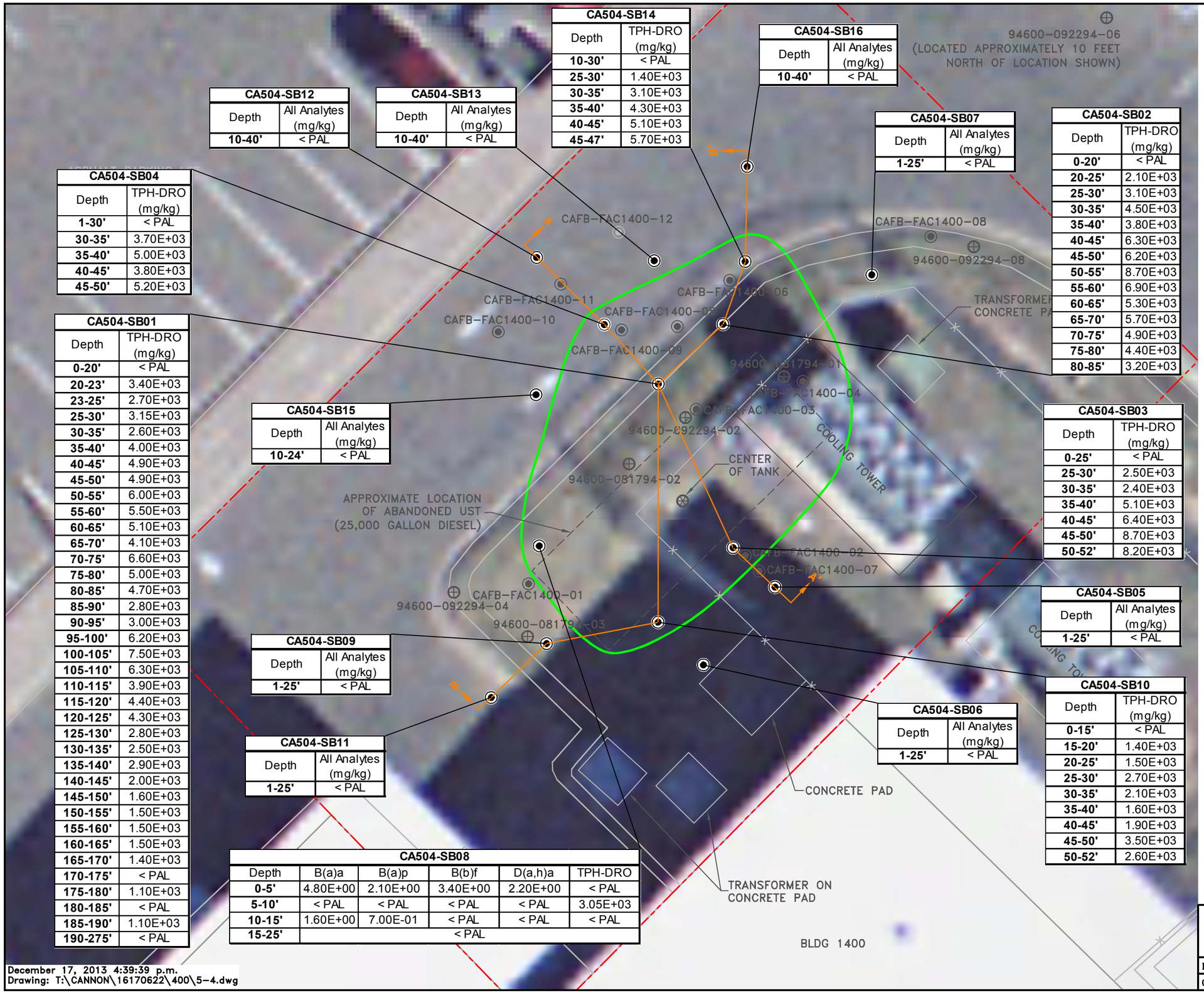
Shown Are Detections Above Residential Health Project Action Limits (PALs).

N

10 5 0 10
SCALE IN FEET

SAMPLING RESULTS EXCEEDING SI PALs
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST–C503)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 08/21/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	5–3



CA504-SB14	
Depth	TPH-DRO (mg/kg)
10-30'	< PAL
25-30'	1.40E+03
30-35'	3.10E+03
35-40'	4.30E+03
40-45'	5.10E+03
45-47'	5.70E+03

CA504-SB16	
Depth	All Analytes (mg/kg)
10-40'	< PAL

CA504-SB12	
Depth	All Analytes (mg/kg)
10-40'	< PAL

CA504-SB13	
Depth	All Analytes (mg/kg)
10-40'	< PAL

CA504-SB07	
Depth	All Analytes (mg/kg)
1-25'	< PAL

CA504-SB02	
Depth	TPH-DRO (mg/kg)
0-20'	< PAL
20-25'	2.10E+03
25-30'	3.10E+03
30-35'	4.50E+03
35-40'	3.80E+03
40-45'	6.30E+03
45-50'	6.20E+03
50-55'	8.70E+03
55-60'	6.90E+03
60-65'	5.30E+03
65-70'	5.70E+03
70-75'	4.90E+03
75-80'	4.40E+03
80-85'	3.20E+03

CA504-SB04	
Depth	TPH-DRO (mg/kg)
1-30'	< PAL
30-35'	3.70E+03
35-40'	5.00E+03
40-45'	3.80E+03
45-50'	5.20E+03

CA504-SB01	
Depth	TPH-DRO (mg/kg)
0-20'	< PAL
20-23'	3.40E+03
23-25'	2.70E+03
25-30'	3.15E+03
30-35'	2.60E+03
35-40'	4.00E+03
40-45'	4.90E+03
45-50'	4.90E+03
50-55'	6.00E+03
55-60'	5.50E+03
60-65'	5.10E+03
65-70'	4.10E+03
70-75'	6.60E+03
75-80'	5.00E+03
80-85'	4.70E+03
85-90'	2.80E+03
90-95'	3.00E+03
95-100'	6.20E+03
100-105'	7.50E+03
105-110'	6.30E+03
110-115'	3.90E+03
115-120'	4.40E+03
120-125'	4.30E+03
125-130'	2.80E+03
130-135'	2.50E+03
135-140'	2.90E+03
140-145'	2.00E+03
145-150'	1.60E+03
150-155'	1.50E+03
155-160'	1.50E+03
160-165'	1.50E+03
165-170'	1.40E+03
170-175'	< PAL
175-180'	1.10E+03
180-185'	< PAL
185-190'	1.10E+03
190-275'	< PAL

CA504-SB15	
Depth	All Analytes (mg/kg)
10-24'	< PAL

CA504-SB03	
Depth	TPH-DRO (mg/kg)
0-25'	< PAL
25-30'	2.50E+03
30-35'	2.40E+03
35-40'	5.10E+03
40-45'	6.40E+03
45-50'	8.70E+03
50-52'	8.20E+03

CA504-SB05	
Depth	All Analytes (mg/kg)
1-25'	< PAL

CA504-SB09	
Depth	All Analytes (mg/kg)
1-25'	< PAL

CA504-SB10	
Depth	TPH-DRO (mg/kg)
0-15'	< PAL
15-20'	1.40E+03
20-25'	1.50E+03
25-30'	2.70E+03
30-35'	2.10E+03
35-40'	1.60E+03
40-45'	1.90E+03
45-50'	3.50E+03
50-52'	2.60E+03

CA504-SB06	
Depth	All Analytes (mg/kg)
1-25'	< PAL

CA504-SB11	
Depth	All Analytes (mg/kg)
1-25'	< PAL

CA504-SB08					
Depth	B(a)a	B(a)p	B(b)f	D(a,h)a	TPH-DRO
0-5'	4.80E+00	2.10E+00	3.40E+00	2.20E+00	< PAL
5-10'	< PAL	< PAL	< PAL	< PAL	3.05E+03
10-15'	1.60E+00	7.00E-01	< PAL	< PAL	< PAL
15-25'	< PAL				

LEGEND

- SOIL SAMPLE LOCATION
- PREVIOUS SOIL SAMPLE LOCATION (USGS 1995)
- PREVIOUS SOIL SAMPLE LOCATION (APPROXIMATE) (KEERS 1994)
- FENCE
- PREVIOUS SITE FEATURES
- BUILDING
- APPROXIMATE SITE BOUNDARY
- HORIZONTAL EXTENT OF TPH-DRO EXCEEDING THE HUMAN HEALTH PAL
- GEOLOGIC CROSS SECTION LOCATIONS
- < PAL — CONCENTRATIONS LESS THAN RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT
- 3.95E+00 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT

ACRONYMS

B(a)a = benzo(a)anthracene
B(a)p = benzo(a)pyrene
B(b)f = benzo(b)fluoranthene
D(a,h)a= dibenz(a,h)anthracene
TPH-DRO= total petroleum hydrocarbons diesel range organics

NOTE:

All Samples Analyzed for:

- Total Petroleum Hydrocarbons- Diesel Range Organics
- Total Petroleum Hydrocarbons- Oil Range Organics
- Benzene
- Toluene
- Ethylbenzene
- Xylenes
- Naphthalene
- Site Related Semi-Volatile Organic Compounds

Shown Are Detections Above Residential Human Health Project Action Limits (PALs).

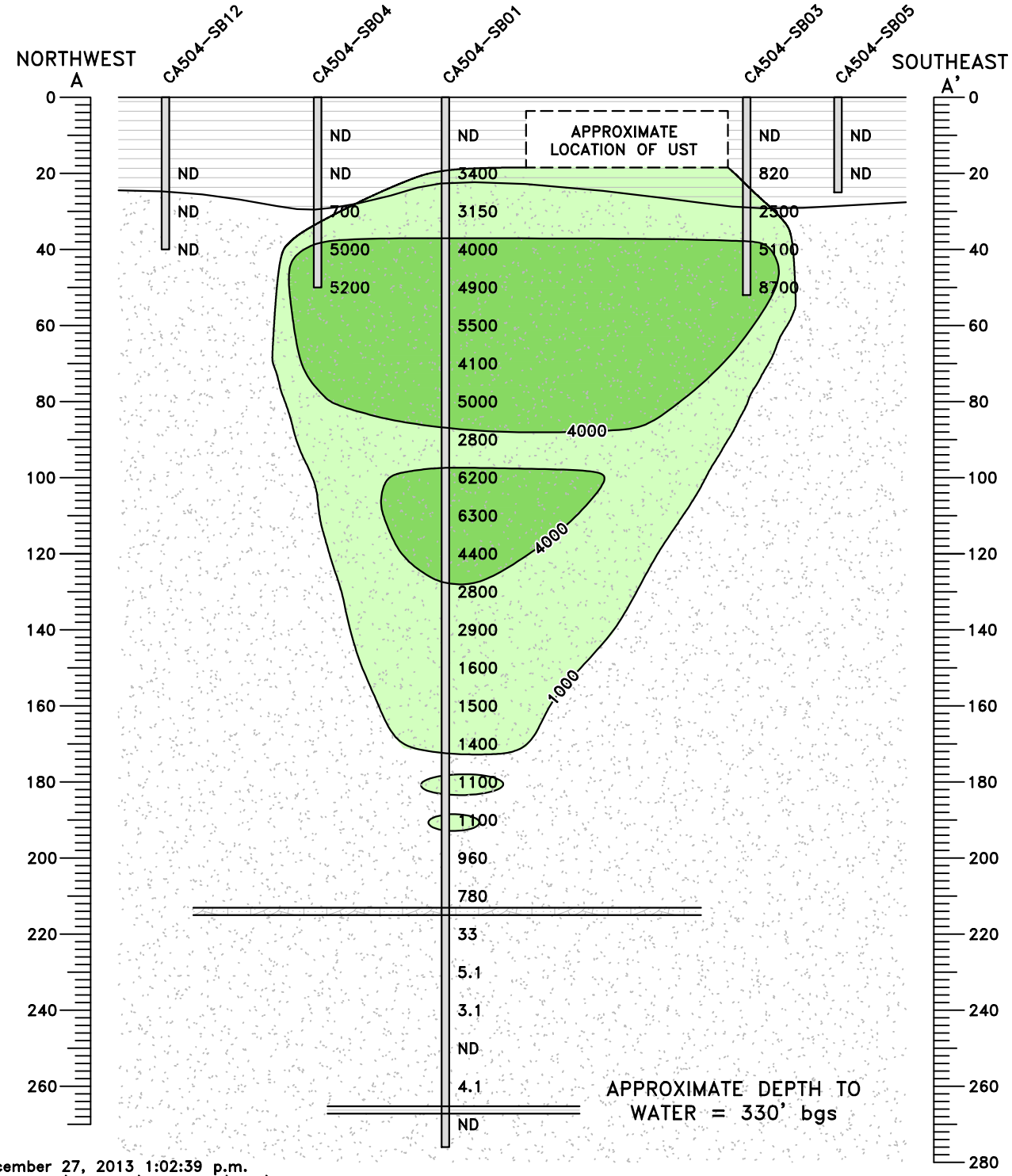
N

10 5 0 10
SCALE IN FEET

SAMPLING RESULTS EXCEEDING SI PALs
HOSPITAL ABANDONED UST SITE (ST-C504)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 5-4
CHK'D. BY: CSA	REVISION: 0		

December 17, 2013 4:39:39 p.m.
Drawing: T:\CANNON\16170622\400\5-4.dwg



LEGEND

- SILT
- SAND
- SANDSTONE
- INTERPRETED VERTICAL AND HORIZONTAL EXTENT OF TPH-DRO (1000 mg/kg)
- INTERPRETED VERTICAL AND HORIZONTAL EXTENT OF TPH-DRO (4000 mg/kg)
- 190 BORING WITH TPH-DRO CONCENTRATION (mg/kg) SHOWN ON 10 FOOT INTERVALS

mg/kg = MILLIGRAMS PER KILOGRAM
ND = NONDETECT
UST = UNDERGROUND STORAGE TANK
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS DIESEL RANGE ORGANICS
bgs = BELOW GROUND SURFACE

10 5 0 10
HORIZONTAL SCALE

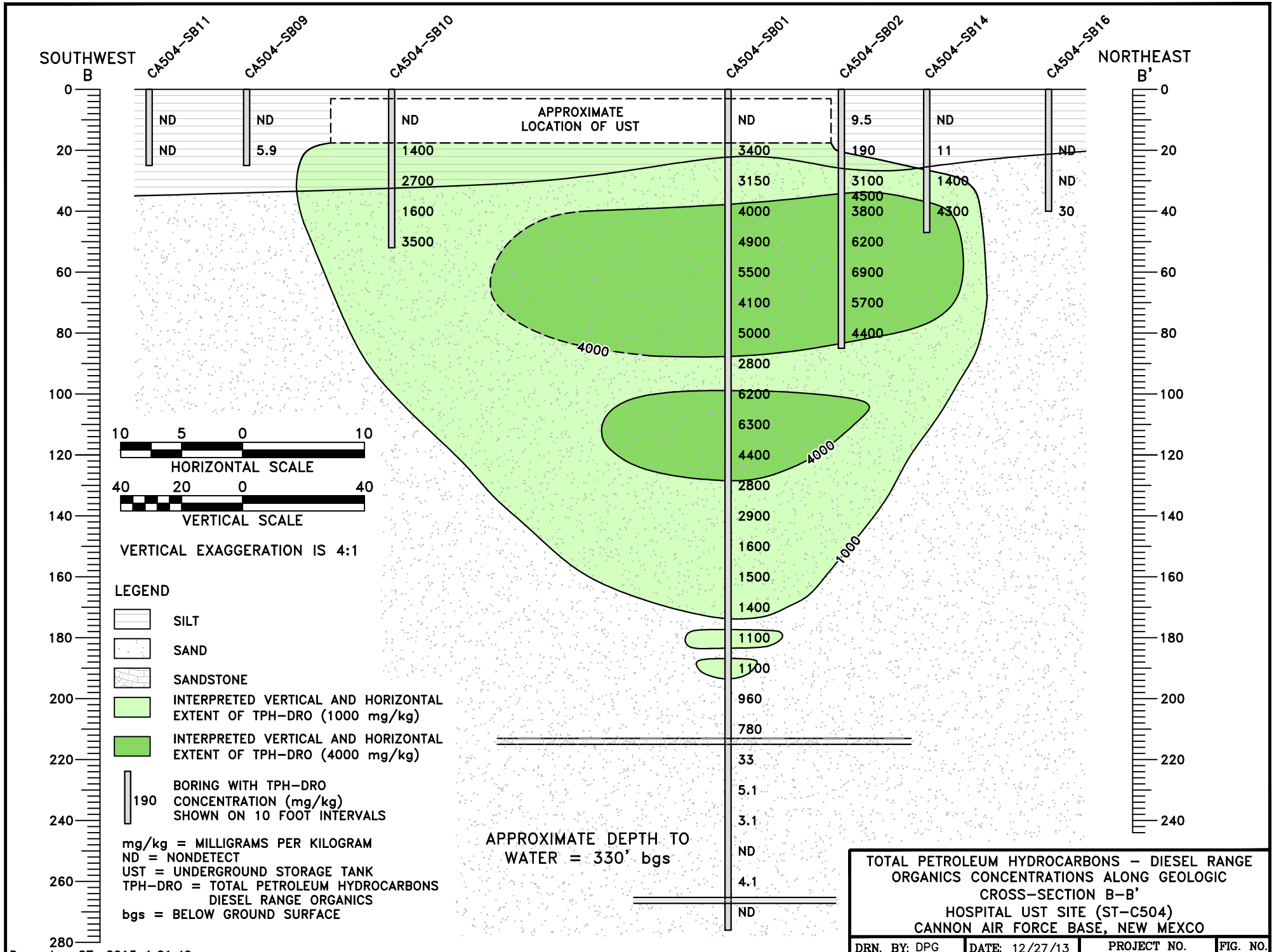
40 20 0 40
VERTICAL SCALE

VERTICAL EXAGGERATION IS 4:1

TOTAL PETROLEUM HYDROCARBONS – DIESEL RANGE ORGANICS CONCENTRATIONS ALONG GEOLOGIC CROSS-SECTION A-A'
HOSPITAL UST SITE (ST-C504)
CANNON AIR FORCE BASE, NEW MEXCO

DRN. BY: DPG	DATE: 12/27/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CA	REVISION: 0	16170788	5-5

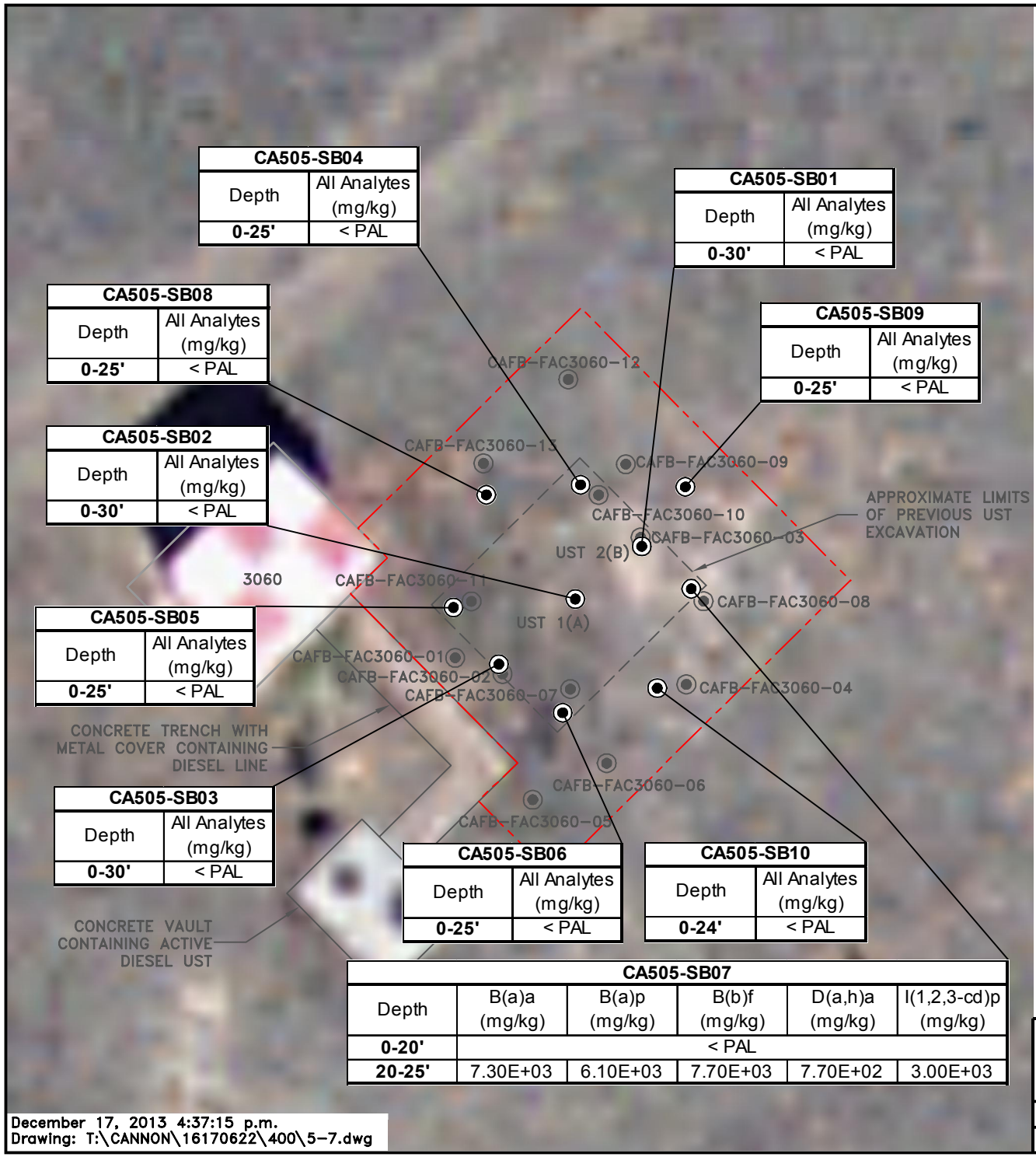
December 27, 2013 1:02:39 p.m.
Drawing: T:\CANNON\16170622\400\x-sec.dwg



TOTAL PETROLEUM HYDROCARBONS – DIESEL RANGE ORGANICS CONCENTRATIONS ALONG GEOLOGIC CROSS-SECTION B–B'
HOSPITAL UST SITE (ST-C504)
CANNON AIR FORCE BASE, NEW MEXCO

DRN. BY: DPG	DATE: 12/27/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CA	REVISION: 0	16170788	5–6

December 27, 2013 1:01:40 p.m.
Drawing: T:\CANNON\16170622\400\x-sec.dwg



CA505-SB04

Depth	All Analytes (mg/kg)
0-25'	< PAL

CA505-SB01

Depth	All Analytes (mg/kg)
0-30'	< PAL

CA505-SB08

Depth	All Analytes (mg/kg)
0-25'	< PAL

CA505-SB09

Depth	All Analytes (mg/kg)
0-25'	< PAL

CA505-SB02

Depth	All Analytes (mg/kg)
0-30'	< PAL

CA505-SB05

Depth	All Analytes (mg/kg)
0-25'	< PAL

CA505-SB03

Depth	All Analytes (mg/kg)
0-30'	< PAL

CA505-SB06

Depth	All Analytes (mg/kg)
0-25'	< PAL

CA505-SB10

Depth	All Analytes (mg/kg)
0-24'	< PAL

CA505-SB07

Depth	B(a)a (mg/kg)	B(a)p (mg/kg)	B(b)f (mg/kg)	D(a,h)a (mg/kg)	I(1,2,3-cd)p (mg/kg)
0-20'	< PAL				
20-25'	7.30E+03	6.10E+03	7.70E+03	7.70E+02	3.00E+03

LEGEND

- SOIL SAMPLE LOCATION
- PREVIOUS SOIL SAMPLE LOCATION (USGS 1995)
- PREVIOUS SITE FEATURES
- BUILDING
- APPROXIMATE SITE BOUNDARY
- < PAL — CONCENTRATIONS LESS THAN RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT
- 3.95E+00 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT

ACRONYMS

B(a)a = benzo(a)anthracene
B(a)p = benzo(a)pyrene
B(b)f = benzo(b)fluoranthene
D(a,h)a= dibenz(a,h)anthracene
I(1,2,3-cd)p = indeno (1,2,3-cd)pyrene

NOTE:

All Samples Analyzed for:

- Total Petroleum Hydrocarbons- Diesel Range Organics
- Total Petroleum Hydrocarbons- Oil Range Organics
- Benzene
- Toluene
- Ethylbenzene
- Xylenes
- Naphthalene
- Site Related Semi-Volatile Organic Compounds.

Shown Are Detections Above Residential Human Health Project Action Limits (PALs).

N

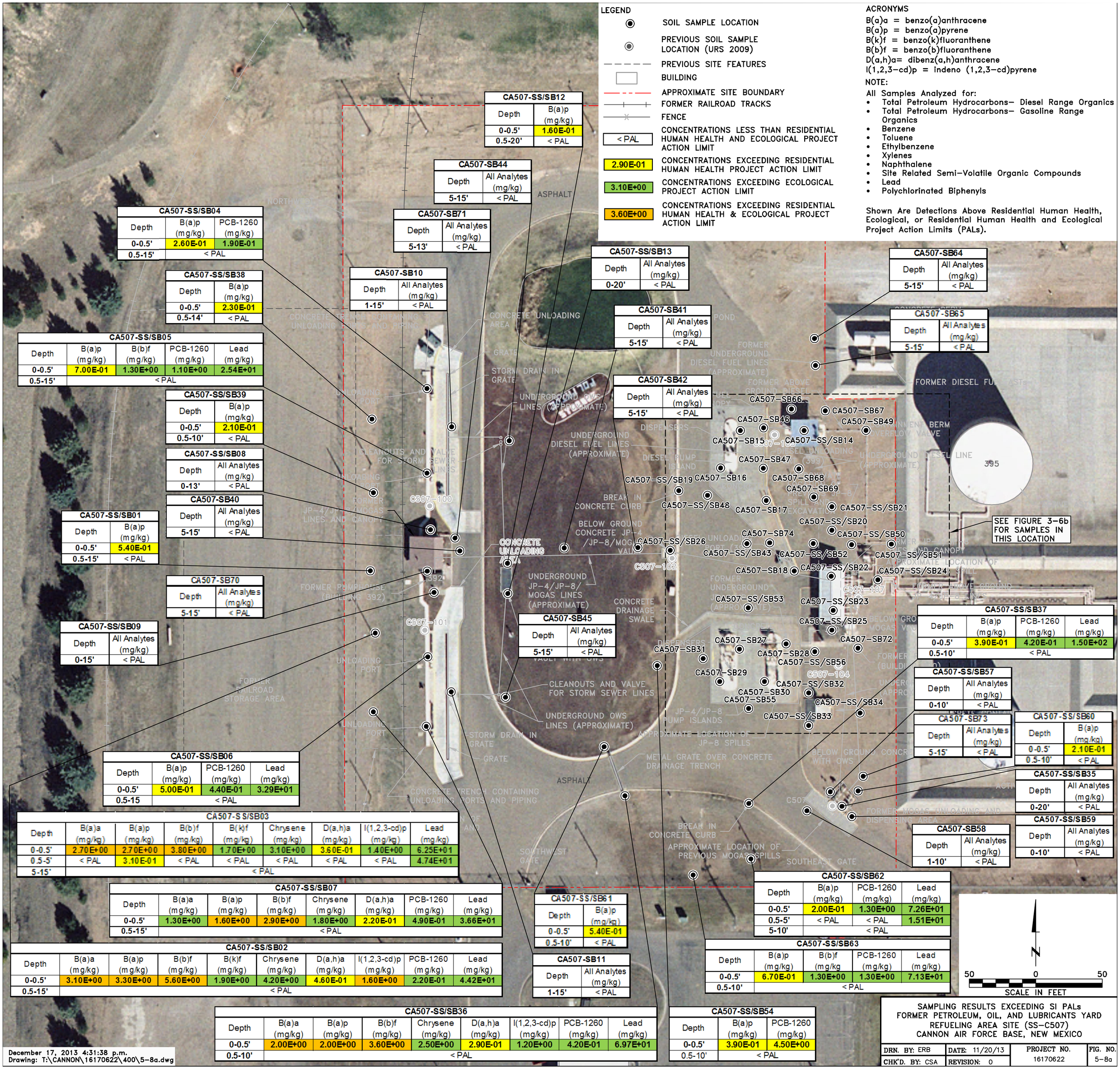
10 5 0 10

SCALE IN FEET

SAMPLING RESULTS EXCEEDING SI PALs
FLIGHTLINE GENERATOR USTs SITE (ST-C505)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 09/30/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	5-7

December 17, 2013 4:37:15 p.m.
Drawing: T:\CANNON\16170622\400\5-7.dwg



LEGEND

- SOIL SAMPLE LOCATION
- PREVIOUS SOIL SAMPLE LOCATION (URS 2009)
- PREVIOUS SITE FEATURES
- BUILDING
- APPROXIMATE SITE BOUNDARY
- FORMER RAILROAD TRACKS
- FENCE
- < PAL — CONCENTRATIONS LESS THAN RESIDENTIAL HUMAN HEALTH AND ECOLOGICAL PROJECT ACTION LIMIT
- 2.90E-01 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT
- 3.10E+00 — CONCENTRATIONS EXCEEDING ECOLOGICAL PROJECT ACTION LIMIT
- 3.60E+00 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH & ECOLOGICAL PROJECT ACTION LIMIT

ACRONYMS

B(a)a = benzo(a)anthracene
B(a)p = benzo(a)pyrene
B(k)f = benzo(k)fluoranthene
B(b)f = benzo(b)fluoranthene
D(a,h)a= dibenz(a,h)anthracene
I(1,2,3-cd)p = indeno (1,2,3-cd)pyrene

NOTE:

All Samples Analyzed for:

- Total Petroleum Hydrocarbons– Diesel Range Organics
- Total Petroleum Hydrocarbons– Gasoline Range Organics
- Benzene
- Toluene
- Ethylbenzene
- Xylenes
- Naphthalene
- Site Related Semi-Volatile Organic Compounds
- Lead
- Polychlorinated Biphenyls

Shown Are Detections Above Residential Human Health, Ecological, or Residential Human Health and Ecological Project Action Limits (PALs).

CA507-SS/SB12

Depth	B(a)p (mg/kg)
0-0.5'	1.60E-01
0.5-20'	< PAL

CA507-SB44

Depth	All Analytes (mg/kg)
5-15'	< PAL

CA507-SB71

Depth	All Analytes (mg/kg)
5-13'	< PAL

CA507-SS/SB04

Depth	B(a)p (mg/kg)	PCB-1260 (mg/kg)
0-0.5'	2.60E-01	1.90E-01
0.5-15'	< PAL	

CA507-SS/SB38

Depth	B(a)p (mg/kg)
0-0.5'	2.30E-01
0.5-14'	< PAL

CA507-SS/SB05

Depth	B(a)p (mg/kg)	B(b)f (mg/kg)	PCB-1260 (mg/kg)	Lead (mg/kg)
0-0.5'	7.00E-01	1.30E+00	1.10E+00	2.54E+01
0.5-15'	< PAL			

CA507-SS/SB39

Depth	B(a)p (mg/kg)
0-0.5'	2.10E-01
0.5-10'	< PAL

CA507-SS/SB08

Depth	All Analytes (mg/kg)
0-13'	< PAL

CA507-SB40

Depth	All Analytes (mg/kg)
5-15'	< PAL

CA507-SS/SB01

Depth	B(a)p (mg/kg)
0-0.5'	5.40E-01
0.5-15'	< PAL

CA507-SB70

Depth	All Analytes (mg/kg)
5-15'	< PAL

CA507-SS/SB09

Depth	All Analytes (mg/kg)
0-15'	< PAL

CA507-SS/SB06

Depth	B(a)p (mg/kg)	PCB-1260 (mg/kg)	Lead (mg/kg)
0-0.5'	5.00E-01	4.40E-01	3.29E+01
0.5-15	< PAL		

CA507-SS/SB03

Depth	B(a)a (mg/kg)	B(a)p (mg/kg)	B(b)f (mg/kg)	B(k)f (mg/kg)	Chrysene (mg/kg)	D(a,h)a (mg/kg)	I(1,2,3-cd)p (mg/kg)	Lead (mg/kg)
0-0.5'	2.70E+00	2.70E+00	3.80E+00	1.70E+00	3.10E+00	3.60E-01	1.40E+00	6.25E+01
0.5-5'	< PAL	3.10E-01	< PAL	< PAL	< PAL	< PAL	< PAL	4.74E+01
5-15'	< PAL							

CA507-SS/SB07

Depth	B(a)a (mg/kg)	B(a)p (mg/kg)	B(b)f (mg/kg)	Chrysene (mg/kg)	D(a,h)a (mg/kg)	PCB-1260 (mg/kg)	Lead (mg/kg)
0-0.5'	1.30E+00	1.60E+00	2.90E+00	1.80E+00	2.20E-01	4.90E-01	3.66E+01
0.5-15'	< PAL						

CA507-SS/SB02

Depth	B(a)a (mg/kg)	B(a)p (mg/kg)	B(b)f (mg/kg)	B(k)f (mg/kg)	Chrysene (mg/kg)	D(a,h)a (mg/kg)	I(1,2,3-cd)p (mg/kg)	PCB-1260 (mg/kg)	Lead (mg/kg)
0-0.5'	3.10E+00	3.30E+00	5.60E+00	1.90E+00	4.20E+00	4.60E-01	1.60E+00	2.20E-01	4.42E+01
0.5-15'	< PAL								

CA507-SS/SB36

Depth	B(a)a (mg/kg)	B(a)p (mg/kg)	B(b)f (mg/kg)	Chrysene (mg/kg)	D(a,h)a (mg/kg)	I(1,2,3-cd)p (mg/kg)	PCB-1260 (mg/kg)	Lead (mg/kg)
0-0.5'	2.00E+00	2.00E+00	3.60E+00	2.50E+00	2.90E-01	1.20E+00	4.20E-01	6.97E+01
0.5-10'	< PAL							

CA507-SS/SB10

Depth	All Analytes (mg/kg)
1-15'	< PAL

CA507-SS/SB13

Depth	All Analytes (mg/kg)
0-20'	< PAL

CA507-SB41

Depth	All Analytes (mg/kg)
5-15'	< PAL

CA507-SB42

Depth	All Analytes (mg/kg)
5-15'	< PAL

CA507-SB45

Depth	All Analytes (mg/kg)
5-15'	< PAL

CA507-SS/SB61

Depth	B(a)p (mg/kg)
0-0.5'	5.40E-01
0.5-10'	< PAL

CA507-SB11

Depth	All Analytes (mg/kg)
1-15'	< PAL

CA507-SS/SB54

Depth	B(a)p (mg/kg)	PCB-1260 (mg/kg)
0-0.5'	3.90E-01	4.50E+00
0.5-10'	< PAL	

CA507-SB64

Depth	All Analytes (mg/kg)
5-15'	< PAL

CA507-SB65

Depth	All Analytes (mg/kg)
5-15'	< PAL

CA507-SS/SB37

Depth	B(a)p (mg/kg)	PCB-1260 (mg/kg)	Lead (mg/kg)
0-0.5'	3.90E-01	4.20E-01	1.50E+02
0.5-10'	< PAL		

CA507-SS/SB57

Depth	All Analytes (mg/kg)
0-10'	< PAL

CA507-SB73

Depth	All Analytes (mg/kg)
5-15'	< PAL

CA507-SS/SB60

Depth	B(a)p (mg/kg)
0-0.5'	2.10E-01
0.5-10'	< PAL

CA507-SS/SB35

Depth	All Analytes (mg/kg)
0-20'	< PAL

CA507-SS/SB59

Depth	All Analytes (mg/kg)
0-10'	< PAL

CA507-SB58

Depth	All Analytes (mg/kg)
1-10'	< PAL

CA507-SS/SB62

Depth	B(a)p (mg/kg)	PCB-1260 (mg/kg)	Lead (mg/kg)
0-0.5'	2.00E-01	1.30E+00	7.26E+01
0.5-5'	< PAL	< PAL	1.51E+01
5-10'	< PAL		

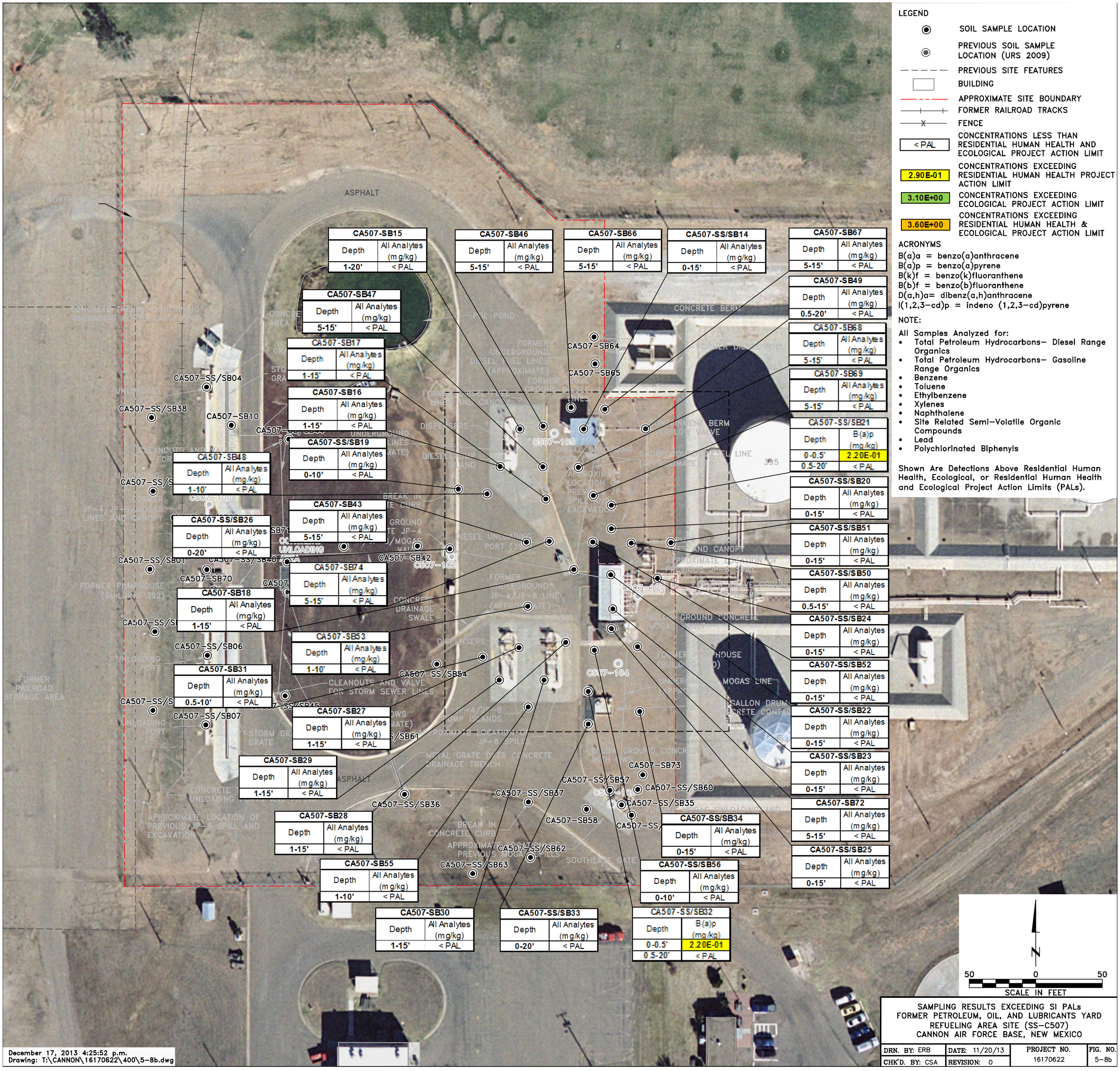
CA507-SS/SB63

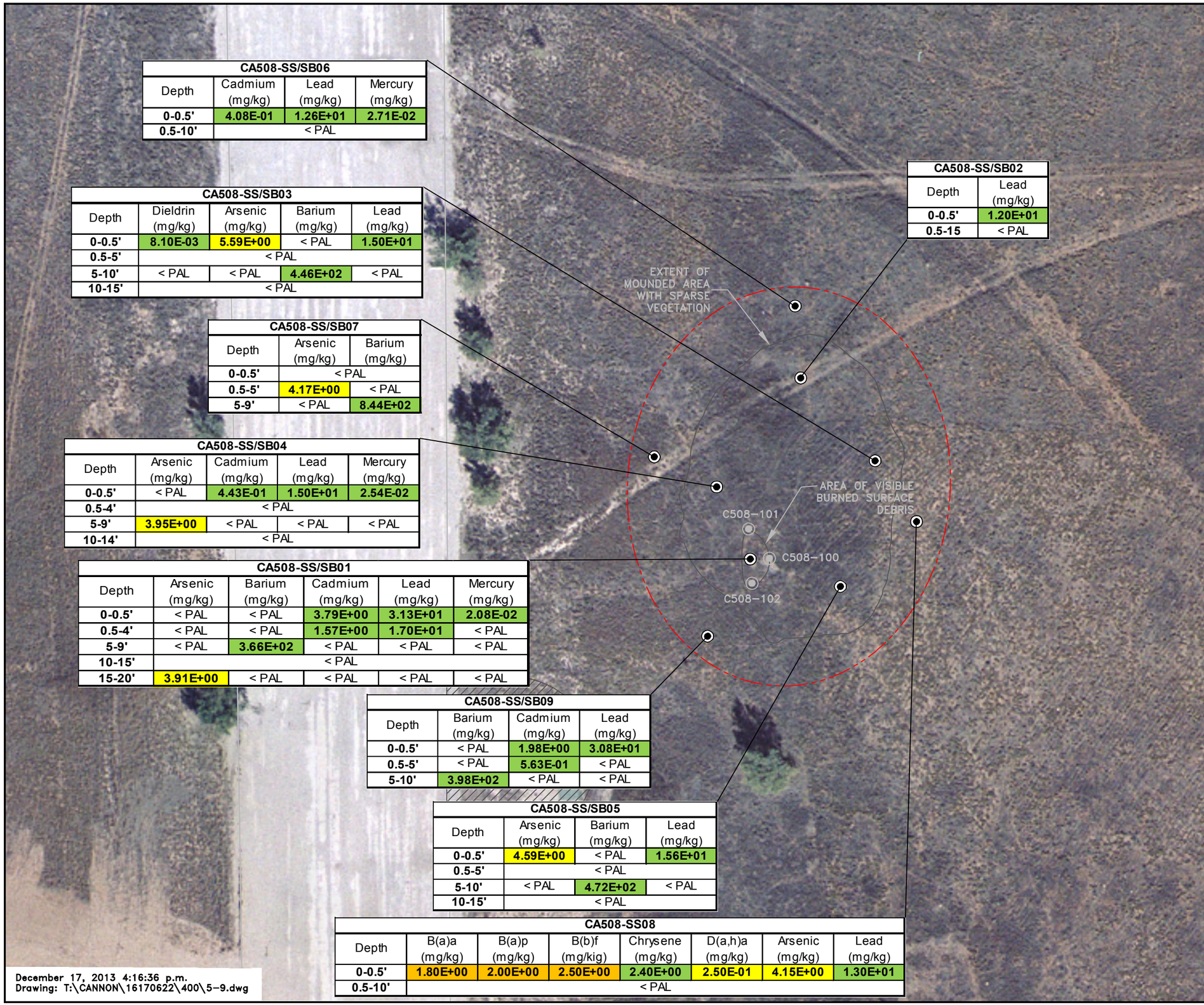
Depth	B(a)p (mg/kg)	B(b)f (mg/kg)	PCB-1260 (mg/kg)	Lead (mg/kg)
0-0.5'	6.70E-01	1.30E+00	1.30E+00	7.13E+01
0.5-10'	< PAL			

SAMPLING RESULTS EXCEEDING SI PALs
FORMER PETROLEUM, OIL, AND LUBRICANTS YARD
REFUELING AREA SITE (SS-C507)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 11/20/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	5-8a

December 17, 2013 4:31:38 p.m.
Drawing: T:\CANNON\16170622\400\5-8a.dwg


ASPHALT
CONCRETE BERM
FORMER UNDERGROUND DIESEL FUEL LINES (APPROXIMATE)
FORMER ABOVE GROUND DIESEL FUEL LINES
DISPENSERS
DIESEL PUMP ISLAND
DIESEL UNLOADING PORT (395)
APPROXIMATE LOCATION OF PREVIOUS JP-8 SPILL EXCAVATION
UNDERGROUND DIESEL LINE (APPROXIMATE)
395
CONCRETE DRAINAGE SWALE
FORMER UNDERGROUND JP-4/JP-8 LINE (APPROXIMATE)
CLEANOUTS AND VALVE FOR STORM SEWER LINES
JP-4/JP-8 PUMP ISLANDS
APPROXIMATE LOCATION OF JP-8 SPILLS
METAL GRATE OVER CONCRETE DRAINAGE TRENCH
BREAK IN CONCRETE CURB
APPROXIMATE LOCATION OF PREVIOUS JP-8 SPILLS
SOUTHEAST GATE
FORMER PUMPHOUSE (BUILDING 392)
FORMER RAILROAD STORAGE AREA
UNLOADING PORT
STORM DRAIN GRATE
CONCRETE UNLOADING PORTS AND PIPING
APPROXIMATE LOCATION OF PREVIOUS JP-8 SPILL AND EXCAVATION
MOGAS LINE
BELOW GROUND CONCRETE MOGAS VAULT
C507-105
C507-104
C507-102
C507-100
CA507-SB64
CA507-SB65
CA507-SB42
CA507-SB73
CA507-SS/SB57
CA507-SS/SB60
CA507-SS/SB37
CA507-SS/SB36
CA507-SS/SB35
CA507-SB58
CA507-SS/SB62
CA507-SS/SB63
CA507-SS/SB04
CA507-SS/SB38
CA507-SB10
CA507-SS/SB01
CA507-SB70
CA507-SS/SB06
CA507-SS/SB54
CA507-SS/SB07
CA507-SB18
CA507-SB31
CA507-SB29
CA507-SB28
CA507-SB55
CA507-SB30
CA507-SS/SB33
CA507-SS/SB32
CA507-SS/SB34
CA507-SS/SB56
CA507-SB15
CA507-SB46
CA507-SB66
CA507-SS/SB14
CA507-SB67
CA507-SB49
CA507-SB68
CA507-SB69
CA507-SS/SB21
CA507-SS/SB20
CA507-SS/SB51
CA507-SS/SB50
CA507-SS/SB24
CA507-SS/SB52
CA507-SS/SB22
CA507-SS/SB23
CA507-SB72
CA507-SS/SB25
CA507-SB47
CA507-SB17
CA507-SB16
CA507-SS/SB19
CA507-SB48
CA507-SS/SB26
CA507-SB43
CA507-SB74
CA507-SB53
CA507-SB27
LEGEND
SOIL SAMPLE LOCATION
PREVIOUS SOIL SAMPLE LOCATION (URS 2009)
PREVIOUS SITE FEATURES
BUILDING
APPROXIMATE SITE BOUNDARY
FORMER RAILROAD TRACKS
FENCE
< PAL — CONCENTRATIONS LESS THAN RESIDENTIAL HUMAN HEALTH AND ECOLOGICAL PROJECT ACTION LIMIT
2.90E-01 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT
3.10E+00 — CONCENTRATIONS EXCEEDING ECOLOGICAL PROJECT ACTION LIMIT
3.60E+00 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH & ECOLOGICAL PROJECT ACTION LIMIT
ACRONYMS
B(a)a = benzo(a)anthracene
B(a)p = benzo(a)pyrene
B(k)f = benzo(k)fluoranthene
B(b)f = benzo(b)fluoranthene
D(a,h)a= dibenz(a,h)anthracene
I(1,2,3-cd)p = indeno (1,2,3-cd)pyrene
NOTE:
All Samples Analyzed for:
• Total Petroleum Hydrocarbons– Diesel Range Organics
• Total Petroleum Hydrocarbons– Gasoline Range Organics
• Benzene
• Toluene
• Ethylbenzene
• Xylenes
• Naphthalene
• Site Related Semi–Volatile Organic Compounds
• Lead
• Polychlorinated Biphenyls
Shown Are Detections Above Residential Human Health, Ecological, or Residential Human Health and Ecological Project Action Limits (PALs).
N
50 0 50
SCALE IN FEET
SAMPLING RESULTS EXCEEDING SI PALs
FORMER PETROLEUM, OIL, AND LUBRICANTS YARD
REFUELING AREA SITE (SS–C507)
CANNON AIR FORCE BASE, NEW MEXICO
DRN. BY: ERB
CHK'D. BY: CSA
DATE: 11/20/13
REVISION: 0
PROJECT NO. 16170622
FIG. NO. 5–8b
December 17, 2013 4:25:52 p.m.
Drawing: T:\CANNON\16170622\400\5–8b.dwg



CA508-SS/SB06

Depth	Cadmium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)
0-0.5'	4.08E-01	1.26E+01	2.71E-02
0.5-10'	< PAL		

CA508-SS/SB03

Depth	Dieldrin (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Lead (mg/kg)
0-0.5'	8.10E-03	5.59E+00	< PAL	1.50E+01
0.5-5'	< PAL			
5-10'	< PAL	< PAL	4.46E+02	< PAL
10-15'	< PAL			

CA508-SS/SB07

Depth	Arsenic (mg/kg)	Barium (mg/kg)
0-0.5'	< PAL	
0.5-5'	4.17E+00	< PAL
5-9'	< PAL	8.44E+02

CA508-SS/SB04

Depth	Arsenic (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)
0-0.5'	< PAL	4.43E-01	1.50E+01	2.54E-02
0.5-4'	< PAL			
5-9'	3.95E+00	< PAL	< PAL	< PAL
10-14'	< PAL			

CA508-SS/SB01

Depth	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)
0-0.5'	< PAL	< PAL	3.79E+00	3.13E+01	2.08E-02
0.5-4'	< PAL	< PAL	1.57E+00	1.70E+01	< PAL
5-9'	< PAL	3.66E+02	< PAL	< PAL	< PAL
10-15'	< PAL				
15-20'	3.91E+00	< PAL	< PAL	< PAL	< PAL

CA508-SS/SB02

Depth	Lead (mg/kg)
0-0.5'	1.20E+01
0.5-15	< PAL

CA508-SS/SB09

Depth	Barium (mg/kg)	Cadmium (mg/kg)	Lead (mg/kg)
0-0.5'	< PAL	1.98E+00	3.08E+01
0.5-5'	< PAL	5.63E-01	< PAL
5-10'	3.98E+02	< PAL	< PAL

CA508-SS/SB05

Depth	Arsenic (mg/kg)	Barium (mg/kg)	Lead (mg/kg)
0-0.5'	4.59E+00	< PAL	1.56E+01
0.5-5'	< PAL		
5-10'	< PAL	4.72E+02	< PAL
10-15'	< PAL		

CA508-SS08

Depth	B(a)a (mg/kg)	B(a)p (mg/kg)	B(b)f (mg/kig)	Chrysene (mg/kg)	D(a,h)a (mg/kg)	Arsenic (mg/kg)	Lead (mg/kg)
0-0.5'	1.80E+00	2.00E+00	2.50E+00	2.40E+00	2.50E-01	4.15E+00	1.30E+01
0.5-10'	< PAL						

LEGEND

- SOIL SAMPLE LOCATION
- PREVIOUS SOIL SAMPLE LOCATION (URS 2009)
- APPROXIMATE SITE BOUNDARY
- < PAL — CONCENTRATIONS LESS THAN RESIDENTIAL HUMAN HEALTH AND ECOLOGICAL PROJECT ACTION LIMIT
- 2.90E-01 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT
- 3.10E+00 — CONCENTRATIONS EXCEEDING ECOLOGICAL PROJECT ACTION LIMIT
- 4.50E+00 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH & ECOLOGICAL PROJECT ACTION LIMIT

ACRONYMS

B(a)a = benzo(a)anthracene
B(a)p = benzo(a)pyrene
B(b)f = benzo(b)fluoranthene
D(a,h)a= dibenz(a,h)anthracene

NOTE:
All Samples Analyzed for:

- Total Petroleum Hydrocarbons– Diesel Range Organics
- Total Petroleum Hydrocarbons– Gasoline Range Organics
- Total Petroleum Hydrocarbons– Oil Range Organics
- Volatile Organic Compounds,
- Semi–Volatile Organic Compounds,
- Pesticides
- Resource Conservation and Recovery Act Metals
- Polychlorinated Biphenyls
- Explosives
- Dioxins/Furans.

Shown Are Detections Above Residential Human Health, Ecological, or Residential Human Health and Ecological Project Action Limits (PALs).

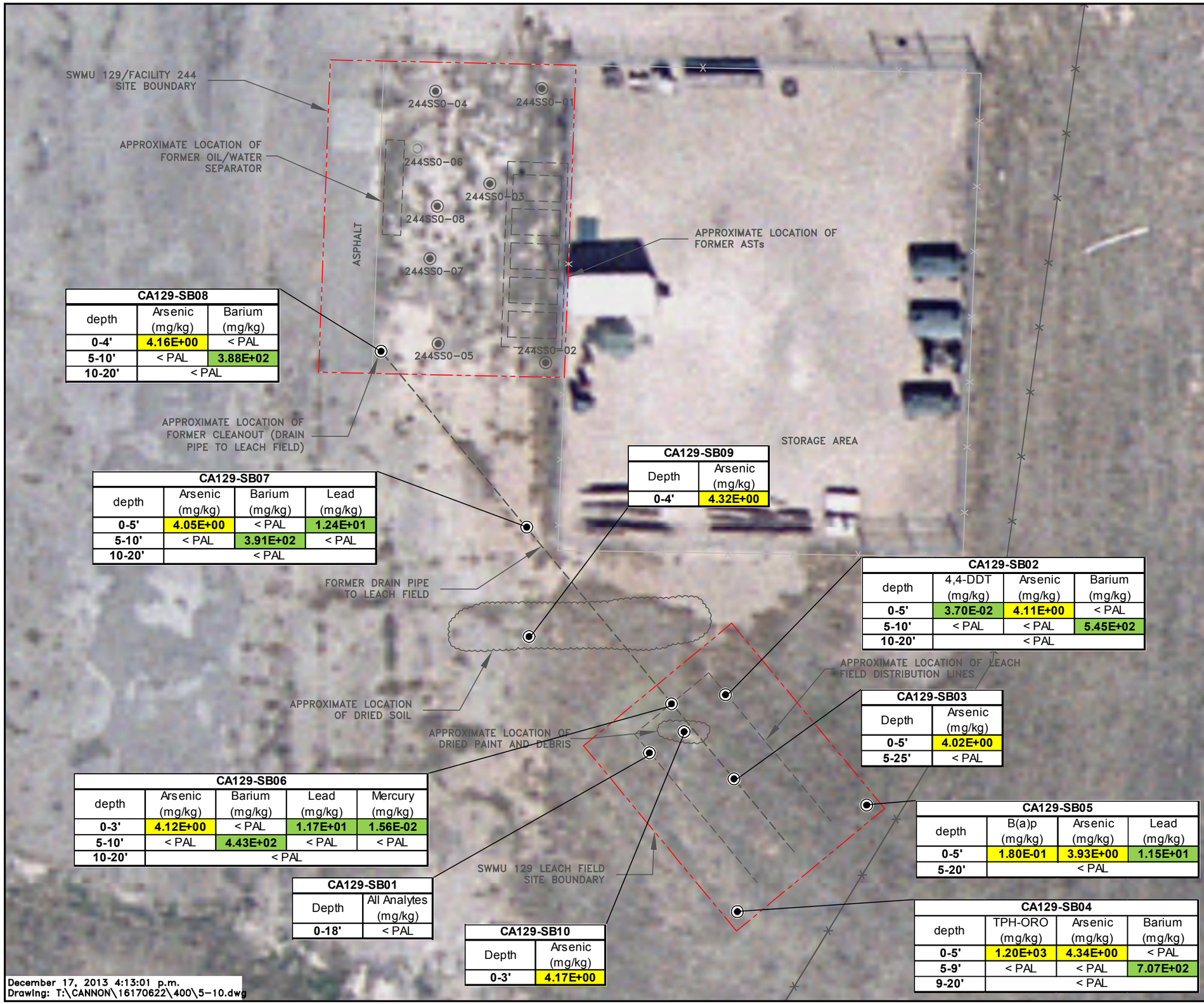
N

60 30 0 60
SCALE IN FEET

SAMPLING RESULTS EXCEEDING SI PALs
SURFACE DISPOSAL AREA SITE (SD–C508)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 09/30/13	PROJECT NO. 16170622	FIG. NO. 5–9
CHK'D. BY: CSA	REVISION: 0		

December 17, 2013 4:16:36 p.m.
Drawing: T:\CANNON\16170622\400\5–9.dwg



CA129-SB08		
depth	Arsenic (mg/kg)	Barium (mg/kg)
0-4'	4.16E+00	< PAL
5-10'	< PAL	3.88E+02
10-20'	< PAL	

CA129-SB07			
depth	Arsenic (mg/kg)	Barium (mg/kg)	Lead (mg/kg)
0-5'	4.05E+00	< PAL	1.24E+01
5-10'	< PAL	3.91E+02	< PAL
10-20'	< PAL		

CA129-SB09	
Depth	Arsenic (mg/kg)
0-4'	4.32E+00

CA129-SB02			
depth	4,4-DDT (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)
0-5'	3.70E-02	4.11E+00	< PAL
5-10'	< PAL	< PAL	5.45E+02
10-20'	< PAL		

CA129-SB03	
Depth	Arsenic (mg/kg)
0-5'	4.02E+00
5-25'	< PAL

CA129-SB06				
depth	Arsenic (mg/kg)	Barium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)
0-3'	4.12E+00	< PAL	1.17E+01	1.56E-02
5-10'	< PAL	4.43E+02	< PAL	< PAL
10-20'	< PAL			

CA129-SB05			
depth	B(a)p (mg/kg)	Arsenic (mg/kg)	Lead (mg/kg)
0-5'	1.80E-01	3.93E+00	1.15E+01
5-20'	< PAL		

CA129-SB01	
Depth	All Analytes (mg/kg)
0-18'	< PAL

CA129-SB10	
Depth	Arsenic (mg/kg)
0-3'	4.17E+00

CA129-SB04			
depth	TPH-ORO (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)
0-5'	1.20E+03	4.34E+00	< PAL
5-9'	< PAL	< PAL	7.07E+02
9-20'	< PAL		

LEGEND

- SOIL SAMPLE LOCATION
- PREVIOUS SOIL SAMPLE LOCATION (PARALLAX 2000)
- PREVIOUS SITE FEATURES
- APPROXIMATE SITE BOUNDARY
- FENCE
- < PAL — CONCENTRATIONS LESS THAN RESIDENTIAL HUMAN HEALTH AND ECOLOGICAL PROJECT ACTION LIMIT
- 2.90E-01 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH PROJECT ACTION LIMIT
- 3.10E+00 — CONCENTRATIONS EXCEEDING ECOLOGICAL PROJECT ACTION LIMIT
- 4.50E+00 — CONCENTRATIONS EXCEEDING RESIDENTIAL HUMAN HEALTH & ECOLOGICAL PROJECT ACTION LIMIT

ACRONYMS

B(a)p = benzo(a)pyrene
TPH-ORO = total petroleum hydrocarbons-oil range organics

NOTE:

All Samples Analyzed for:

- Total Petroleum Hydrocarbons- Diesel Range Organics
- Total Petroleum Hydrocarbons- Gasoline Range Organics
- Total Petroleum Hydrocarbons- Oil Range Organics
- Volatile Organic Compounds
- Semi-Volatile Organic Compounds
- Pesticides
- Resource Conservation and Recovery Act Metals
- Polychlorinated Biphenyls.

Shown Are Detections Above Residential Human Health, Ecological, or Residential Human Health and Ecological Project Action Limits (PALs).

N

20 10 0 20
SCALE IN FEET

SAMPLING RESULTS EXCEEDING SI PALs
WASTE OIL STORAGE FACILITY 244 AND LEACH FIELD SITE (TA/AS-C129) (SWMU129)
CANNON AIR FORCE BASE, NEW MEXICO

DRN. BY: ERB	DATE: 11/18/13	PROJECT NO.	FIG. NO.
CHK'D. BY: CSA	REVISION: 0	16170622	5-10

FIGURE 5-11
PRELIMINARY SITE CONCEPTUAL EXPOSURE MODEL
FORMER AEROSPACE GROUND EQUIPMENT (AGE) DISPATCH FACILITY SPILLS SITE (SS-501)

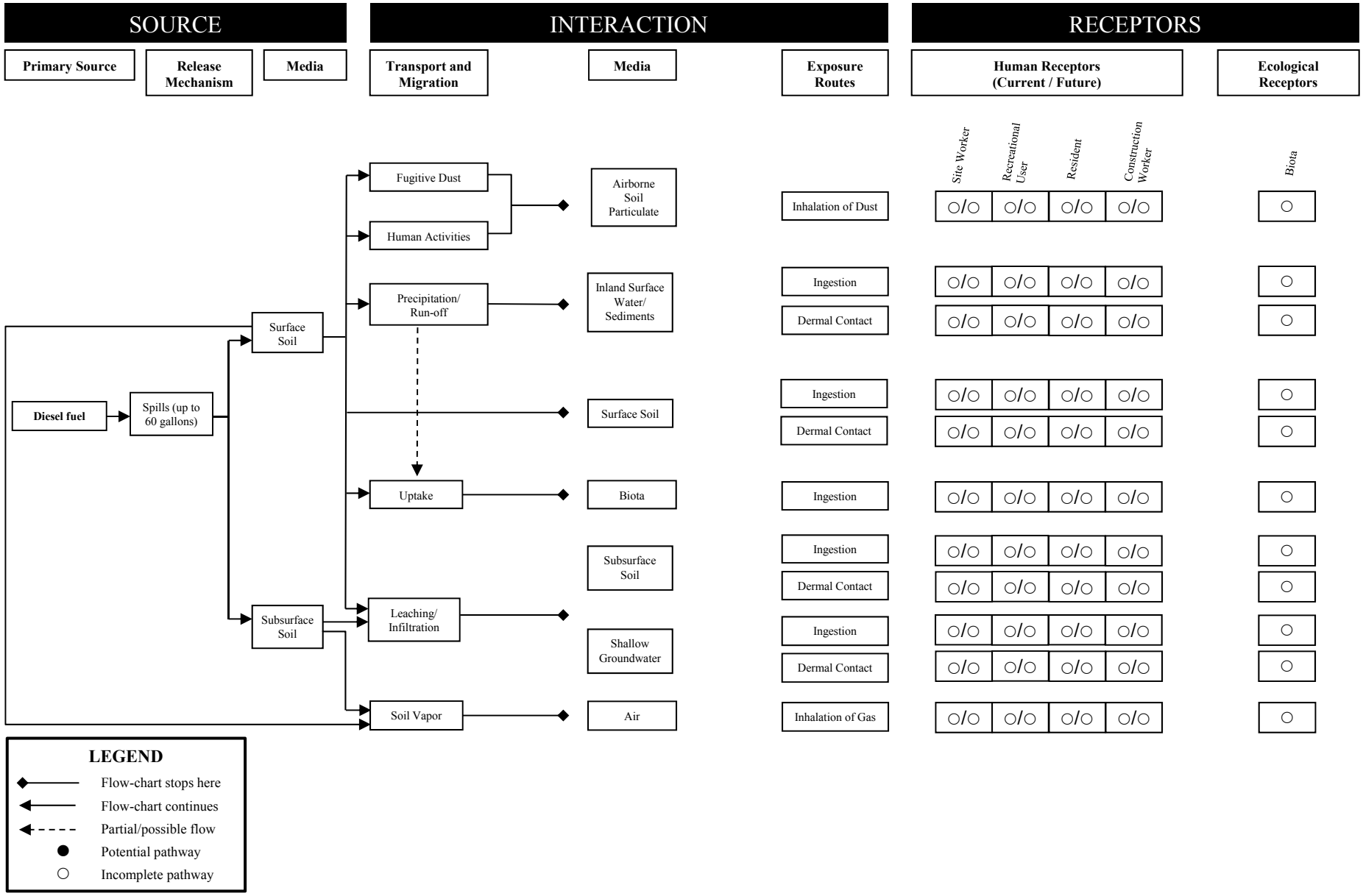


FIGURE 5-12
PRELIMINARY SITE CONCEPTUAL EXPOSURE MODEL
FORMER GAS STATION SITE (ST-502)

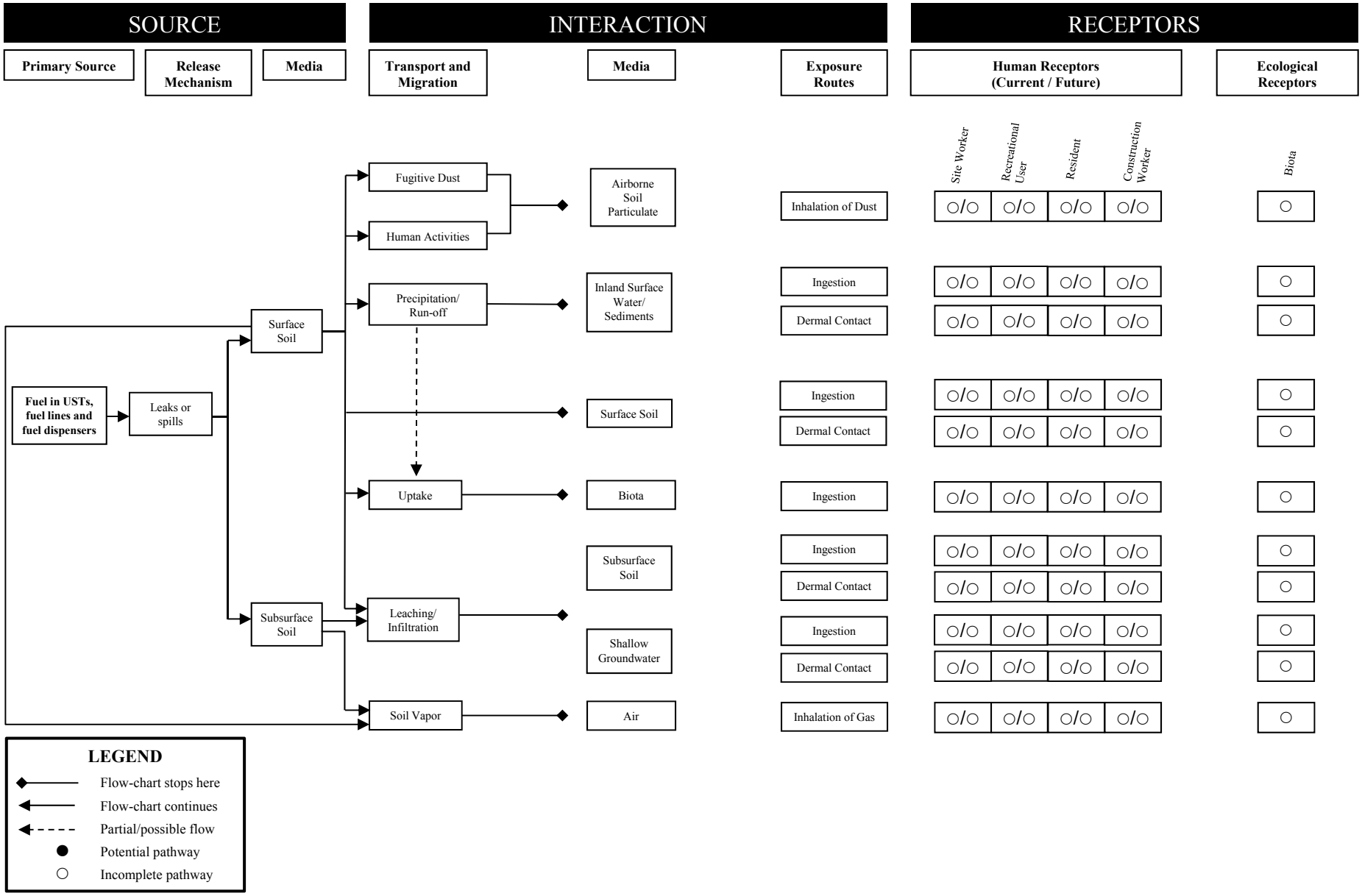


FIGURE 5-13
PRELIMINARY SITE CONCEPTUAL EXPOSURE MODEL
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-503)

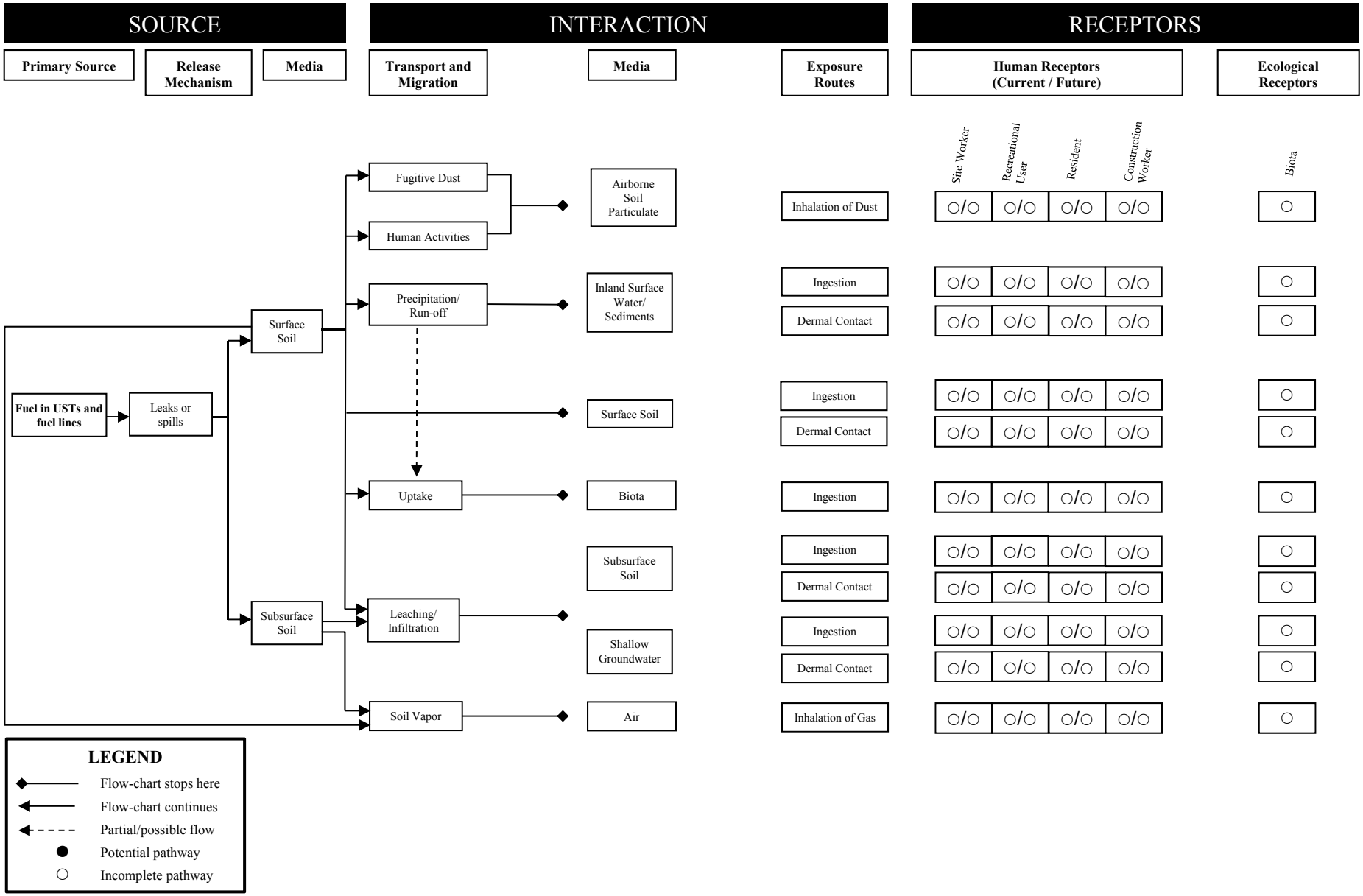


FIGURE 5-14
PRELIMINARY SITE CONCEPTUAL EXPOSURE MODEL
HOSPITAL ABANDONED UST SITE (ST-504)

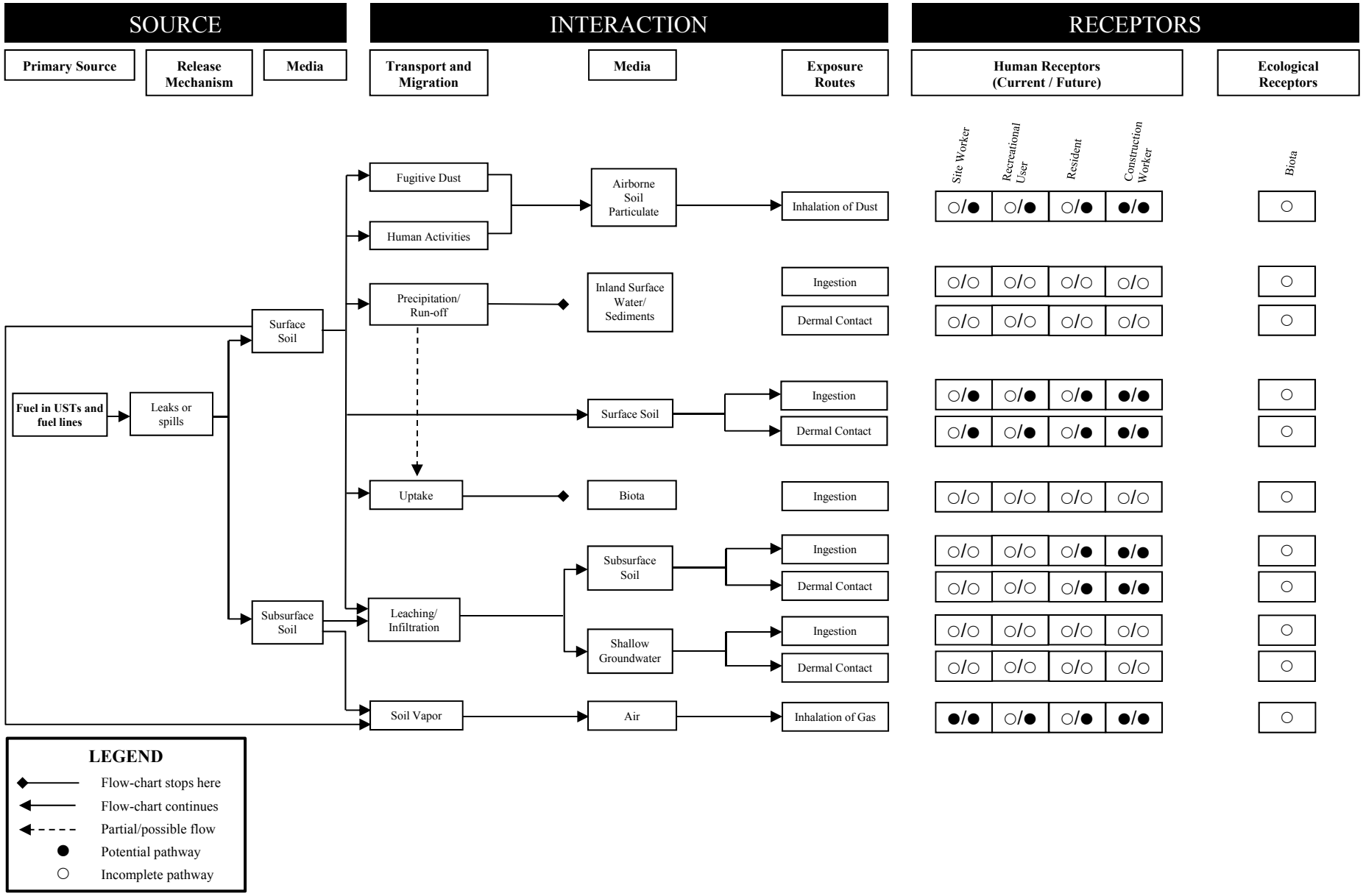


FIGURE 5-15
PRELIMINARY SITE CONCEPTUAL EXPOSURE MODEL
FLIGHTLINE GENERATOR USTs SITE (ST-505)

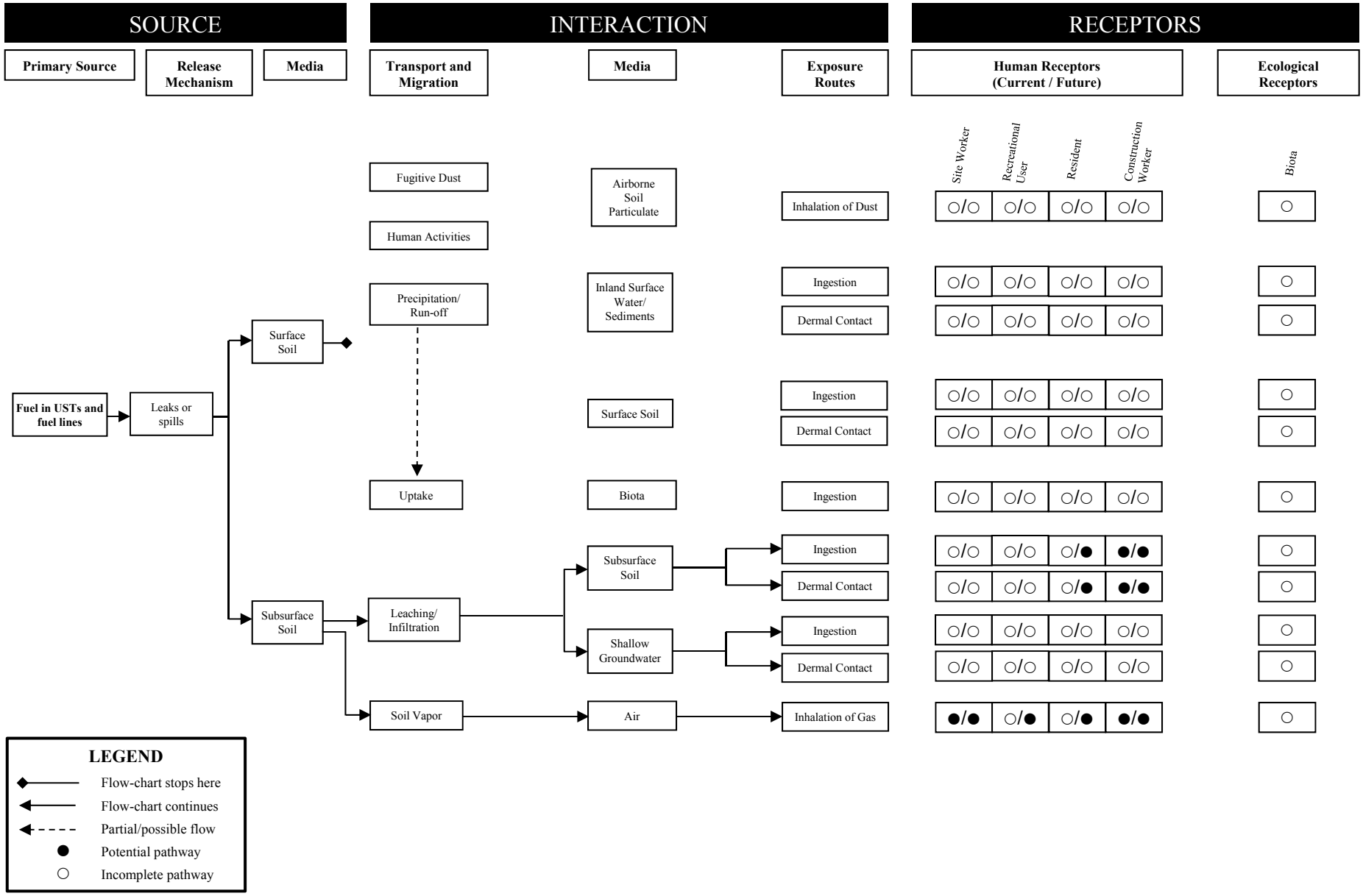


FIGURE 5-16
PRELIMINARY SITE CONCEPTUAL EXPOSURE MODEL
FORMER PETROLEUM, OIL AND LUBRICANTS (POL) YARD REFUELING AREA SITE (SS-507)

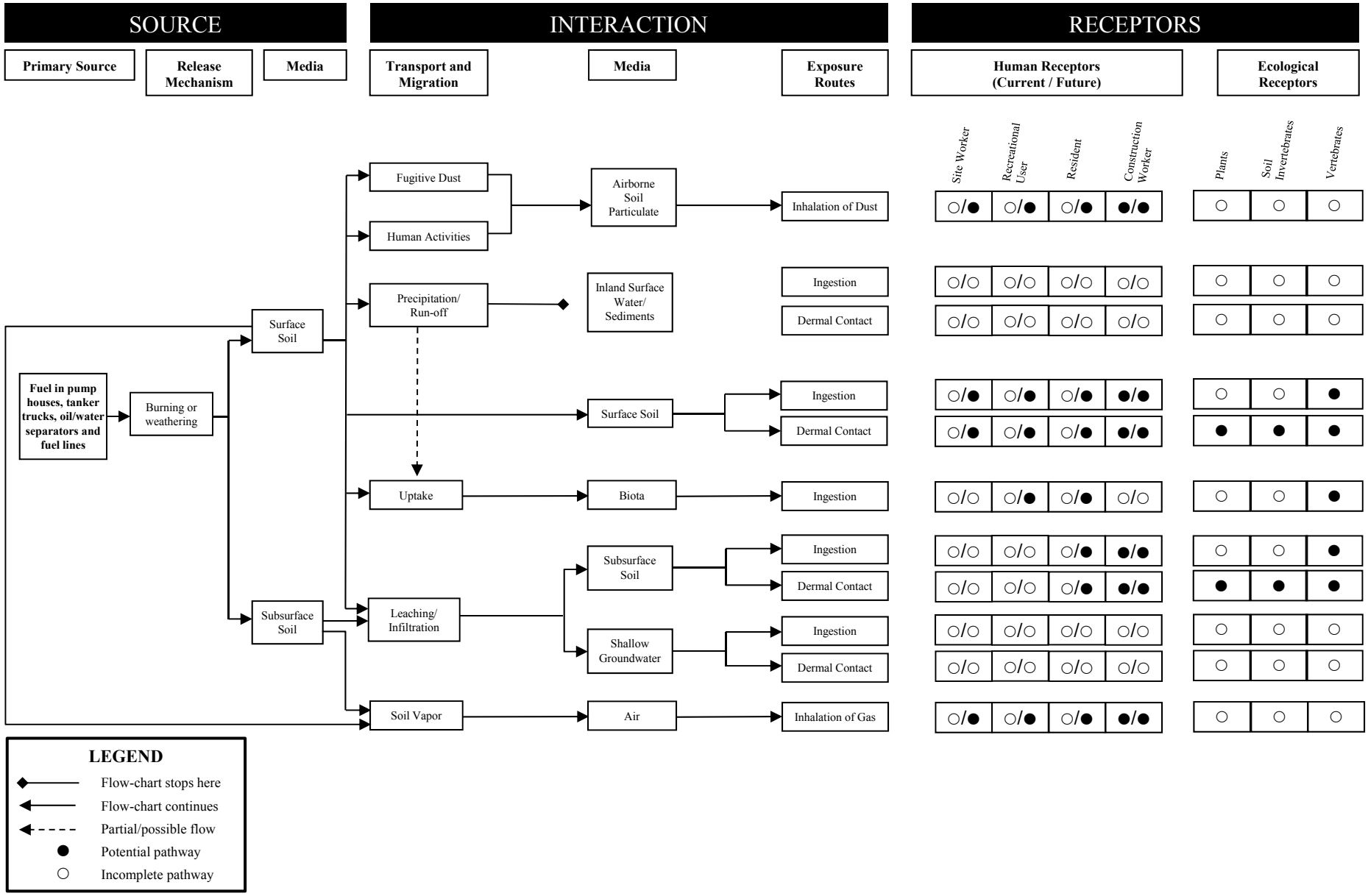


FIGURE 5-17
PRELIMINARY SITE CONCEPTUAL EXPOSURE MODEL
SURFACE DISPOSAL SITE (SD-508)

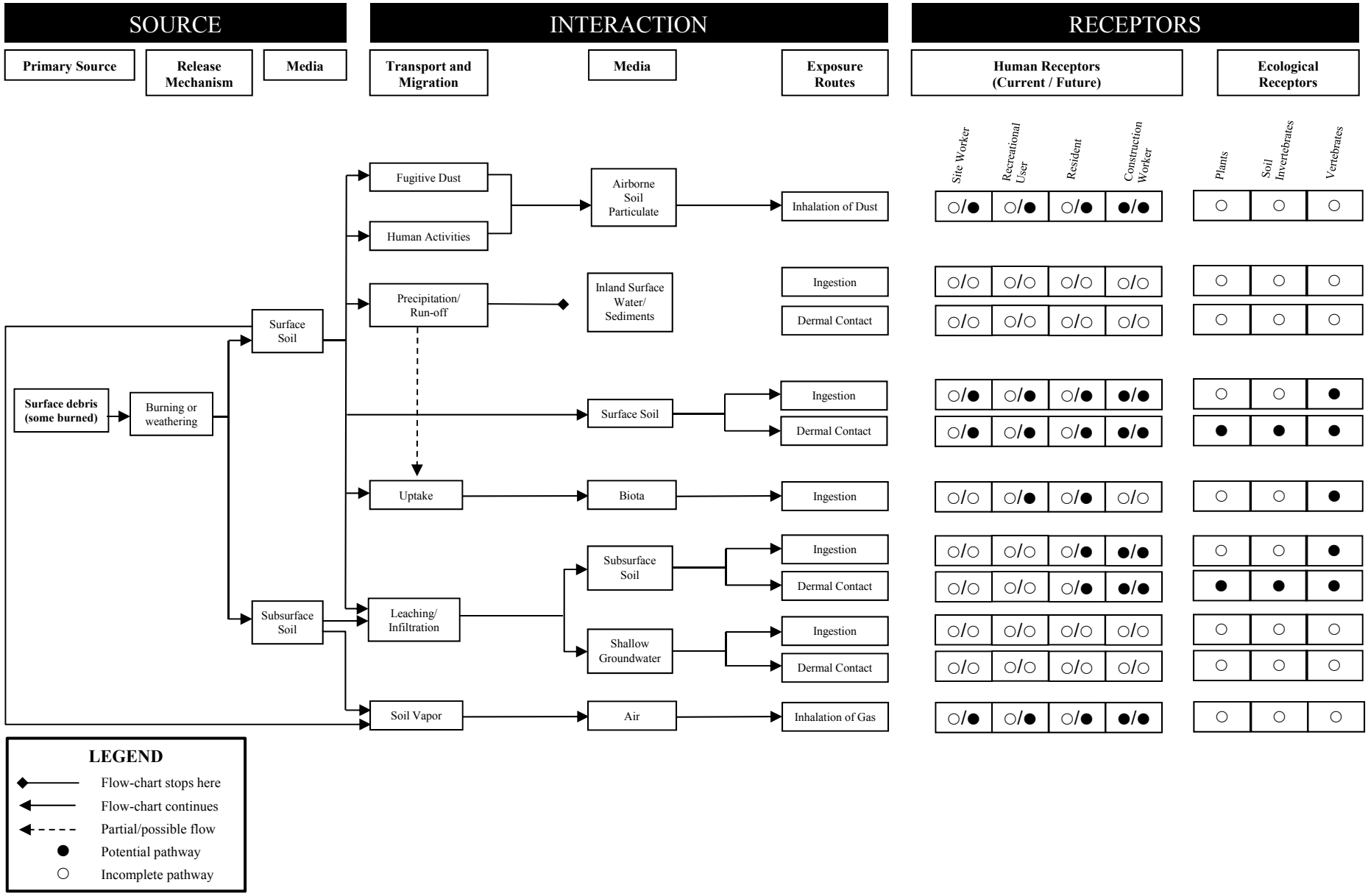
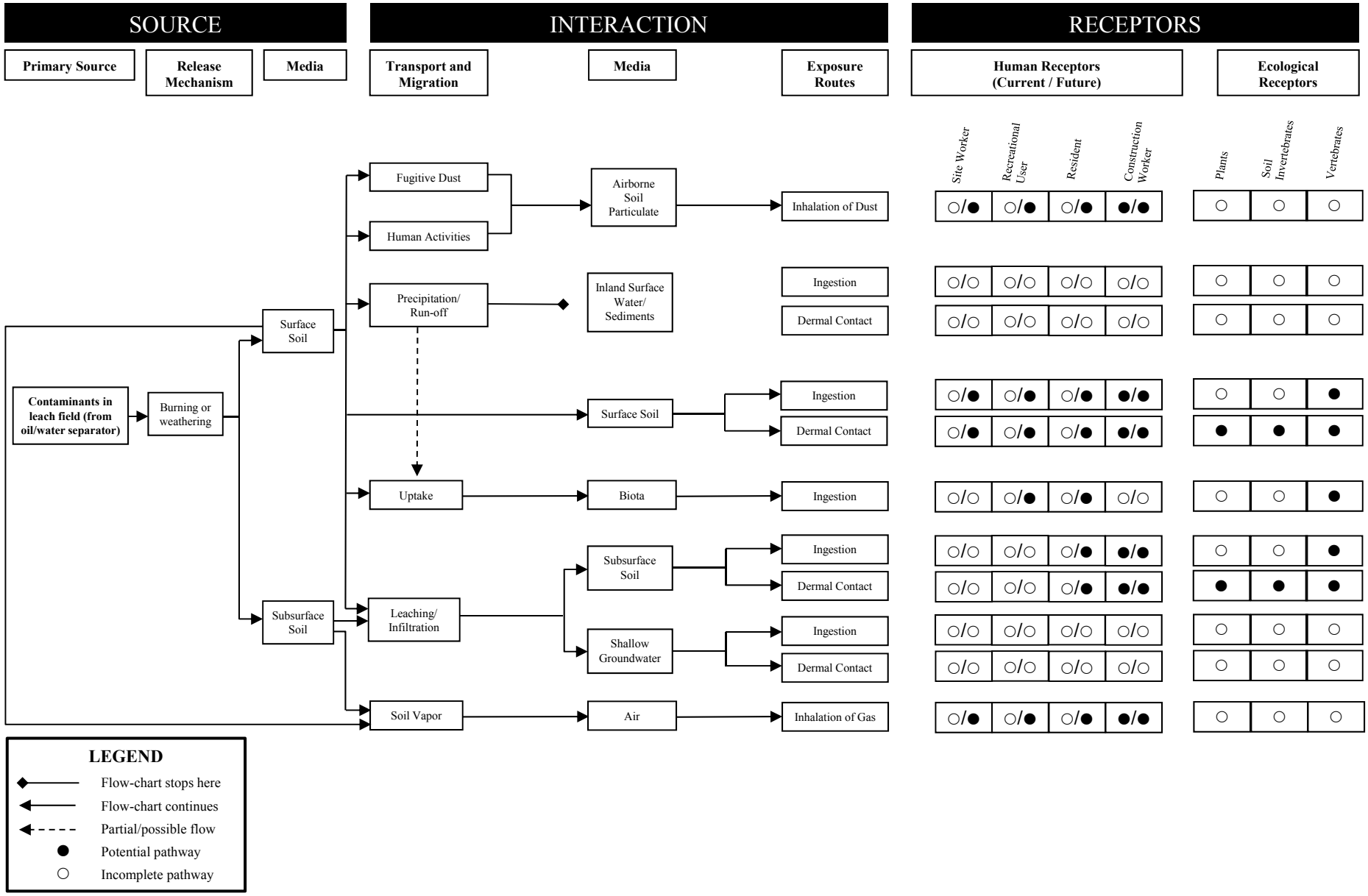


FIGURE 5-18
PRELIMINARY SITE CONCEPTUAL EXPOSURE MODEL
WASTE OIL STORAGE FACILITY 244 AND LEACH FIELD SITE (TA/AS-C129) (SWMU129)



6.1 FORMER AGE DISPATCH FACILITY SPILLS SITE (SS-C501)

6.1.1 Summary

The SI fieldwork included collection of 24 soil samples from 11 boring locations, total depths ranging from 4 to 15 feet bgs. Soil samples were analyzed for TPH-DRO, TPH-GRO, TPH-ORO, VOCs, SVOCs, RCRA metals, and PCBs. Arsenic was detected at concentrations exceeding established background concentrations and human health PALs at all 11 borings completed, and in 11 out of 24 samples collected with a maximum concentration of 5.24E+00 mg/kg. Arsenic was detected above the residential human health PAL and established surface soil background concentration in all samples collected directly below the asphalt pavement (1 to 5 feet bgs). Arsenic exceeded the residential human health PAL but not the established subsurface soil background concentration in only two samples collected from 5 to 10 feet bgs at SB05 and SB07. The two samples collected from 10 to 15 feet bgs did not exceed the residential human health PAL. No other analytes exceeded the residential human health PALs. Arsenic detections did not exceed the NMED industrial/occupational screening level. Additionally, the site qualifies for ecological exclusion and no ecological assessment is warranted.

6.1.2 Conclusions and Recommendations

Based on the low level arsenic detections (similar to background) and absence of other COPC that are related to suspect contamination, the presence of arsenic appears to be related to high background concentrations and is not indicative of a release. Therefore, no further evaluation of arsenic is warranted.

It is recommended that no further human health or ecological assessment be conducted at SS-C501. Based on the information documented in this report, site SS-C501 is recommended for Corrective Action Complete without Controls.

6.2 FORMER GAS STATION SITE (ST-C502)

6.2.1 Summary

The SI fieldwork included collection of 74 soil samples from 13 boring locations with total depths ranging from 4 to 40 feet bgs. Soil samples collected from the UST excavation area and the pump islands were analyzed for TPH-DRO, TPH-GRO, TPH-ORO, BTEX+naphthalene, site-related SVOCs, and lead. Soil samples collected from the vehicle service station area were analyzed for TPH-DRO, TPH-GRO, TPH-ORO, VOCs, SVOCs, RCRA metals, and PCBs. No analytes exceeded the residential human health PALs. The elevated TPH concentrations identified by previous investigations were no longer observed at ST-C502. The decrease in the TPH levels at ST-C502 can likely be attributed to natural attenuation of TPH in the soil. Additionally, the site qualifies for ecological exclusion and no ecological assessment is warranted.

6.2.2 Conclusions and Recommendations

No further human health or ecological assessment is warranted. Based on the information documented in this report, site ST-C502 is recommended for Corrective Action Complete without Controls.

6.3 BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-C503)

6.3.1 Summary

The SI fieldwork included collection of 33 soil samples from seven boring locations with total depths ranging from 5 to 25 feet bgs. Soil samples collected were analyzed for TPH-DRO, TPH-ORO, BTEX+naphthalene, and site-related SVOCs. No analytes exceeded the residential human health PALs. The elevated TPH concentrations identified by previous investigations were no longer observed at ST-C503. The decrease in the TPH levels at ST-C503 can likely be attributed to natural attenuation of TPH in the soil. Additionally, the site qualifies for ecological exclusion and no ecological assessment is warranted.

6.3.2 Conclusions and Recommendations

No further human health or ecological assessment is warranted. Based on the information documented in this report, site ST-C503 is recommended for Corrective Action Complete without Controls.

6.4 HOSPITAL ABANDONED UST SITE (ST-C504)

6.4.1 Summary

The SI fieldwork included collection of 164 soil samples from 16 boring locations with total depths ranging from 25 to 276 feet bgs. Soil samples were analyzed for TPH-DRO, TPH-ORO, BTEX+naphthalene, and site-related SVOCs. Site-related SVOCs were detected above the residential human health PAL only at SB08, from 0 to 5 feet bgs and from 10 to 15 feet bgs, however, samples collected from this boring at 15 to 20 feet bgs and 20 to 25 feet bgs were below the residential human health PALs. Site-related SVOCs did not exceed the NMED industrial/occupational screening levels. Based on these results, site-related SVOCs exceeding the residential human health PALs are localized in the immediate vicinity of the UST; therefore, the extent of site-related SVOCs exceeding the residential human health PALs in soil has been fully defined at site ST-C504.

The horizontal extent of TPH-DRO exceeding the residential human health PAL appears to be limited to the immediate vicinity of the abandoned UST, extending outward up to 15 feet in the north and northwest direction from the UST. The TPH-DRO release appears to have occurred primarily in the northern portions of the UST, likely near SB01. Based on the first phase of sampling completed, it was assumed SB01 had the highest probability of encountering the

highest concentrations at deeper depths. As a result, SB01 was further advanced as part of the second phase of sampling completed. Results at vertical profile boring SB01 indicated the release likely occurred nearby, and concentrations were consistent with other borings from 30 to 70 feet bgs; were the highest of any boring from 70 to 85 feet bgs; and consistently declined after 120 feet bgs. Samples collected at 180 and 190 feet bgs were only slightly above the residential human health PAL. Samples collected from 190 to 275 feet bgs did not exceed the residential human health PAL. A 2-foot layer of cemented sandstone encountered at 213 feet bgs, and a 2-foot layer of moist silt/silty sand at 265 feet bgs appears to be restricting vertical migration. Samples collected at 270 and 275 feet bgs were nondetect for TPH-DRO. TPH-DRO did exceed the NMED industrial/occupational screening levels at the site. Additionally, the site qualifies for ecological exclusion and no ecological assessment is warranted.

6.4.2 Conclusions and Recommendations

Based on results of this investigation, the extent of TPH-DRO and site-related SVOCs in soil has been fully defined at site ST-C504. A baseline human health risk assessment (with vapor intrusion analysis) should be completed using the current data to determine if the site poses an unacceptable risk to potential receptors. Additionally, vadose zone modeling should be completed using the current data to determine if there is a potential for groundwater to be impacted at the site in the future. Further evaluation should be conducted during the next phase of work (e.g., RFI).

6.5 FLIGHTLINE GENERATOR USTS SITE (ST-C505)

6.5.1 Summary

The SI fieldwork activities included the collection of 53 soil samples from 10 boring locations with total depths ranging from 24 to 30 feet bgs. Soil samples were analyzed for TPH-DRO, TPH-ORO, BTEX+naphthalene, and site-related SVOCs. Site-related SVOCs were detected at concentrations above the residential human health PAL in only one subsurface sample at SB07 from 20 to 25 feet bgs. No other analytes exceeded the residential human health PALs. Site-related SVOC detections did not exceed the NMED industrial/occupational screening levels. The elevated TPH concentrations identified by previous investigations were no longer observed at ST-C505. The decrease in the TPH levels at ST-C505 can likely be attributed to natural attenuation of TPH in the soil. Considering the overall data set collected at ST-C505, the sample collected at SB07 from 20 to 25 feet is an anomaly and is not consistent with other data collected at SB07. Additionally, the site qualifies for ecological exclusion and no ecological assessment is warranted.

6.5.2 Conclusions and Recommendations

Considering the overall data set collected at ST-C505, the sample collected at SB07 from 20 to 25 feet is an anomaly and is not consistent with other data collected at SB07 and recollection of the sample is warranted. If results of the resampling are less than the residential human health

PALs, then the site may be recommended for Corrective Action Complete without Controls. If the resampling confirms the previous results, additional soil sampling would be recommended below 25 feet at SB07 and to the east of SB07 to define the extent of site-related SVOCs exceeding the residential human health PALs. Additional sample collection and further evaluation should be conducted during the next phase of work (e.g., RFI).

6.6 FORMER POL YARD REFUELING AREA SITE (SS-C507)

6.6.1 Summary

The SI fieldwork activities included the collection of 37 surface soil and 197 subsurface soil samples collected from 74 boring locations with total depths ranging from 10 to 30 feet bgs. Soil samples were analyzed TPH-DRO, TPH-GRO, TPH-ORO, BTEX+naphthalene, site-related SVOCs, PCBs, and lead. Only site-related SVOCs and PCB-1260 were detected at concentrations exceeding their residential human health PALs. No other analytes exceeded the residential human health PALs. Overall, 19 surface (0 to 0.5 foot bgs) samples and one subsurface soil sample had detections of site-related SVOCs exceeding the residential human health PALs. Site-related SVOCs did not exceed the NMED industrial/occupational screening levels. PCB-1260 exceeded the residential human health in one surface soil sample collected at SS54. Sample location SS54 was located at a break in the concrete curb that receives runoff from the MOGAS unloading area and the JP4/JP8 dispensing islands. PCB-1260 detected at SS54 did not exceed the NMED industrial/occupational screening level.

Site-related SVOCs exceeding the residential human health PAL appears to be primarily limited to the surface soil (0 to 0.5 foot bgs), with only one subsurface soil sample (0.5 to 5 feet bgs) at SB03 (just west of the south fuel unloading area) exceeding the residential human health PAL. Site-related SVOCs exceeded the residential human heath PAL in surface soil at the following locations:

- Adjacent to the north and south fuel unloading ports; to the west of the fuel unloading areas where a reported JP-8 spill (approximately 400 gallons) previously occurred (followed by a soil removal action)
- In the southeastern portion of the oval area that receives runoff from the eastern and central portions of the site; in the open area to the south, between the two south gates, that receives runoff from the eastern and central portions of the site
- At one location (SS12) at the north end of the former OWS vault within the south portion of the oval
- At one location (SS21) just north of former Building 390 where a reported JP-8 spill (approximately 400 gallons) previously occurred (followed by a soil removal action)
- At one location (SS32) at the north end of the former OWS vault just north of the former MOAGS dispensing area

- At one location (SS60) north of the former MOGAS dispensing area

Previously identified areas of concern that did not have detections exceeding the residential human health PALs included:

- All paved areas (the truck unloading areas, JP4/JP8/diesel fuel dispensing islands, and south of MOGAS dispensing area)
- Within previously reported spill areas north of former building 390
- Under former buildings 390 and 392
- Under all previous above ground fuel lines and elbows throughout the site
- Around all underground fuel lines and elbows throughout the site

Potential ecological risks for SS-C507 were primarily from lead exposure. Elevated lead concentrations (1.50E+02 to 3.00E+02 mg/kg) were identified in a localized area of the site: the southeast corner between the roadway and the former OWS vault. The proximity of this location to a large expanse of uninhabitable concrete would likely reduce the number of ecological receptors frequenting this area. Therefore, potential for risk from exposure to lead at SS-C507 may be over-estimated.

6.6.2 Conclusions and Recommendations

Based on the relatively low levels of site-related SVOC detected at the site, and the fact that all other related chemical groups (TPH and BTEX) were detected at a much lower frequency throughout the site, it is likely that the site-related SVOC detections are not related to a release. Based on the presence of asphalt pavement throughout the site, the proximity of the detections in relation to the asphalt pavement, and the fact that concentrations in surface soil at the site are consistent with concentrations found in surface soils receiving runoff from asphalt pavement, the low level site-related SVOCs detected at the site are likely related to the asphalt pavement present throughout the site. Further evaluation of the low level site-related SVOCs is not recommended at SS-C507. Further evaluation of PCB-1260 should also be completed to define the lateral extent around the single detection exceeding the residential human health PALs at SS54. A baseline risk assessment should also be completed to determine if the site poses an unacceptable risk to potential receptors. Additional sample collection and further evaluation should be conducted during the next phase of work (e.g., RFI).

6.7 SURFACE DISPOSAL AREA SITE (SD-C508)

6.7.1 Summary

The SI fieldwork activities included the collection of nine surface soil and 24 subsurface soil samples from nine boring locations with total depths ranging from 9 to 20 feet bgs. Soil samples were analyzed for TPH-DRO, TPH-GRO, TPH-ORO, VOCs, SVOCs, pesticides, RCRA metals,

PCBs, explosives, and dioxins/furans. Site-related SVOCs were detected above the residential human health PAL in only one surface sample at SS08 from 0 to 0.5 foot bgs. Arsenic was detected above the residential human health PAL (maximum concentration 5.59E+00 mg/kg) and the established background concentration (3.60E+00 mg/kg for surface soil) in surface soil (0 to 0.5 foot bgs) at three borings (SS03, SS05, and SS08) in the eastern portion of the site, and in subsurface soil at two borings (SB04 at 9 feet bgs and SB07 at 5 feet bgs) in the western portion of the site. Arsenic was not detected at concentrations exceeding the residential human health PAL at borings SS/SB02 and SS/SB06 in the northern portion of the site, or in boring SS/SB09 in the southern portion of the site. No other analytes exceeded the residential human health PALs. Arsenic and site-related SVOC detections did not exceed the NMED industrial/ occupational screening levels.

A comparison of the TCDD equivalents of 1.31E-05 mg/kg to the TCDD human health screening value of 4.50E-05 mg/kg indicated that dioxins and furans are not a human health concern at SD-C508.

Potential ecological risks for SD-C508 were primarily attributed to dioxin and furan exposure. Further ecological evaluation may be warranted for SD-C508.

6.7.2 Conclusions and Recommendations

Based on the low level arsenic detections (similar to background) and low frequency of other COPC that are related to suspect contamination, the presence of arsenic appears to be related to high background concentrations and is not indicative of a release. Therefore, no further evaluation of arsenic is warranted.

It is recommended that additional soil samples be collected in the vicinity of the single site-related SVOC detection exceeding the residential human health PAL to further define the lateral extent. A baseline risk assessment should also be completed to determine if the site poses an unacceptable risk to potential receptors. Additional sample collection and further evaluation should be conducted during the next phase of work (e.g., RFI).

6.8 WASTE OIL STORAGE FACILITY 244 AND LEACH FIELD SITE (TA/AS-C129) (SWMU129)

6.8.1 Summary

The SI fieldwork activities included the collection of 34 soil samples from 10 boring locations with total depths ranging from 4 to 25 feet bgs. Soil samples were analyzed for TPH-DRO, TPH-GRO, TPH-ORO, VOCs, SVOCs, RCRA metals, PCBs, and pesticides. Benzo(a)pyrene exceeded the residential human health PAL in one sample at SB05 (0 to 5 feet bgs). TPH-ORO exceeded the residential human health PAL in one sample at SB04 (0 to 5 feet bgs). Arsenic exceeded the residential human health PAL (maximum concentration 4.34E+00 mg/kg) and the established background concentration (3.60E+00 mg/kg for surface soil) in soil samples

collected between 0 and 5 feet bgs at nine out of 10 borings. Arsenic did not exceed the residential human health PAL in any samples collected below 5 feet bgs. No other analytes exceeded the residential human health PALs. Benzo(a)pyrene, TPH-ORO, and arsenic detections that exceeded their residential human health PALs at the site did not exceed the NMED industrial/occupational screening levels.

Concentrations of chemicals at this site appear to be sufficiently low to conclude that potential ecological risk are inconsequential and no further ecological evaluation is warranted for TA/AS-C129 (SWMU129).

6.8.2 Conclusions and Recommendations

Based on the low level arsenic detections (similar to background) and low frequency of other COPC that are related to suspect contamination, the presence of arsenic appears to be related to high background concentrations and is not indicative of a release. Therefore, no further evaluation of arsenic is warranted.

It is recommended that additional soil samples be collected directly adjacent to the single detections of benzo(a)pyrene and TPH-ORO that exceeded the residential human health PALs to further define the lateral extent near the end of the leach field. A baseline risk assessment should also be completed to determine if the site poses an unacceptable risk to potential receptors. Additional sample collection and further evaluation should be conducted during the next phase of work (e.g., RFI).

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Utility Clearances

1/28/13 locate comm (88)

BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST

(See Instructions on Reverse)

DATE PREPARED (ddmmyy): 17 01 13

1. Clearance is requested to proceed with work at: CC-C502 (Former AGE dispatch facility, NE of Bldg 186 Lat 34.394107 Long 103.320297)
On Work Order No 4PA E08 Contract No. FA8903-08-D-8783 involving excavation or utility disturbance per attached sketch. This area: [ ] has [X] has not been staked or clearly marked.

2. TYPE OF FACILITY/ WORK INVOLVED

	A. PAVEMENT		D. FIRE DETECTION & PROTECTION SYSTEM						G. AIRCRAFT OR VEHICULAR TRAFFIC FLOW
	B. DRAINAGE SYSTEM		E. UTILITY		OVERHEAD		UNDERGROUND		H. SECURITY
	C. RAILROAD TRACKS		F. COMM		OVERHEAD		UNDERGROUND		I. OTHER

3. DATE CLEARANCE REQUIRED

4. DATE OF CLEARANCE

5. SIGNATURE OF REQUESTING OFFICIAL

6. TELEPHONE NO.

7. ORGANIZATION

8. BASE CIVIL ENGINEERING — ORGANIZATION	REMARKS (Use Reverse for additional comments)	REVIEWER'S NAME & INITIALS
A. ELECTRICAL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-4371 - Call clearance and utility location	Clear T. Pa[illegible]
B. GAS DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
C. WATER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
D. SEWER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	call 48 hrs prior for large parking area clear for Duane
E. IRRIGATION SYSTEMS	HAND DIG ONLY (Unless waived by CEO) CEO Approved _____	
F. POL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-6742 - Call clearance and utility location	clear
G. ENVIRONMENTAL	Contact 48 hr prior to clearance requirement 575-784-1092 - Call clearance and utility location	OK John Redman 17 Jan 13
H. PAVEMENTS / GROUNDS	Contact 48 hr prior to clearance requirement 575-784-4383 - Call clearance and utility location	OK Michael A. Gabelli 17 Jan 13 17 JAN 13
I. FIRE PROTECTION B-158	Contact 48 hr prior to clearance requirement 575-784-2576 - Call clearance and utility location	23 Jan 13
J. EMCS / HVAC	Contact 48 hr prior to clearance requirement 575-784-1195 - Call clearance and utility location	clear T. Pa[illegible]
K. GEOBASE OFFICE CALL with 24 hrs of digging	Contact 48 hr prior to clearance requirement 575-784-1610 - Call to update maps or utility tabs	TSgt Hou[illegible]
L. CATHODIC PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2209 - Call to update maps or utility tabs	clear T. Pa[illegible]
9. MAINTENANCE OPERATIONS CENTER B-164	Contact 48 hr prior to clearance requirement 575-784-2135 - Call clearance and utility location	Holly Estle
10. SECURITY FORCES 0.575	Contact 48 hr prior to clearance requirement 575-784-4111 - Call clearance and utility location	TSgt Gonzalez 24 Jan 13
11. SAFETY B.1	Contact 48 hr prior to clearance requirement 575-784-2811 - Call clearance and utility location	TSgt [illegible]
12. COMMUNICATIONS Good for 30 days B.10	Contact 48 hr prior to clearance requirement 575-784-6622 - Call clearance and utility location	Cable in area will spot. MK 25 Jan 13
13. BASE OPERATIONS B.135	Contact 48 hr prior to clearance requirement 575-784-2801 - Call clearance and utility location	S.O. [illegible] 29 Jan 2013
14. SCX B-10	Contact 48 hr prior to clearance requirement 575-784-6103 - Call clearance and utility location	Cable In Area TSgt Frank Royo / marked on Fri 1/25 - Michael Keith
15. COMMERCIAL UTILITY COMPANY		
X TELEPHONE	Contact 48 hr prior to clearance requirement 1-800-321-2537 - Note date & request number on the reverse of this form that will be provided by the company.	Called 1/25/13 Shea # 2013 04 3028
X CABLE		
16. OTHER (Specify)		

17. REQUESTED CLEARANCE [X] APPROVED [ ] DISAPPROVED

18. TYPED NAME AND SIGNATURE OF APPROVING OFFICER (Chief of Operations Flight) Gary Gabowski / K. CABLE

18a. DATE SIGNED (ddmmyy): 28 JAN 2013

INSTRUCTIONS

The BCE work clearance request is used for any work (contract or in-house) that may disrupt aircraft or vehicular flow, base utility services, protection provided by fire and intrusion alarm system, or routine activities of the installation. This form is used to coordinate the required work with key base activities and keep customer inconvenience to a minimum. It is also used to identify potentially hazardous work conditions in an attempt to prevent accidents. The work clearance request is processed just prior to the start of work. If delays are encountered and the conditions at the job site change (or may have changed) this work clearance request must be reprocessed

18. Remarks. (*This section must describe specific precautionary measure to be taken before and during work accomplishment. Specific comments concerning the approved method of excavation, hand or powered equipment should be listed)*

1. Contractor will not proceed with any work until clearance has been coordinated as indicated by remarks that have been provided.

2. Any drawings provided indicate the APPROXIMATE location of the work area.

3. Contractor shall contact and give notice to all listed organizations by calling the phone numbers as listed in the remarks section next to each organization.

   a. It is very important all clearance requests are made and understood by the contractor. The contractor shall log all calls and activities made of each organization as listed on the AF 103. The log information will be placed on page 3 of the AF 103. Each entry will be kept in a numbered, sequential order by date and organization. Note: If additional pages are required for the clearance log record is to be attached to the original AF103.

   b. If clearance is not required in the location of this request, the contractor will note the reviewers name and date/time the organization was contacted and indicate "No Action Required".

   c. If clearance is required by the organization the contractor will coordinated a site meeting with the reviewers representing that organization. The reviewer will physically spot the clearance issue and/or mark the location. The contractor will then have the reviewer fill in his name and initials in the Reviewers Name And Initials column on page 1 for that organization. The contractor will also log on page 3 of the AF103, the meeting, date/time, persons name, and action taken.

4. The contractor will notify the C.O.R. or Project Manager (Box 5) if there are any questions or concerns to ensure proper coordination of this Work Clearance Request.

5. The contractor or his agent will maintain this clearance on the site and make it available for review by any GOV representative when requested.

6. Notify the Fire Department Control Center @ 784-2578 if any utilities are damaged after normal work hours.

Contractor Representative Signature _____ Date 28 Jan 2013

BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST

(See Instructions on Reverse)

DATE PREPARED (ddmmyy): 17 01 13

1. Clearance is requested to proceed with work at: ST-C502 (Cannon Federal Credit Union parking lot, west, southwest corner of Bldg + parking lot. Lat 34.397842 Long: 103.321036)

On Work Order No _____ Contract No. FA8903-08-D-8783 involving excavation or utility disturbance per attached sketch. This area: [✓] has [ ] has not been staked or clearly marked.

2. TYPE OF FACILITY/ WORK INVOLVED

	A. PAVEMENT		D. FIRE DETECTION & PROTECTION SYSTEM					G. AIRCRAFT OR VEHICULAR TRAFFIC FLOW
	B. DRAINAGE SYSTEM		E. UTILITY		OVERHEAD		UNDERGROUND	H. SECURITY
	C. RAILROAD TRACKS		F. COMM		OVERHEAD		UNDERGROUND	I. OTHER

3. DATE CLEARANCE REQUIRED

4. DATE OF CLEARANCE

5. SIGNATURE OF REQUESTING OFFICIAL

6. TELEPHONE NO.

7. ORGANIZATION

8. BASE CIVIL ENGINEERING

ORGANIZATION	REMARKS *(Use Reverse for additional comments)*	REVIEWER'S NAME & INITIALS
A. ELECTRICAL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-4371 - Call clearance and utility location	Call before dig
B. GAS DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
C. WATER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
D. SEWER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
E. IRRIGATION SYSTEMS	HAND DIG ONLY (Unless waived by CEO) CEO Approved _____	Call 48 hrs prior marked locations Clear
F. POL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-6742 - Call clearance and utility location	Clear
G. ENVIRONMENTAL	Contact 48 hr prior to clearance requirement 575-784-1092 - Call clearance and utility location	17 Jan 13
H. PAVEMENTS / GROUNDS	Contact 48 hr prior to clearance requirement 575-784-4383 - Call clearance and utility location	OK 17 JAN 13
I. FIRE PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2578 - Call clearance and utility location	OK 17 Jan 13
J. EMCS / HVAC	Contact 48 hr prior to clearance requirement 575-784-1195 - Call clearance and utility location	Clear T. Powers
K. GEOBASE OFFICE CALL within 24 hrs of digging	Contact 48 hr prior to clearance requirement 575-784-1610 - Call to update maps or utility tabs	TSgt Smith Jr
L. CATHODIC PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2209 - Call to update maps or utility tabs	Clear T. Powers
9. MAINTENANCE OPERATIONS CENTER B-164	Contact 48 hr prior to clearance requirement 575-784-2135 - Call clearance and utility location	Ashley E Hale
10. SECURITY FORCES 0.575	Contact 48 hr prior to clearance requirement 575-784-4111 - Call clearance and utility location	TSgt Tyrone Thompson 24 Jan 13
11. SAFETY B.1	Contact 48 hr prior to clearance requirement 575-784-2811 - Call clearance and utility location	TSgt Gary Pick 24 Jan 13
12. COMMUNICATIONS B.10	Contact 48 hr prior to clearance requirement 575-784-6622 - Call clearance and utility location	MK No cable in area 25 Jan 13
13. BASE OPERATIONS B.135	Contact 48 hr prior to clearance requirement 575-784-2801 - Call clearance and utility location	A.O. Hale 29 Jan 2013
14. SCX B-10	Contact 48 hr prior to clearance requirement 575-784-6103 - Call clearance and utility location	No cable in the Area TSgt Frank Troyer
15. COMMERCIAL UTILITY COMPANY		
X TELEPHONE	Contact 48 hr prior to clearance requirement 1- 800 -321-2537 - Note date & request number on the reverse of this form that will be provided by the company.	Called 1/24/13 Clear 1435 2013042671
X CABLE		
16. OTHER *(Specify)*		

17. REQUESTED CLEARANCE [X] APPROVED [ ] DISAPPROVED

18. TYPED NAME AND SIGNATURE OF APPROVING OFFICER *(Chief of Operations Flight)* Y K. CABLE

18a. DATE SIGNED (ddmmyy): 28 JAN 2013

AF FORM 103v4 ----- Modified for Cannon AFB

PREVIOUS EDITIONS ARE OBSOLETE

INSTRUCTIONS

The BCE work clearance request is used for any work (contract or in-house) that may disrupt aircraft or vehicular flow, base utility services, protection provided by fire and intrusion alarm system, or routine activities of the installation. This form is used to coordinate the required work with key base activities and keep customer inconvenience to a minimum. It is also used to identify potentially hazardous work conditions in an attempt to prevent accidents. The work clearance request is processed just prior to the start of work. If delays are encountered and the conditions at the job site change (or may have changed) this work clearance request must be reprocessed

18. Remarks. (*This section must describe specific precautionary measure to be taken before and during work accomplishment. Specific comments concerning the approved method of excavation, hand or powered equipment should be listed)*

1. Contractor will not proceed with any work until clearance has been coordinated as indicated by remarks that have been provided.

2. Any drawings provided indicate the APPROXIMATE location of the work area.

3. Contractor shall contact and give notice to all listed organizations by calling the phone numbers as listed in the remarks section next to each organization.

   a. It is very important all clearance requests are made and understood by the contractor. The contractor shall log all calls and activities made of each organization as listed on the AF 103. The log information will be placed on page 3 of the AF 103. Each entry will be kept in a numbered, sequential order by date and organization. Note: If additional pages are required for the clearance log record is to be attached to the original AF103.

   b. If clearance is not required in the location of this request, the contractor will note the reviewers name and date/time the organization was contacted and indicate "No Action Required".

   c. If clearance is required by the organization the contractor will coordinated a site meeting with the reviewers representing that organization. The reviewer will physically spot the clearance issue and/or mark the location. The contractor will then have the reviewer fill in his name and initials in the Reviewers Name And Initials column on page 1 for that organization. The contractor will also log on page 3 of the AF103, the meeting, date/time, persons name, and action taken.

4. The contractor will notify the C.O.R. or Project Manager (Box 5) if there are any questions or concerns to ensure proper coordination of this Work Clearance Request.

5. The contractor or his agent will maintain this clearance on the site and make it available for review by any GOV representative when requested.

6. Notify the Fire Department Control Center @ 784-2578 if any utilities are damaged after normal work hours.

Contractor Representative Signature _____ Date 28 Jan 2013

1/28/13
locate
wman

BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST

(See Instructions on Reverse)

DATE PREPARED (ddmmyy): 17 01 13

1. Clearance is requested to proceed with work at: ST-C503 (South of Bldg 600, former operations generator UST; Lat 34.392729 Long 103.326025)
On Work Order No _____ Contract No. FA4903-08-D-0785 involving excavation or utility disturbance per attached sketch. This area: [✓] has [ ] has not been staked or clearly marked.

2. TYPE OF FACILITY/ WORK INVOLVED

	A. PAVEMENT		D. FIRE DETECTION & PROTECTION SYSTEM						G. AIRCRAFT OR VEHICULAR TRAFFIC FLOW
	B. DRAINAGE SYSTEM		E. UTILITY		OVERHEAD		UNDERGROUND		H. SECURITY
	C. RAILROAD TRACKS		F. COMM		OVERHEAD		UNDERGROUND		I. OTHER

3. DATE CLEARANCE REQUIRED

4. DATE OF CLEARANCE

5. SIGNATURE OF REQUESTING OFFICIAL

6. TELEPHONE NO.

7. ORGANIZATION

8. BASE CIVIL ENGINEERING

ORGANIZATION	REMARKS (Use Reverse for additional comments)	REVIEWER'S NAME & INITIALS
A. ELECTRICAL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-4371 - Call clearance and utility location	Call before Jt.
B. GAS DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
C. WATER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
D. SEWER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
E. IRRIGATION SYSTEMS	HAND DIG ONLY (Unless waived by CEO) CEO Approved _____	
F. POL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-6742 - Call clearance and utility location	
G. ENVIRONMENTAL	Contact 48 hr prior to clearance requirement 575-784-1092 - Call clearance and utility location	
H. PAVEMENTS / GROUNDS	Contact 48 hr prior to clearance requirement 575-784-4383 - Call clearance and utility location	
I. FIRE PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2576 - Call clearance and utility location	
J. EMCS / HVAC	Contact 48 hr prior to clearance requirement 575-784-1195 - Call clearance and utility location	
K. GEOBASE OFFICE CALL within 24 hrs of digging	Contact 48 hr prior to clearance requirement 575-784-1610 - Call to update maps or utility tabs	
L. CATHODIC PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2209 - Call to update maps or utility tabs	
9. MAINTENANCE OPERATIONS CENTER	Contact 48 hr prior to clearance requirement 575-784-2135 - Call clearance and utility location	
10. SECURITY FORCES 0.575	Contact 48 hr prior to clearance requirement 575-784-4111 - Call clearance and utility location	
11. SAFETY 0.1	Contact 48 hr prior to clearance requirement 575-784-2811 - Call clearance and utility location	
12. COMMUNICATIONS Good for 30 days 0.10	Contact 48 hr prior to clearance requirement 575-784-6622 - Call clearance and utility location	Cable in area will spot. 25 Jan 13
13. BASE OPERATIONS 0.135	Contact 48 hr prior to clearance requirement 575-784-2601 - Call clearance and utility location	
14. SCX	Contact 48 hr prior to clearance requirement 575-784-6103 - Call clearance and utility location	Cable in Area TSgt Frank Moya
15. COMMERCIAL UTILITY COMPANY		
X TELEPHONE	Contact 48 hr prior to clearance requirement 1-800-321-2537 - Note date & request number on the reverse of this form that will be provided by the company.	Called 1/28/13 Sheen # 20130430 14
X CABLE		
16. OTHER (Specify)		

clear per Tommy Harlow 1-25-13

call 48 hrs prior located - cleared 28 Jan 13

OK John Reberman 17 Jan 13

mckhtar Galalla 17 Jan 13

OK 17 Jan 13

25 Jan 13

Call before dig

TSgt Hosting

Cleo S. T. Pound

17. REQUESTED CLEARANCE [✓] APPROVED [ ] DISAPPROVED

18. TYPED NAME AND SIGNATURE OF APPROVING OFFICER (Chief of Operations Flight) HARRY ZALEWSKI for K. CABLE

18a. DATE SIGNED (ddmmyy): 28 JAN 2013

INSTRUCTIONS

The BCE work clearance request is used for any work (contract or in-house) that may disrupt aircraft or vehicular flow, base utility services, protection provided by fire and intrusion alarm system, or routine activities of the installation. This form is used to coordinate the required work with key base activities and keep customer inconvenience to a minimum. It is also used to identify potentially hazardous work conditions in an attempt to prevent accidents. The work clearance request is processed just prior to the start of work. If delays are encountered and the conditions at the job site change (or may have changed) this work clearance request must be reprocessed

18. Remarks. (*This section must describe specific precautionary measure to be taken before and during work accomplishment. Specific comments concerning the approved method of excavation, hand or powered equipment should be listed)*

1. Contractor will not proceed with any work until clearance has been coordinated as indicated by remarks that have been provided.

2. Any drawings provided indicate the APPROXIMATE location of the work area.

3. Contractor shall contact and give notice to all listed organizations by calling the phone numbers as listed in the remarks section next to each organization.

   a. It is very important all clearance requests are made and understood by the contractor. The contractor shall log all calls and activities made of each organization as listed on the AF 103. The log information will be placed on page 3 of the AF 103. Each entry will be kept in a numbered, sequential order by date and organization. Note: If additional pages are required for the clearance log record is to be attached to the original AF103.

   b. If clearance is not required in the location of this request, the contractor will note the reviewers name and date/time the organization was contacted and indicate "No Action Required".

   c. If clearance is required by the organization the contractor will coordinated a site meeting with the reviewers representing that organization. The reviewer will physically spot the clearance issue and/or mark the location. The contractor will then have the reviewer fill in his name and initials in the Reviewers Name And Initials column on page 1 for that organization. The contractor will also log on page 3 of the AF103, the meeting, date/time, persons name, and action taken.

4. The contractor will notify the C.O.R. or Project Manager (Box 5) if there are any questions or concerns to ensure proper coordination of this Work Clearance Request.

5. The contractor or his agent will maintain this clearance on the site and make it available for review by any GOV representative when requested.

6. Notify the Fire Department Control Center @ 784-2578 if any utilities are damaged after normal work hours.

Contractor Representative Signature _____ Date 17 Jan 2013

BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST

(See Instructions on Reverse)

DATE PREPARED (ddmmyy): 17 01 13

1. Clearance is requested to proceed with work at: ST-C504 (Northwest corner of hospital; Bldg 1400) Lat: 34.401004 Long: -103.327601
On Work Order No 48AE08 Contract No. FA8903-08-D-8783 involving excavation or utility disturbance per attached sketch. This area: [✓] has [X] has not been staked or clearly marked.

2. TYPE OF FACILITY/ WORK INVOLVED

	A. PAVEMENT		D. FIRE DETECTION & PROTECTION SYSTEM						G. AIRCRAFT OR VEHICULAR TRAFFIC FLOW
	B. DRAINAGE SYSTEM		E. UTILITY		OVERHEAD		UNDERGROUND		H. SECURITY
	C. RAILROAD TRACKS		F. COMM		OVERHEAD		UNDERGROUND		I. OTHER

3. DATE CLEARANCE REQUIRED

4. DATE OF CLEARANCE

5. SIGNATURE OF REQUESTING OFFICIAL

6. TELEPHONE NO.

7. ORGANIZATION

8. BASE CIVIL ENGINEERING — ORGANIZATION	REMARKS *(Use Reverse for additional comments)*	REVIEWER'S NAME & INITIALS
A. ELECTRICAL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-4371 - Call clearance and utility location	Call before dig
B. GAS DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	Call 48 hr prior
C. WATER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
D. SEWER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
E. IRRIGATION SYSTEMS	HAND DIG ONLY (Unless waived by CEO) CEO Approved _____	
F. POL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-6742 - Call clearance and utility location	Clear Grubbs
G. ENVIRONMENTAL	Contact 48 hr prior to clearance requirement 575-784-1092 - Call clearance and utility location	OK John Robinson 17 Jan 13
H. PAVEMENTS / GROUNDS	Contact 48 hr prior to clearance requirement 575-784-4383 - Call clearance and utility location	midghtar Gapalh 17 Jan 13 ok 17 JAN 13
I. FIRE PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2578 - Call clearance and utility location	21 JAN 13
J. EMCS / HVAC	Contact 48 hr prior to clearance requirement 575-784-1195 - Call clearance and utility location	clear T. Pacen
K. GEOBASE OFFICE CALL within 24 hrs of digging	Contact 48 hr prior to clearance requirement 575-784-1610 - Call to update maps or utility tabs	TSgt Hoard
L. CATHODIC PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2209 - Call to update maps or utility tabs	Clear T. Pacen
9. MAINTENANCE OPERATIONS CENTER	Contact 48 hr prior to clearance requirement 575-784-2135 - Call clearance and utility location	
10. SECURITY FORCES 0.575	Contact 48 hr prior to clearance requirement 575-784-4111 - Call clearance and utility location	TSgt Lane Thorn 25 JAN 13
11. SAFETY 8.1	Contact 48 hr prior to clearance requirement 575-784-2811 - Call clearance and utility location	TSgt [illegible] 24 JAN 13
X 12. COMMUNICATIONS 8.10	Contact 48 hr prior to clearance requirement 575-784-6622 - Call clearance and utility location	No cable in area MK 25 Jan 13
X 13. BASE OPERATIONS 13.135	Contact 48 hr prior to clearance requirement 575-784-2801 - Call clearance and utility location	S.D. Hokes 24 Jan 2013
X 14. SCX	Contact 48 hr prior to clearance requirement 575-784-6103 - Call clearance and utility location	Clear TSgt Frank Royal
X 15. COMMERCIAL UTILITY COMPANY		
X TELEPHONE	Contact 48 hr prior to clearance requirement 1-800-321-2537 - Note date & request number on the reverse of this form that will be provided by the company.	Called 1/24/13 Sheen
X CABLE		# 20130426833
X 16. OTHER *(Specify)*		

17. REQUESTED CLEARANCE [X] APPROVED [ ] DISAPPROVED

18. TYPED NAME AND SIGNATURE OF APPROVING OFFICER *(Chief of Operations Flight)* K. CABLE

18a. DATE SIGNED (ddmmyy): 28 JAN 2013

INSTRUCTIONS

The BCE work clearance request is used for any work (contract or in-house) that may disrupt aircraft or vehicular flow, base utility services, protection provided by fire and intrusion alarm system, or routine activities of the installation. This form is used to coordinate the required work with key base activities and keep customer inconvenience to a minimum. It is also used to identify potentially hazardous work conditions in an attempt to prevent accidents. The work clearance request is processed just prior to the start of work. If delays are encountered and the conditions at the job site change (or may have changed) this work clearance request must be reprocessed

18. Remarks. (*This section must describe specific precautionary measure to be taken before and during work accomplishment. Specific comments concerning the approved method of excavation, hand or powered equipment should be listed)*

1. Contractor will not proceed with any work until clearance has been coordinated as indicated by remarks that have been provided.

2. Any drawings provided indicate the APPROXIMATE location of the work area.

3. Contractor shall contact and give notice to all listed organizations by calling the phone numbers as listed in the remarks section next to each organization.

   a. It is very important all clearance requests are made and understood by the contractor. The contractor shall log all calls and activities made of each organization as listed on the AF 103. The log information will be placed on page 3 of the AF 103. Each entry will be kept in a numbered, sequential order by date and organization. Note: If additional pages are required for the clearance log record is to be attached to the original AF103.

   b. If clearance is not required in the location of this request, the contractor will note the reviewers name and date/time the organization was contacted and indicate "No Action Required".

   c. If clearance is required by the organization the contractor will coordinated a site meeting with the reviewers representing that organization. The reviewer will physically spot the clearance issue and/or mark the location. The contractor will then have the reviewer fill in his name and initials in the Reviewers Name And Initials column on page 1 for that organization. The contractor will also log on page 3 of the AF103, the meeting, date/time, persons name, and action taken.

4. The contractor will notify the C.O.R. or Project Manager (Box 5) if there are any questions or concerns to ensure proper coordination of this Work Clearance Request.

5. The contractor or his agent will maintain this clearance on the site and make it available for review by any GOV representative when requested.

6. Notify the Fire Department Control Center @ 784-2578 if any utilities are damaged after normal work hours.

Contractor Representative Signature _____ Date 28 Jan 2013

Copy for UPS

Locate 1/17/13

(85)

BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST

(See Instructions on Reverse)

DATE PREPARED (ddmmyy): 18-12-12

1. Clearance is requested to proceed with work at: ST-C505 (Neg Hand of runway, 300' S of N Perimeter Rd
Northing = 1239283.23 Easting = 850896.90
On Work Order No 4BAE08 Contract No. FA8903-08-D-8783 involving excavation or utility disturbance per attached sketch. This area: [ ] has [X] has not been staked or clearly marked.

2. TYPE OF FACILITY/ WORK INVOLVED

	A. PAVEMENT		D. FIRE DETECTION & PROTECTION SYSTEM						G. AIRCRAFT OR VEHICULAR TRAFFIC FLOW
	B. DRAINAGE SYSTEM		E. UTILITY		OVERHEAD		UNDERGROUND		H. SECURITY
	C. RAILROAD TRACKS		F. COMM		OVERHEAD		UNDERGROUND		I. OTHER 30' soil boring

3. DATE CLEARANCE REQUIRED

4. DATE OF CLEARANCE

5. SIGNATURE OF REQUESTING OFFICIAL

6. TELEPHONE NO.

7. ORGANIZATION

8. BASE CIVIL ENGINEERING — ORGANIZATION	REMARKS *(Use Reverse for additional comments)*	REVIEWER'S NAME & INITIALS
A. ELECTRICAL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-4371 - Call clearance and utility location	Call before dig
B. GAS DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	Clear
C. WATER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	Call for Spots
D. SEWER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
E. IRRIGATION SYSTEMS	HAND DIG ONLY (Unless waived by CEO) CEO Approved _____	Clear
F. POL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-6742 - Call clearance and utility location	Clear
G. ENVIRONMENTAL	Contact 48 hr prior to clearance requirement 575-784-1092 - Call clearance and utility location	OK John Robinson 3 Jan 13
H. PAVEMENTS / GROUNDS	Contact 48 hr prior to clearance requirement 575-784-4383 - Call clearance and utility location	OK
I. FIRE PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2578 - Call clearance and utility location	11 Jan 13
J. EMCS / HVAC	Contact 48 hr prior to clearance requirement 575-784-1195 - Call clearance and utility location	Clear TWC
K. GEOBASE OFFICE	Contact 48 hr prior to clearance requirement 575-784-1610 - Call to update maps or utility tabs	
L. CATHODIC PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2209 - Call to update maps or utility tabs	Clear TWC SINCLAIR
9. MAINTENANCE OPERATIONS CENTER	Contact 48 hr prior to clearance requirement 575-784-2135 - Call clearance and utility location	Holly E Hole
10. SECURITY FORCES 0.575	Contact 48 hr prior to clearance requirement 575-784-4111 - Call clearance and utility location	11 JAN 13
11. SAFETY 0.1	Contact 48 hr prior to clearance requirement 575-784-2811 - Call clearance and utility location	11 JAN 13
12. COMMUNICATIONS Good for 30 0.10 DAYS	Contact 48 hr prior to clearance requirement 575-784-6622 - Call clearance and utility location	Will Louise 1/11/13
13. BASE OPERATIONS 0.135	Contact 48 hr prior to clearance requirement 575-784-2801 - Call clearance and utility location	11 JAN 13
14. SCX	Contact 48 hr prior to clearance requirement 575-784-6103 - Call clearance and utility location	11 Jan 13
15. COMMERCIAL UTILITY COMPANY		
X TELEPHONE	Contact 48 hr prior to clearance requirement 1- 800 -321-2537 - Note date & request number on the reverse of this form that will be provided by the company.	Sheen T. Rothery called 1/17/13 # 2013032072
X CABLE		
16. OTHER *(Specify)*		

17. REQUESTED CLEARANCE [X] APPROVED [ ] DISAPPROVED

18. TYPED NAME AND SIGNATURE OF APPROVING OFFICER *(Chief of Operations Flight)*

18a. DATE SIGNED (ddmmyy)

INSTRUCTIONS

The BCE work clearance request is used for any work (contract or in-house) that may disrupt aircraft or vehicular flow, base utility services, protection provided by fire and intrusion alarm system, or routine activities of the installation. This form is used to coordinate the required work with key base activities and keep customer inconvenience to a minimum. It is also used to identify potentially hazardous work conditions in an attempt to prevent accidents. The work clearance request is processed just prior to the start of work. If delays are encountered and the conditions at the job site change (or may have changed) this work clearance request must be reprocessed

18. Remarks. (*This section must describe specific precautionary measure to be taken before and during work accomplishment. Specific comments concerning the approved method of excavation, hand or powered equipment should be listed)*

1. Contractor will not proceed with any work until clearance has been coordinated as indicated by remarks that have been provided.

2. Any drawings provided indicate the APPROXIMATE location of the work area.

3. Contractor shall contact and give notice to all listed organizations by calling the phone numbers as listed in the remarks section next to each organization.

   a. It is very important all clearance requests are made and understood by the contractor. The contractor shall log all calls and activities made of each organization as listed on the AF 103. The log information will be placed on page 3 of the AF 103. Each entry will be kept in a numbered, sequential order by date and organization. Note: If additional pages are required for the clearance log record is to be attached to the original AF103.

   b. If clearance is not required in the location of this request, the contractor will note the reviewers name and date/time the organization was contacted and indicate "No Action Required".

   c. If clearance is required by the organization the contractor will coordinated a site meeting with the reviewers representing that organization. The reviewer will physically spot the clearance issue and/or mark the location. The contractor will then have the reviewer fill in his name and initials in the Reviewers Name And Initials column on page 1 for that organization. The contractor will also log on page 3 of the AF103, the meeting, date/time, persons name, and action taken.

4. The contractor will notify the C.O.R. or Project Manager (Box 5) if there are any questions or concerns to ensure proper coordination of this Work Clearance Request.

5. The contractor or his agent will maintain this clearance on the site and make it available for review by any GOV representative when requested.

6. Notify the Fire Department Control Center @ 784-2578 if any utilities are damaged after normal work hours.

Contractor Representative Signature _____ Date 25 Jan 2013

Action Log

Date/Time	Organization	Name	Action Taken
1. 24 Jan 1410		Alex Valazquez	electric clear – stay E of westernmost stakes
2. 25 Jan 0800	275OCES	Duane Gabbs Duane Gabbs	water sewer clear
3. 16 Apr 0810	"	"	verified no conflict
4. 16 Apr 1305	elec. shop	Buddy Gaither	verified no conflict
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Copy

WILL INVEST 03 2/4/13 IN OFFICE

WANT TO START 2/4/13

9/10

BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST

(See Instructions on Reverse)

DATE PREPARED (ddmmyy): 1/31/13

1. Clearance is requested to proceed with work at: SS-C607 (Former POL yard)
Lat: 34.402260 Long: -103.317010
On Work Order No _____ Contract No. _____ involving excavation or utility disturbance per attached sketch. This area: [X] has [ ] has not been staked or clearly marked.

2. TYPE OF FACILITY/ WORK INVOLVED
Investigative soil borings

	A. PAVEMENT		D. FIRE DETECTION & PROTECTION SYSTEM						G. AIRCRAFT OR VEHICULAR TRAFFIC FLOW
	B. DRAINAGE SYSTEM		E. UTILITY		OVERHEAD		UNDERGROUND		H. SECURITY
	C. RAILROAD TRACKS		F. COMM		OVERHEAD		UNDERGROUND		I. OTHER

3. DATE CLEARANCE REQUIRED: 1/4/2013
4. DATE OF CLEARANCE: 1/31/2013
5. SIGNATURE OF REQUESTING OFFICIAL: [signature]
6. TELEPHONE NO.: 1095
7. ORGANIZATION: CEAN

ORGANIZATION		REMARKS (Use Reverse for additional comments)	REVIEWER'S NAME & INITIALS
8. BASE OPERATIONS	Bldg 135	Contact 48 hrs prior to clearance requirement 575-784-2801 - Call for clearance	31 Jan 13 SDS
9. MAINTENANCE OPERATIONS CENTER	Bldg ~~104~~ 722	Contact 48 hrs prior to clearance requirement 575-784-2135	[signature]
10. SAFETY	Bldg 1	Contact 48 hrs prior to clearance requirement 575-784-2811	[signature] 31 Jan 13
11. COMMUNICATIONS (800) For 3-5 days	Bldg 10	Contact 48 hrs prior to clearance requirement 575-784-6622 - Call for clearance and utility location	Will locate 1/31/13
12. SCX	Bldg 10	Contact 48 hrs prior to clearance requirement 575-784-6103 - Call for clearance and utility location	[signature] 1/31/2013
13. SECURITY FORCES	Bldg 575	Contact 48 hrs prior to clearance requirement 575-784-4111	[signature] 1/31/13
14. COMMERCIAL UTILITY COMPANIES			
X TELEPHONE		New Mexico 811 Contact 48 hrs prior to clearance requirement 1- 800 -321-2537 - Note date & request number.	Date 31 Jan 13 0940 Request # 2013052219 [signature] Mon a.m.
X CABLE			
15. BASE CIVIL ENGINEERING, Bldg 355			
	A. ELECTRICAL DISTRIBUTION	Contact 48 hrs prior to clearance requirement 575-784-4371 - Call for clearance and utility location	Con schaer B., T. Pauer, [signature]
	B. GAS DISTRIBUTION	Contact 48 hrs prior to clearance requirement 575-693-2565 - Call for clearance and utility location	
	C. WATER DISTRIBUTION	Contact 48 hrs prior to clearance requirement 575-693-2565 - Call for clearance and utility location	Call 48 hrs prior
	D. SEWER DISTRIBUTION	Contact 48 hrs prior to clearance requirement 575-693-2565 - Call for clearance and utility location	
	E. IRRIGATION SYSTEMS	HAND DIG ONLY (Unless waived by CEO) CEO Approved NA	clear [signature]
	F. POL DISTRIBUTION	Contact 48 hrs prior to clearance requirement 575-784-6742 - Call for clearance and utility location	Call 48 hrs prior
	G. ENVIRONMENTAL	Contact 48 hrs prior to clearance requirement 575-784-1092	SR John Kerman 31 Jan 13 [signature] 31 Jan 13
	H. PAVEMENTS / GROUNDS	Contact 48 hrs prior to clearance requirement 575-784-4383 - Call for clearance and utility location	NA [signature]
	I. FIRE PROTECTION	Contact 48 hrs prior to clearance requirement 575-784-2578 - Call for clearance and utility location	[signature]
	J. EMCS / HVAC	Contact 48 hrs prior to clearance requirement 575-784-1195 - Call for clearance and utility location	Con Schaer B., T. Pauer, [signature]
	K. GEOBASE OFFICE CALL within 24hrs	Contact 48 hrs prior to clearance requirement 575-784-1610 - Call to update maps or utility tabs	T Sgt Meadows
16. OTHER (Specify)			

17. REQUESTED CLEARANCE: [X] APPROVED [ ] DISAPPROVED

18. TYPED NAME AND SIGNATURE OF APPROVING OFFICER (Chief of Operations Flight): [signature]

18a. DATE SIGNED (ddmmyy): 04/02/13

INSTRUCTIONS

The BCE work clearance request is used for any work (contract or in-house) that may disrupt aircraft or vehicular flow, base utility services, protection provided by fire and intrusion alarm system, or routine activities of the installation. This form is used to coordinate the required work with key base activities and keep customer inconvenience to a minimum. It is also used to identify potentially hazardous work conditions in an attempt to prevent accidents. The work clearance request is processed just prior to the start of work. If delays are encountered and the conditions at the job site change (or may have changed) this work clearance request must be re-processed.

19. Remarks. (*This section describes specific precautionary measures to be taken before and during work accomplishment. Specific comments concerning the approved method of excavation, hand or powered equipment should be listed)*

Equipment being used: Geoprobe, direct push drilling.

1. Contractor will not proceed with any work until clearance has been coordinated as indicated by remarks that have been provided.
2. Any drawings provided indicate the APPROXIMATE location of the work area.
3. Contractor shall contact and give notice to all listed organizations by calling the phone numbers as listed in the remarks section next to each organization.
   a. It is very important all clearance requests are made and understood by the contractor. The contractor shall log all calls and activities made to each organization as listed on the AF 103. The log information will be placed on page 3 of the AF 103. Each entry will be kept in a numbered, sequential order by date and organization. Note: If additional pages are required for the clearance log, record is to be attached to the original AF103.
   b. If clearance is not required in the location of this request, the contractor will note the reviewer's name and date/time the organization was contacted and indicate "No Action Required".
   c. If clearance is required by the organization, the contractor will coordinate a site meeting with the reviewer(s) representing that organization. The reviewer will physically spot the clearance issue and/or mark the location. The contractor will then have the reviewer fill in his name and initials in the Reviewers Name and Initials column on page 1 for that organization. The contractor will also log on page 3 of the AF103, the meeting, date/time, person(s) name, and action taken.
4. As-builts for irrigation systems are not available. The contractor will ensure restoration of landscaping and repair of irrigation systems are completed, at no cost to the government, during the course of work.
5. The contractor will notify the Contracting Officer Representative (COR) or Project Manager (Box 5) if there are any questions or concerns to ensure proper coordination of this Work Clearance Request.
6. The contractor or his agent will maintain this clearance request on the site and make it available for review by any Government representative upon request.
7. Notify Fire Department Control Center @ 575-784-2578 if any utilities are damaged after normal work hours.

Contractor Representative (Print Name) Stephen Jacobson — Telephone No. 402-881-7899

Signature _____ — Date 2/4/2013

(NOTE: Work cannot begin until signed by Contractor Representative)

Project Manager/COR (Print Name) Sheen T Kirkland CEAN — Telephone No. 1695

Signature _____ — Date 1/4/2013

Action Log

Base Utility	Locater	Action Taken	Contractor	Date/Time
Electrical Distribution	Melvin Gaither	marked UG electric, near S side transf.		31 Jan / 1403
EMCS / Alarms / HVAC				
Gas Distribution	Scott Grubbs	all clear	27 SOCES	4 Feb / 0800
Water Distribution	↓	relocated 2 borings due to potential conflict	↓	↓
Sewer Distribution		all clear		
Irrigation / Landscaping				
Comm / Americom	Michael Keith	marked UG comm	Americom	4 Feb / 0745
GEO Base				

New Mexico 811	Locater	Action Taken	Contractor	Date/Time
SuddenLink	Joe Baca	all clear	USK - One Call	04 Feb / 0815
CenturyLink	"	"	"	
Plateau				

Organization	Name	Action Taken	Contractor	Date/Time
1.				
2.				
3.				
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18.				

for LRS

BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST

(See Instructions on Reverse)

DATE PREPARED (ddmmyy): 10-12-12

1. Clearance is requested to proceed with work at: SD-C 508 (E of former north-south runway, 600' N of EOD area. Northing = 1228507.23, Easting 851294.60
On Work Order No 4PAEO8 Contract No. FA8903-08-D-8783 involving excavation or utility disturbance per attached sketch. This area: [ ] has [X] has not been staked or clearly marked.

2. TYPE OF FACILITY/ WORK INVOLVED

	A. PAVEMENT		D. FIRE DETECTION & PROTECTION SYSTEM					G. AIRCRAFT OR VEHICULAR TRAFFIC FLOW
	B. DRAINAGE SYSTEM		E. UTILITY		OVERHEAD		UNDERGROUND	H. SECURITY
	C. RAILROAD TRACKS		F. COMM		OVERHEAD		UNDERGROUND	I. OTHER 20' soil borings

3. DATE CLEARANCE REQUIRED

4. DATE OF CLEARANCE

5. SIGNATURE OF REQUESTING OFFICIAL

6. TELEPHONE NO.

7. ORGANIZATION

8. BASE CIVIL ENGINEERING	ORGANIZATION	REMARKS *(Use Reverse for additional comments)*	REVIEWER'S NAME & INITIALS
	A. ELECTRICAL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-4371 - Call clearance and utility location	Cleared
	B. GAS DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
	C. WATER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
	D. SEWER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
	E. IRRIGATION SYSTEMS	HAND DIG ONLY (Unless waived by CEO) CEO Approved _____	Cleared
	F. POL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-6742 - Call clearance and utility location	
	G. ENVIRONMENTAL	Contact 48 hr prior to clearance requirement 575-784-1092 - Call clearance and utility location	OK 3 Jan 13
	H. PAVEMENTS / GROUNDS	Contact 48 hr prior to clearance requirement 575-784-4383 - Call clearance and utility location	
	I. FIRE PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2578 - Call clearance and utility location	11 Jan 13
	J. EMCS / HVAC	Contact 48 hr prior to clearance requirement 575-784-1195 - Call clearance and utility location	Cleared
	K. GEOBASE OFFICE	Contact 48 hr prior to clearance requirement 575-784-1610 - Call to update maps or utility tabs	SINCLAIR
	L. CATHODIC PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2209 - Call to update maps or utility tabs	Cleared
9. MAINTENANCE OPERATIONS CENTER B.164		Contact 48 hr prior to clearance requirement 575-784-2135 - Call clearance and utility location	
10. SECURITY FORCES B.575		Contact 48 hr prior to clearance requirement 575-784-4111 - Call clearance and utility location	11 JAN 13
11. SAFETY B.1		Contact 48 hr prior to clearance requirement 575-784-2811 - Call clearance and utility location	11 JAN 13
12. COMMUNICATIONS B.10		Contact 48 hr prior to clearance requirement 575-784-6622 - Call clearance and utility location	1/11/13
13. BASE OPERATIONS B.135		Contact 48 hr prior to clearance requirement 575-784-2801 - Call clearance and utility location	11 JAN 13
14. SCX		Contact 48 hr prior to clearance requirement 575-784-6103 - Call clearance and utility location	11 Jan 13
15. COMMERCIAL UTILITY COMPANY		Contact 48 hr prior to clearance requirement 1- 800 -321-2537 - Note date & request number on the reverse of this form that will be provided by the company.	Sheen T. Rotthrop called 1/17/13 0900hrs. # 2013032061
X	TELEPHONE		
X	CABLE		
16. OTHER *(Specify)*			

17. REQUESTED CLEARANCE [X] APPROVED [ ] DISAPPROVED

18. TYPED NAME AND SIGNATURE OF APPROVING OFFICER *(Chief of Operations Flight)*

18a. DATE SIGNED (ddmmyy)

INSTRUCTIONS

The BCE work clearance request is used for any work (contract or in-house) that may disrupt aircraft or vehicular flow, base utility services, protection provided by fire and intrusion alarm system, or routine activities of the installation. This form is used to coordinate the required work with key base activities and keep customer inconvenience to a minimum. It is also used to identify potentially hazardous work conditions in an attempt to prevent accidents. The work clearance request is processed just prior to the start of work. If delays are encountered and the conditions at the job site change (or may have changed) this work clearance request must be reprocessed

18. Remarks. (*This section must describe specific precautionary measure to be taken before and during work accomplishment. Specific comments concerning the approved method of excavation, hand or powered equipment should be listed)*

1. Contractor will not proceed with any work until clearance has been coordinated as indicated by remarks that have been provided.

2. Any drawings provided indicate the APPROXIMATE location of the work area.

3. Contractor shall contact and give notice to all listed organizations by calling the phone numbers as listed in the remarks section next to each organization.

   a. It is very important all clearance requests are made and understood by the contractor. The contractor shall log all calls and activities made of each organization as listed on the AF 103. The log information will be placed on page 3 of the AF 103. Each entry will be kept in a numbered, sequential order by date and organization. Note: If additional pages are required for the clearance log record is to be attached to the original AF103.

   b. If clearance is not required in the location of this request, the contractor will note the reviewers name and date/time the organization was contacted and indicate "No Action Required".

   c. If clearance is required by the organization the contractor will coordinated a site meeting with the reviewers representing that organization. The reviewer will physically spot the clearance issue and/or mark the location. The contractor will then have the reviewer fill in his name and initials in the Reviewers Name And Initials column on page 1 for that organization. The contractor will also log on page 3 of the AF103, the meeting, date/time, persons name, and action taken.

4. The contractor will notify the C.O.R. or Project Manager (Box 5) if there are any questions or concerns to ensure proper coordination of this Work Clearance Request.

5. The contractor or his agent will maintain this clearance on the site and make it available for review by any GOV representative when requested.

6. Notify the Fire Department Control Center @ 784-2578 if any utilities are damaged after normal work hours.

Contractor Representative Signature _____ Date 17 Jan 2013

Copy for ARS Locate 1/17/13

(84)

BASE CIVIL ENGINEERING WORK CLEARANCE REQUEST

(See Instructions on Reverse)

DATE PREPARED (ddmmyy): 18-12-12

1. Clearance is requested to proceed with work at: TA/AS - C129 (S of contractor storage area on the NE part of CAFB, Northing = 1238571.72, Easting = 849432.15)
On Work Order No 48AE08 Contract No. FA8903-08-D-8783 involving excavation or utility disturbance per attached sketch. This area: [ ] has [X] has not been staked or clearly marked.

2. TYPE OF FACILITY/ WORK INVOLVED

	A. PAVEMENT		D. FIRE DETECTION & PROTECTION SYSTEM					G. AIRCRAFT OR VEHICULAR TRAFFIC FLOW
	B. DRAINAGE SYSTEM		E. UTILITY		OVERHEAD		UNDERGROUND	H. SECURITY
	C. RAILROAD TRACKS		F. COMM		OVERHEAD		UNDERGROUND	I. OTHER 20' coil bearing

3. DATE CLEARANCE REQUIRED

4. DATE OF CLEARANCE

5. SIGNATURE OF REQUESTING OFFICIAL

6. TELEPHONE NO.

7. ORGANIZATION

8. BASE CIVIL ENGINEERING ORGANIZATION	REMARKS (Use Reverse for additional comments)	REVIEWER'S NAME & INITIALS
A. ELECTRICAL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-4371 - Call clearance and utility location	Call before dig
B. GAS DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	Clear
C. WATER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	Call for locate
D. SEWER DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-693-2565 - Call clearance and utility location	
E. IRRIGATION SYSTEMS	HAND DIG ONLY (Unless waived by CEO) CEO Approved _____	Clear
F. POL DISTRIBUTION	Contact 48 hr prior to clearance requirement 575-784-6742 - Call clearance and utility location	Call for locates
G. ENVIRONMENTAL	Contact 48 hr prior to clearance requirement 575-784-1092 - Call clearance and utility location	OK John Roberman 5 Jan 13
H. PAVEMENTS / GROUNDS	Contact 48 hr prior to clearance requirement 575-784-4383 - Call clearance and utility location	
I. FIRE PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2578 - Call clearance and utility location	11 Jan 13
J. EMCS / HVAC	Contact 48 hr prior to clearance requirement 575-784-1195 - Call clearance and utility location	clear
K. GEOBASE OFFICE	Contact 48 hr prior to clearance requirement 575-784-1610 - Call to update maps or utility tabs	SINCLAIR
L. CATHODIC PROTECTION	Contact 48 hr prior to clearance requirement 575-784-2209 - Call to update maps or utility tabs	Clear
9. MAINTENANCE OPERATIONS CENTER B.164	Contact 48 hr prior to clearance requirement 575-784-2135 - Call clearance and utility location	11 JAN 13
10. SECURITY FORCES B.575	Contact 48 hr prior to clearance requirement 575-784-4111 - Call clearance and utility location	
11. SAFETY B.1	Contact 48 hr prior to clearance requirement 575-784-2811 - Call clearance and utility location	11 JAN 13
12. COMMUNICATIONS GOOD FOR 30 B.10 PAYS	Contact 48 hr prior to clearance requirement 575-784-6622 - Call clearance and utility location	WILL LOCATE 1/11/13
13. BASE OPERATIONS B.135	Contact 48 hr prior to clearance requirement 575-784-2801 - Call clearance and utility location	11 JAN 13
14. SCX	Contact 48 hr prior to clearance requirement 575-784-6103 - Call clearance and utility location	Cable in Area 11 Jan 13
15. COMMERCIAL UTILITY COMPANY		
X TELEPHONE	Contact 48 hr prior to clearance requirement 1- 800 -321-2537 - Note date & request number on the reverse of this form that will be provided by the company.	Sheen T. Rottkamp called 1/17/13 0900 hrs # 2013032088
X CABLE		
16. OTHER (Specify)		

17. REQUESTED CLEARANCE [X] APPROVED [ ] DISAPPROVED

18. TYPED NAME AND SIGNATURE OF APPROVING OFFICER (Chief of Operations Flight)

18a. DATE SIGNED (ddmmyy)

INSTRUCTIONS

The BCE work clearance request is used for any work (contract or in-house) that may disrupt aircraft or vehicular flow, base utility services, protection provided by fire and intrusion alarm system, or routine activities of the installation. This form is used to coordinate the required work with key base activities and keep customer inconvenience to a minimum. It is also used to identify potentially hazardous work conditions in an attempt to prevent accidents. The work clearance request is processed just prior to the start of work. If delays are encountered and the conditions at the job site change (or may have changed) this work clearance request must be reprocessed

18. Remarks. (*This section must describe specific precautionary measure to be taken before and during work accomplishment. Specific comments concerning the approved method of excavation, hand or powered equipment should be listed)*

1. Contractor will not proceed with any work until clearance has been coordinated as indicated by remarks that have been provided.

2. Any drawings provided indicate the APPROXIMATE location of the work area.

3. Contractor shall contact and give notice to all listed organizations by calling the phone numbers as listed in the remarks section next to each organization.

   a. It is very important all clearance requests are made and understood by the contractor. The contractor shall log all calls and activities made of each organization as listed on the AF 103. The log information will be placed on page 3 of the AF 103. Each entry will be kept in a numbered, sequential order by date and organization. Note: If additional pages are required for the clearance log record is to be attached to the original AF103.

   b. If clearance is not required in the location of this request, the contractor will note the reviewers name and date/time the organization was contacted and indicate "No Action Required".

   c. If clearance is required by the organization the contractor will coordinated a site meeting with the reviewers representing that organization. The reviewer will physically spot the clearance issue and/or mark the location. The contractor will then have the reviewer fill in his name and initials in the Reviewers Name And Initials column on page 1 for that organization. The contractor will also log on page 3 of the AF103, the meeting, date/time, persons name, and action taken.

4. The contractor will notify the C.O.R. or Project Manager (Box 5) if there are any questions or concerns to ensure proper coordination of this Work Clearance Request.

5. The contractor or his agent will maintain this clearance on the site and make it available for review by any GOV representative when requested.

6. Notify the Fire Department Control Center @ 784-2578 if any utilities are damaged after normal work hours.

Contractor Representative Signature _____ Date 17 Jan 2013

Action Log

Date/Time	Organization	Name	Action Taken
1. 24 Jan 1310	27SOCES	Duane Grubbs Duane Grubbs	Water/sewer/Gas/irrigation clear
2. 24 Jan 1357		Alex Valazquez	electric clear
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Flightline Waiver

Action Log

Date/Time	Organization	Name	Action Taken
1. 24 Jan 1410		Alex Valazquez	electric clear – stay E of westernmost stakes
2. 25 Jan 0800	275OCES	Duane Gabbs Duane Gabbs	water sewer clear
3. 16 Apr 0810	"	"	verified no conflict
4. 16 Apr 1305	elec. shop	Buddy Gaither	verified no conflict
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Copy

DEPARTMENT OF THE AIR FORCE
27TH SPECIAL OPERATIONS CIVIL ENGINEER SQUADRON (AFSOC)
CANNON AIR FORCE BASE NEW MEXICO

MEMORANDUM FOR 27 SOW/CC

FROM: 27 SOCES/CC

SUBJECT: Temporary Airfield Construction Waiver, ST-505 Drill Rig Environmental

WAIVER TITLE: ST-505 Drill Rig Environmental

TIMEFRAME OF WAIVER: Present – Completion of Project

ESTIMATED TIMEFRAME OF CONSTRUCTION: Present – March 2014

1. Standard and/or Criterion to be Waived: According to the Unified Facilities Criteria (UFC) 3-260-01, an airfield waiver is required when construction equipment/personnel violate airfield imaginary surfaces, safe clearance, or other design criteria established in the UFC. This project consists of environmental soil borings for the Cannon Air Force Base Restoration Program (Attach 1). All borings will be completed under a single phase and are needed to support the restoration program. A cross- functional team, led by 27 SOW/SE, reviewed all requirements of this project (Attach 2) and determined this project presents an E-I or "medium risk" to airfield operations (Attach 3). Construction equipment/ personnel will violate Runway 22 Clear Zone (Attach 4).

2. Justification for Noncompliance: To support Cannon Air Force Base Restoration Program.

3. Risk Mitigation Measures: The contractor will adhere to the following:
   a. Follow all safety standards outlined in the construction phasing plan and Operational Risk Assessment.
   a. Coordinate with Airfield Operations, daily before beginning construction.
   b. Adhere to all safety protocols briefed during preconstruction.
   C. Risk assessment code: E-I or "medium risk" (see Attach 3 for details).

03/22/2013

X Anthony Figiera

ANTHONY S. FIGIERA, Lt Col, USAF
COMMANDER
Signed by: FIGIERA.ANTHONY.S.1017090255

5 Attachments:
1. Site Map
2. Construction Phasing Plan
3. Operational Risk Assessment
4. UFC 3-260-01 Excerpt
5. Comment Sheet

1st Ind to 27 SOCES/CC, 22 March 13, Temporary Airfield Construction Waiver, ST-505 Drill Rig Environmental

27 SOW/CC

MEMORANDUM FOR 27 SOCES/CC

Approved./~~Disapproved.~~

04/03/2013

X

ALBERT M. ELTON II, Colonel, USAF
Commander, 27 SOW
Signed by: ELTON.ALBERT.M.II.1176248650

Boring Logs

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA501-SB01
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve		8. HOLE LOCATION: 1236498.948N 847068.969E
		9. SURFACE ELEVATION: 4307.0 ft above msl
		10. DATE STARTED: 1-29-13 / 11. DATE COMPLETED: 1-29-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 10'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2 + MS/MSD	X	X (RCRA)	TPH-GRO, DRO, DRO	SVOCs	PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Matt Clia

LOCATION SKETCH/COMMENTS

SCALE: not to scale

NA

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA501-SB01

HTRW DRILLING LOG

HOLE NO. CA501-SB01

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA501-SB01-005	PP=Pocket Pen	START TIME = 1510
		SAND (SP) - Loose, moist, tan, fine	BKG = ND				Time (T) = 1520 Recovery (R) = 4.7/5.0
	1	Sandy CLAY (CL) - Very stiff, moist, light brown, low plastic	HS = 0.0			PP=2.5	
		Silty SAND (SM) - Loose, moist, reddish brown, fine					Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and RCRA Metals
	2	with increasing silt					
		Sandy SILT (ML) - Very stiff, moist, brown, low plastic				PP=3.5	
	3	with increasing ~~clay~~ redness					
	4	Becomes soft, tan, with no sand and with abundant large calcareous nodules - weathered caliche					
				NR			
	5				CA501-SB01-010 + MS/MSD		T = 1535 R = 4.8/5.0
		CLAY (CL) - Stiff, moist, tan, low plastic	HS = 0.0			PP=1.5	
	6	with silt					
	7	With increasing silt					
	8						
		~~Silty CLAY~~ Clayey SILT (ML) - Very stiff, moist, reddish brown, low plastic, with trace calcareous nodules				PP=4.0	
	9						
	10	Bottom of boring - 10' bgs		NR			

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA501-SB01

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA501-SB02
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1236447.195N, 847022.305E	
	9. SURFACE ELEVATION: 4307.0 ft above msl	
	10. DATE STARTED: 1-29-13	11. DATE COMPLETED: 1-29-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	X	X (RCRA)	TPH-GRO, DRO, ORO	SVOCs	PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Matt Cui

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA501-SB02

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA501-SB02

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA501-SB02-004	PP=Pocket Pen	START TIME = 1055 FIR
	1	Gravelly SAND (SP) - Loose, moist, tan, poorly sorted	BKG = ND HS = 1.4				Time (T) = 1110 Recovery (R) = 4.3/5.0
	2	Sandy CLAY (CL) - Stiff, moist, brown, low plastic Becomes clean clay, hard				PP=2.0 PP=4.0	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and RCRA Metals
	3	Clayey SILT (ML) - Very stiff, moist, reddish brown, low plastic				PP=3.5	
	4	~~SILT (ML)~~ Becomes Soft, ~~moist~~, tan, ~~low plastic~~, with abundant calcareous nodules (weathered caliche)	decreasing clay content and			PP=1.0	Drilling becomes much more difficult
				NR			
	5	With increased clay, no calcareous nodules	HS = 0.4		CA501-SB02-009		T = 1125 R = 4.0/5.0
	6	0.4' of fine, brown sand					
	7	With large calcareous nodules (~1" in diameter) Becomes light tan, dry, with smaller nodules (~0.1" in diameter)					
	8						
	9						
				NR			
	10	Bottom of boring - 10' bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA501-SB02

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08TO-8783-J00169	HOLE NUMBER: CA501-SB03	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1236454.590N 847065.820E	
	9. SURFACE ELEVATION: 4307.3 ft above msl	
	10. DATE STARTED: 1-29-13	11. DATE COMPLETED: 1-29-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	X	X (RCRA)	TPH-GRO, DRO, ORO	SVOCs	PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Michael Clay

LOCATION SKETCH/COMMENTS SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA501-SB03

HTRW DRILLING LOG

HOLE NO. CA501-SB03

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA501-SB03-004 +dup (CA501-SB503-004)	PP=Pocket Pen	START TIME = 1145 Fill Time (T) 1150 Recovery (R) 4.4/5.0
		Clayey SAND (SC) - Medium dense, moist, tan, poorly sorted, with trace gravel	BKG=ND				
	1	Silty CLAY (CL) - Stiff, moist, brown, low plastic	HS=6.1			PP=2.0	
	2						Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and RCRA Metals
		Becomes very stiff				PP=3.0	
	3	With increasing silt, and becoming more reddish brown					
		Becomes stiff					
	4					PP=2.0	
				NR			
	5		HS=1.3		CA501-SB03-010		T = 1210 R = 5.0/5.0
	6	SILT (ML) - Stiff, moist, tan, low plastic, with calcareous nodules With increasing clay				PP=1.5	
	7	Silty CLAY (CL) - Stiff, moist, tan, low plastic with increasing reddish color					
	8					PP=2.0	
	9	SILT (ML) - Stiff, moist, tan, low plastic, with abundant large calcareous nodules (~1" in diameter)					
		Becomes reddish brown, with no calcareous nodules					
	10						

HTRW DRILLING LOG

HOLE NO. CA501-SB03

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SILT(ML) - Stiff, moist, tan, low plastic	HS=5.5		CA501-SB03 0.5	PP=2.0	T = 1225 R=5.0/5.0 Fill
	11						
		Silty SAND(SM) -- Medium dense, moist, light brown, fine grained				PP=1.5	
	12						
	13					PP=1.0	
	14						
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA501-SB03

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA501-SB04	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1236458.969N 847110.366E	
	9. SURFACE ELEVATION: 4307.5 ft above msl	
	10. DATE STARTED: 1-29-13	11. DATE COMPLETED: 1-29-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	X	X (RCRA)	TPH-GRO, DRO	SVOCs	PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Matt Clin

LOCATION SKETCH/COMMENTS SCALE:

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA501-SB04

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA501-SB04

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M Cline

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA501-SB04-UC4	PP=Pocket Pen	START TIME = 1430
		Gravelly SAND (SP) - Loose, moist, brown, poorly sorted	BKG=ND HS=1.4				Time (T) = 1445 Recovery (R) = 4.2/5.0 Fill
	1						
		Clayey SILT (ML) - Very stiff, moist, brown, low plastic				PP=3.5	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and RCRA Metals
	2						
	3					PP=2.5	
	4						
				NR			
	5	Becomes light brown, with increasing clay	HS=0.0		CA501-SB04-UC4		T=1455 R=4.3/5.0
						PP=2.5	
	6						
		Becomes tan					
	7						
						PP=2.5	
	8						
	9						
				NR			
	10	~~Bottom of boring 10' bgs~~					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA501-SB04

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA501-SB05
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nall		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve		8. HOLE LOCATION: 1236409.667N 847058.708E
		9. SURFACE ELEVATION: 4307.5 ft above msl
		10. DATE STARTED: 1-29-13 / 11. DATE COMPLETED: 1-29-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 10'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	X	X (RCRA)	TPH-GRO, DRO, PRO	PCBs	SVOCs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite chips	X	—	—	Matt Chu

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA501-SB05

HTRW DRILLING LOG

HOLE NO. CA501-SB05

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA501-SB05-005	PP=Pocket Pen	START TIME = 1345 Fill Time (T) = 1355 Recovery (R) = 4.7/5.0
	1	Gravelly SAND (SP) - Loose, moist, dark brown, poorly sorted 0.2' of fine, tan sand	BKG=ND HS=0.0				
	2	Clayey SILT (ML) - Very stiff, moist, brown, low plastic				PP=4.0	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and RCRA Metals
	3					PP=3.5	
	4						
	5	Becomes light tan, with trace gravel	HS=0.0		CA501-SB05-010	PP=3.0	T=1410 R=5.0/5.0
	6	with increasing darker color					
	7	Becomes reddish brown				PP=3.0	
	8						
	9	Becomes light tan, with abundant calcareous nodules					
	10	SAND (SP) - Loose, moist, tan, fine grained Bottom of boring - 10' bgs					

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA501-SB06
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve		8. HOLE LOCATION: 1236390.298 N 847002.840 E
		9. SURFACE ELEVATION: 4307.3 ft above msl
		10. DATE STARTED: 1-30-13 / 11. DATE COMPLETED: 1-30-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 8.6'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2+MS/MSD	X	X (RCRA)	TPH-GRO, DRO, PRO	SVOCs	PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA501-SB06

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA501-SB06

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA501-SB06-005	PP=Pocket Pen	START TIME = 0950
	1	Clayey SAND (SC) - Medium dense, moist, brown, poorly sorted	BKG=ND HS=0.0				Time (T) = 1000 Recovery (R) = 5.0/5.0 Fill
	2	becomes tan					Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and RCRA Metals
	3	Sandy SILT (ML) - Very stiff, moist, brown, low plastic, with fine clay				PP=3.0	
	4					PP=3.0	
	5						
		Silty SAND (SM) - Loose, moist, tan, poorly sorted	HS=0.1		CA501-SB06-009 + MS/MSD		T=1045 R=3.6/5.0 Refusal @ 7', offset and redrill. Refusal @ 8.6'
	6	with increasing silt Becomes brown					
	7	~~SILT (ML)~~ Silty GRAVEL (GM) - Loose, dry, white, poorly sorted, with max gravel diameter ~ 1" - weathered calcite					
	8	~~Becomes~~ Silty SAND (SM) - Loose, moist, reddish brown, fine grained				~~PP=1.5~~	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA501-SB06

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA501-SB07
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1236371.638 N 846945.002 E	
	9. SURFACE ELEVATION: 4307.0 ft above msl	
	10. DATE STARTED: 1-29-13	11. DATE COMPLETED: 1-29-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	X	X (RCRA)	TPH-GRO, DRO, ORO	SVOCs	PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Mitch Cline

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA501-SB07

HTRW DRILLING LOG

HOLE NO. CA501-SB07

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA501-SB07-005	PP=Pocket Pen	START TIME = 1020
		P					Time (T) = 1025 Recovery (R) 4.6/5.0
	1	Sandy GRAVEL (GW) - loose, moist, brown, poorly sorted	BKG=ND HS=0.3				
	2	Clayey SILT (ML) - Very stiff, moist, brown, low plastic				PP=3.5	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and RCRA Metals
	3						
	4					PP=3.5	
				No Recovery (NR)			
	5		HS=2.6		CA501-SB07-010		T = 1040 R = ~~5.0~~ 4.6/5.0
	6					PP=3.5	
	7						
	8					PP=3.0	
	9	Becomes ~~SILT (ML)~~ Stiff, ~~moist~~, tan, ~~low plastic~~, with large calcareous nodules - weathered caliche (~C.7" in diameter) decreasing clay content and				PP=3.0	
	10	Bottom of hole - 10' bgs			NR		

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA 501 - SB07

HTRW DRILLING LOG

DISTRICT: AFCEC- FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA501-SB08	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 540	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1236320.295N 846893.792E	
	9. SURFACE ELEVATION: 4307.0 ft above msl	
	10. DATE STARTED: 1-30-13	11. DATE COMPLETED: 1-30-13
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: N/A	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	X	X (RCRA)	TPH-DRO/GRO	SVOCs	NB:	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE/OF INSPECTOR
hydrated bentonite chips	X	—	—	[illegible]

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale

PROJECT: Site Investigation at 8 Sites, Cannon AFB	HOLE: CA501-SB03

HTRW DRILLING LOG

HOLE NO. CA501 - SB08

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M Cline

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA501-SB08-005	PP=Pocket Pen	START TIME = 0800
		SAND (SP) - Loose, moist, light brown, poorly sorted, with silt + trace gravel	BKG = ND HS = 0.0				Time (T) = 0820 Recovery (R) 4.6/5.0 Fill
	1	Sandy SILT (ML) - Stiff, moist, light reddish brown, low plastic				PP=2.0	
		with increasing clay, becomes hard				PP=4.0	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and RCRA Metals
	2						
		with decreasing clay, becomes very stiff					
	3					PP=2.5	
	4						
				N/R			
	5		HS=0.0		CA501-SB08-010		T=0835 R=5.0/5.0
		0.2' of dark gravel					
	6					PP=2.5	
		clean silt, no sand					
	7	with sand					
	8	Becomes light tan, with large calcareous nodules up to 1" in diameter				PP=2.5	
	9						
	10	Bottom of boring - 10' bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA501-SB08

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-069	HOLE NUMBER: CA501-SB09	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1236326.005 N 846939.860 E	
	9. SURFACE ELEVATION: 4307.3 ft above msl	
	10. DATE STARTED: 1-29-13	11. DATE COMPLETED: 1-29-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	X	X (RCRA)	SVOCs	TPH GRO, DRO, CRO	PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[illegible]

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA501-SB09

HTRW DRILLING LOG

HOLE NO. CA501-SB09

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=0.0		CA501-SB09-004 +dup (CA501-SB09-004)	PP=Pocket Pen	START TIME = 0750 Time (T) 0805 Recovery (R) 4.4/5.0
	1	SAND(SP) - Medium dense, moist, yellowish orange, medium grained					
	2	Sandy CLAY(CL) - Very stiff, moist, brown, low plastic				PP=3.0	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and RCRA Metals
	3						
	4	Clayey SAND (SC) - Medium dense, moist, brown, fine grained					
	5				NR		
		0.1' of asphalt	HS=0.0		CA501-SB09-010 +dup (CA501-SB09-010)		T=0840 R=5.0/5.0
	6	Clayey SILT(ML) - Stiff, moist, light brown, low plastic, with trace sand				PP=3.0	
	7						
		Becomes very stiff					
	8					PP=3.5	
	9	Silty CLAY(CL) - Hard, moist, tan, low plastic				PP=4.0	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA501-SB09

HTRW DRILLING LOG

HOLE NO. CA501-SB09

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME - Silty CLAY (CL) - Hard, moist, tan, low plastic	HS=0.0		CA501-SB09-015	PP=2.0	T=0910 R=4.5/5.0
	11	Clayey SILT (ML) - Stiff, moist, reddish brown, low plast, c				PP=2.0	
	12	Silty SAND (SM) - ~~Very stiff~~ Dense, moist, tan, ~~low plastic~~					
	13					PP=3.0	
	14						
				NR			
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA501-SB09

HTRW DRILLING LOG

DISTRICT: AFCEC FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA501-SB10	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1236331.600 N 846982.943 E	
	9. SURFACE ELEVATION: 4307.5 ft above msl	
	10. DATE STARTED: 1-29-13	11. DATE COMPLETED: 1-29-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 10 bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	X	X (RCRA)	TPH-DRO, GRO, ORO	SVOCs	PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA501-SB10

HTRW DRILLING LOG

HOLE NO. CA501-SB10

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA501-SB10-005	PP=Pocket Pen	START TIME = 0930 Fill Time (T) 0935 Recovery (R) 5.0/5.0
	1	Gravelly SAND (SP) -	BKG = ND HS = 0.3				
	2	~~0.5' of asphalt~~ MC					Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and RCRA Metals
	3	Silty CLAY (CL) - Very stiff, moist, brown, low plastic			PP = 4.0		
	4	Becomes stiff			PP = 2.0		
	5	Becomes ~~Silty CLAY (CL) - Very stiff, moist, light brown, too plastic~~	HS = 0.3		CA501-SB10-010		T = 0950 R = 5.0/5.0
	6					PP = 2.5	
	7						
	8					PP = 2.5	
	9						
	10	Bottom of boring - 10' bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA501-SB10

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA501-SB11
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe MacroCore, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1236280.915N 846933.763E	
	9. SURFACE ELEVATION: 4307.5 ft above msl	
	10. DATE STARTED: 1-30-13	11. DATE COMPLETED: 1-30-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 10	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	X	X (RCRA)	TPH-GRO, DRO, ORO	SVOCs	PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[illegible]

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA501-SB11

HTRW DRILLING LOG

HOLE NO. CA501-SB11

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=0.0		CA501-SB11-005	PP=Pocket Pen	START TIME = 0900 Time (T) = 0910 Recovery (R) = 5.0/5.0 Fill
	1	Gravelly SAND (SP) -					
	2	Clayey SILT (ML) - Stiff, moist, tan, low plastic				PP=2.0	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and RCRA Metals
		with increasing clay					
	3	Becomes hard, dark brown				PP=4.0	
		with decreasing clay					
		with increasing sand, becomes reddish brown					
	4						
	5						
		Becomes very stiff, gray	HS=0.0		CA501-SB11-009	PP=2.5	T=0925 R=4.1/5.0
	6	Becomes reddish brown, with clay					
						PP=3.0	
	7	Becomes medium stiff, tan, with no sand or clay, and with large calcareous nodules (up to ~0.5" in diameter)				PP=1.0	
	8						
		With increasing reddish color					
	9						
	10	Bottom of boring - 10' bgs		NR			

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA501-SB11

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8283-TO-0169		HOLE NUMBER: CA502-SB01
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1237662.658N 846524.522E	
	9. SURFACE ELEVATION: 4306.1 ft above msl	
	10. DATE STARTED: 1-28-13	11. DATE COMPLETED: 1-28-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 30'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

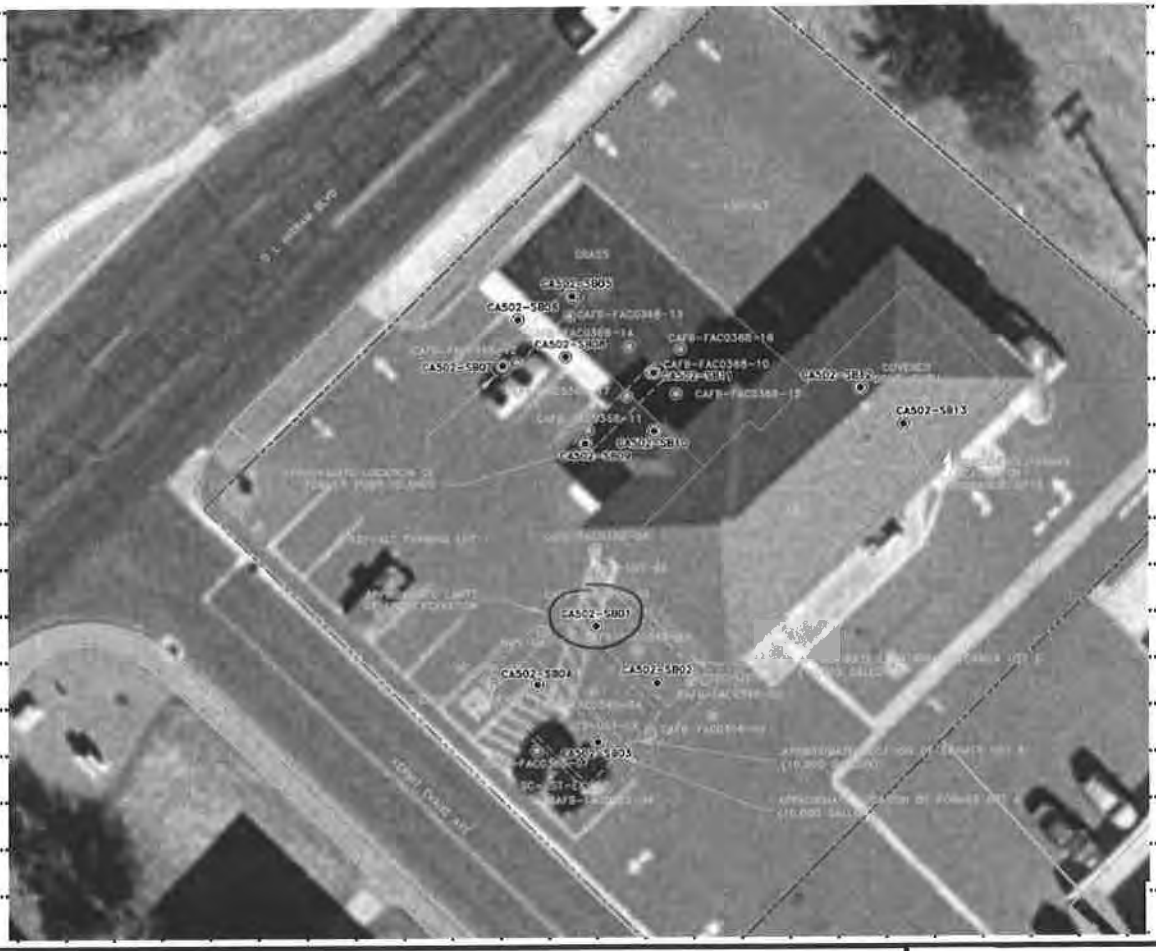
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
6 ~~+ MS/MSD~~	X					NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	SB01

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA502-SB01

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=0.0 HS=0.4		CA502-SB01-004	PP=Pocket Pen	START TIME = 1150 Fill Time (T) 1200 Recovery (R) = 4.0/5.0
	1	Clayey SAND (SC) - Loose, moist, brown, fine-grained, with trace fine gravel					
	2	SAND (SP) - Loose, moist, reddish brown, fine grained					Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, and Lead
	3						
	4	Silty CLAY (CL) - Very stiff, moist, brown, low plastic, with little chunks of light tan clay				PP=3.0	
				NR			
	5	SAND (SP) - Loose, moist, reddish brown, fine	HS=0.1		CA502-SB01-010		T= 1225 R= 5.0/5.0
		Silty CLAY (CL) - Soft, moist, brown, low plastic, with trace gravel					
	6	SAND (SP) - Loose, moist, reddish brown, fine 0.1' of asphalt					
	7						
	8	CLAY (CL) - Very stiff, moist, dark brown, low plastic					
		SAND (SP) - Loose, moist, reddish brown, fine					
	9	CLAY (CL) - Very stiff, moist, dark brown, low plastic, with trace coarse sand 0.1' of sand					
	10						

HTRW DRILLING LOG

HOLE NO. CA502-S801

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M Cline

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
			~~HS=NL~~	NR	~~CA502-S801-015~~		T=1335 R=2.0/5.0 Fill
	11						
	12						
	13	SAND(SP)- Loose, moist, reddish brown, fine	HS=0.4		CA502-S801-015		
	14	CLAY(CL)- Very stiff, moist, dark brown, low plastic, with trace coarse gravel				PP=2.5	
		Silty SAND(SM)- Loose, dry, light tan, poorly sorted, weathered caliche, with abundant calcareous nodules					Native soil
	15		HS=0.3		CA502-S801-020		T=1440 R=5.0/5.0
	16	]0.3' of slightly reddish tan					
	17						
	18	Color becoming more reddish					
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA502-S801

HTRW DRILLING LOG

HOLE NO. CA502-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M Cline

SHEET 4 OF 4 SHEETS

ELEV a	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME: Silty SAND (SM) - Loose, dry, reddish tan, poorly sorted, with abundant calcareous nodules	HS=0.0		CA502-SB01-025		T=1500 R=5.0/5.0 Native soil
	21						
	22						
	23						
	24						
	25		~~HS=NC~~		~~CA502-SB01-AC-030~~		T=1530 R=5.0/5.0
	26				NR		
	27		HS=0.0		CA502-SB01-030		
	28	SILT (ML) - Stiff, dry, tan, low plastic, with abundant calcareous nodules				PP=2.0	
	29						
	30	Bottom of boring - 30' bgs					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA502-SB01

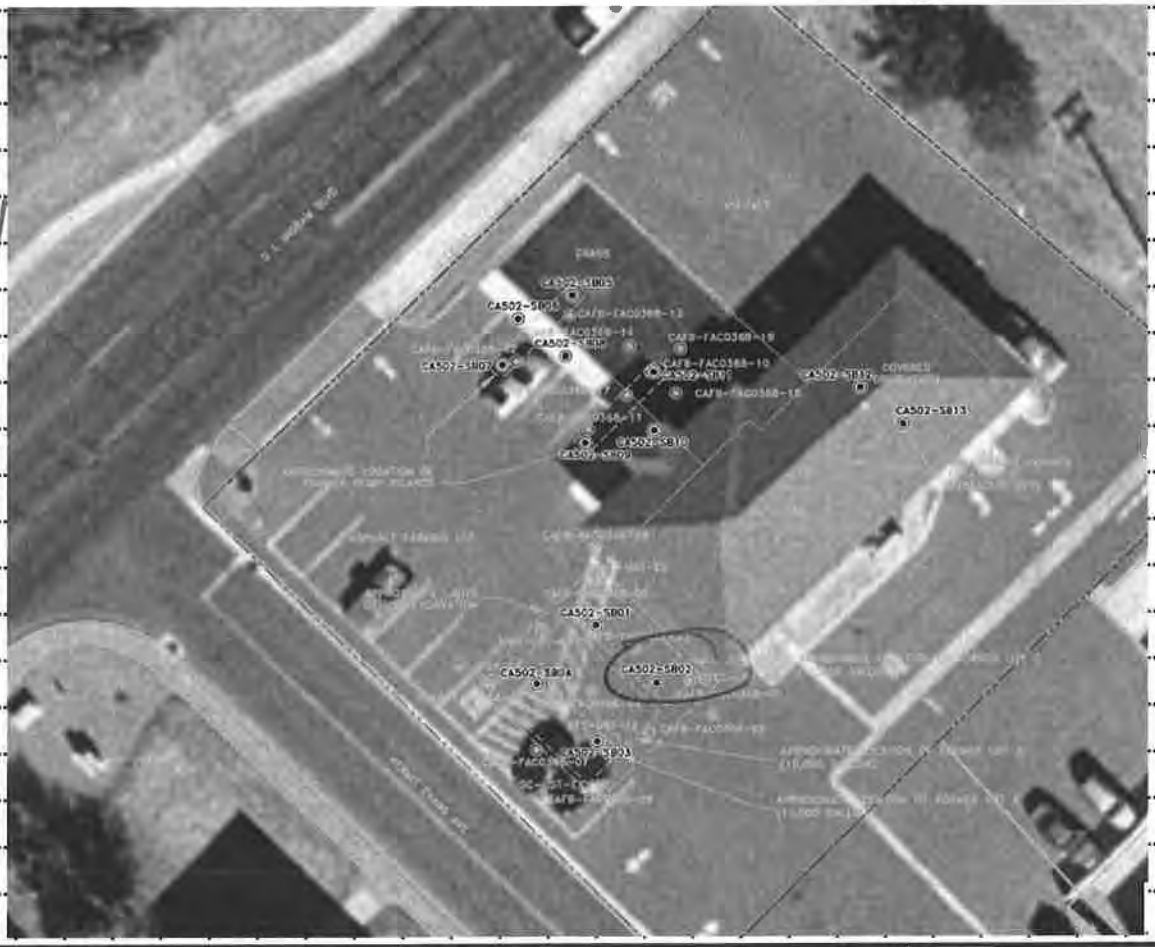
HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8TB3-TO-0169		HOLE NUMBER: CA502-SB02
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA502-SB02, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jesse Kolvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler with a 1 5/8-inch diameter Sample liner		8. HOLE LOCATION: 1237650.332 N, 846537.105 E
		9. SURFACE ELEVATION: 4306.3 ft above msl
		10. DATE STARTED: 1-30-13 @ 1339 / 11. DATE COMPLETED: 1-30-13 @ 1525
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 30 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A
18. GEOTECHNICAL SAMPLES: Ø	DISTURBED: — / UNDISTURBED: —	19. TOTAL NUMBER OF CORE BOXES: N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
6	BTEX + Naphthalene	Lead	Site Specific SVOCs	TPH-GRO/DRO/ORO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA502-SB02

HTRW DRILLING LOG

HOLE NO: CA502-SB02

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	BOTCH SAMPLE OR CORE BOX NO c.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	ASPHALT and GRAVEL	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1339 Time (T) Recovery (R)
	1	Sandy SILT (ML) - Medium Stiff, moist, reddish-brown, low plasticity, fine Sand GRAVEL - Crushed	FS=ND				T= 1345 R= 5.0'/5.0'
	2	SILT (ML) - Stiff, moist, reddish-brown, low plasticity, Some fine sand Sharp color change to pale orange with trace white caliche nodules,	HS=ND		CA502-SB02-005 BTEX & TPH-GRO Collected from the bottom of the Sample interval	PP=2.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, and Lead
	3						Note: HS Screened in 5ft intervals
	4						
	5	Becomes mottled with very light tan caliche, trace fine sand				PP=3.0	T=1405 R=5.0'/5.0'
	6				CA502-SB02-01C		
	7		FS=ND HS=ND		BTEX & TPH-GRO collected from the bottom of the Sample interval		
	8					PP=3.0	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB02

HTRW DRILLING LOG

HOLE NO. CA502-SB02

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer

SHEET 3 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	Same As Above SILT (ML) - Stiff, dry, pale orangish white with very light tan mottling (caliche), fine to coarse caliche nodules, calcareous	FS=ND		CA502-SB02-015 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=2.5	T=1420 R=2.5'/2.5'
	11						
	12						HS=ND
	13		FS=ND				T=1430 R=2.5'/2.5'
	14	13.5 - 14.5 ft bgs - High content of fine to coarse caliche nodules				PP=2.5	
	15	SAND (SP) - loose to medium dense, moist, orangish tan, very fine to fine grain, trace silt Native at 15.1'					HS=ND
	16	Trace Coarse caliche nodules	FS=ND		CA502-SB02-020		T=1436 R=2.5'/3.0'
	17	Increased caliche					
	18					NO Recovery	HS=ND
	19	SILT (ML) - Stiff, dry, pale tannish-white with a high caliche-white content, slight plasticity, calcareous	FS=ND		BTEX, TPH-GRO Collected from the bottom of the sample interval	PP=2.5	T=1442 R=2.0'/2.0'
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB02

HTRW DRILLING LOG

HOLE NO. CA502-SB02

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same As Above SILT (ML) - Stiff, dry, pale tannish-white with a high content of white caliche, slight plasticity	FS=ND		CA502-SB02-025	PP=2.5	T=1457 R=2.5'/2.5'
	21						
	22	Becomes Sandy SILT (ML) - Medium stiff, dry, pale orangish-tan, slight plasticity, fine caliche nodules			TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=1.5	HS=ND
	23	SAND (SP) - medium dense, moist, pale orangish-tan, very fine to fine grain, trace fine silt caliche nodules, trace ~~caliche~~	FS=ND				T=1505 R=2.5'/2.5'
	24						
	25	Increased fine caliche nodules					HS=ND
	26	Darkens to orangish-tan	FS=ND		CA502-SB02-030		T=1518 R=2.5'/2.5'
	27				TPH-GRO, BTEX Collected from the bottom of the sample interval		HS=ND
	28	Silty SAND (SM) - medium dense, moist, tannish-orange, very fine to fine grain, fine white caliche nodules, trace tan caliche mottling					T=1525 R=2.5'/2.5'
	29						
	30	Bottom of Boring @ 30 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

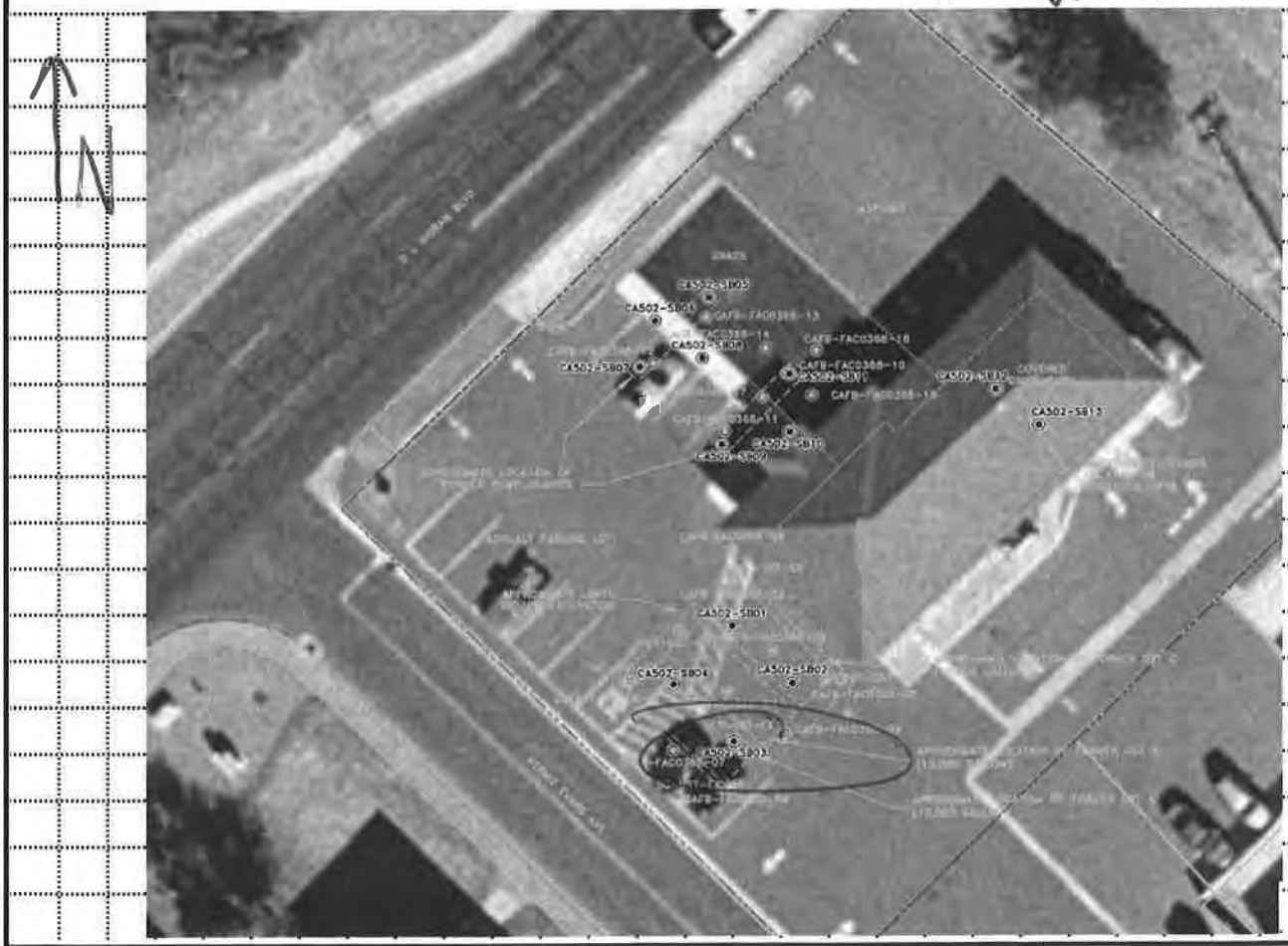
HOLE: CA502-SB02

HTRW DRILLING LOG

DISTRICT	AFCEC-FA8903-08-D-8783-TO-06
HOLE NUMBER	CA502-SB03
1. COMPANY NAME	URS Corp.
2. DRILLING SUBCONTRACTOR	Plains Environmental Services
SHEET / OF / SHEETS	1 OF 4
3. PROJECT	Site Investigation at 8 Sites, Cannon AFB
4. LOCATION	CA502-SB03, Cannon AFB, Clovis, NM
5. NAME OF DRILLER	Jessie Kalvig
6. MANUFACTURE'S DESIGNATION OF DRILL	GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	5-foot Long Macro Core Sampler with a 1 5/8" diameter sample liner
8. HOLE LOCATION	1237637.748N, 846524.779E
9. SURFACE ELEVATION	4306.8 ft above MSL
10. DATE STARTED	2-3-12 @ 1218
11. DATE COMPLETED	2-3-12 @ 1310
12. OVERBURDEN THICKNESS	N/A
13. DEPTH DRILLED INTO ROCK	N/A
14. TOTAL DEPTH OF HOLE	30 feet (ft) below ground surface (bgs)
15. DEPTH GROUNDWATER ENCOUNTERED	Groundwater not Encountered
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	N/A
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A
18. GEOTECHNICAL SAMPLES	0
DISTURBED	—
UNDISTURBED	—
19. TOTAL NUMBER OF CORE BOXES	N/A
20. SAMPLES FOR CHEMICAL ANALYSIS	6 + MS/MSD
VOC	BTEX + Naphthalene
METALS	Lead
OTHER (SPECIFY)	Site-Related SVOCs
OTHER (SPECIFY)	TPH-GRO/ORO/DRO
OTHER (SPECIFY)	
21. TOTAL CORE RECOVERY %	N/A %
22. DISPOSITION OF HOLE	ABANDONED
BACKFILLED	Bentonite Pellets
MONITORING WELL	—
OTHER (SPECIFY)	—
23. SIGNATURE OF INSPECTOR	[signature]

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT	Site Investigation at 8 Sites, Cannon AFB
HOLE	

HTRW DRILLING LOG

HOLE NO. CA502-SB03

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	ASPHALT and CONCRETE	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect			PP=Pocket Pen	START TIME = 1218 Time (T) Recovery (R)
		Silty SAND (SM) - loose, moist, brownish-red, fine grain, (FILL)	BKG=ND				T- 1229 R=5.0'/5.0'
	1	SILT (CL) - Soft, moist, brown, medium plasticity, (FILL)	FS=ND HS=ND		CA502-SB03-005 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=0.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, and Lead
	2						
	3						
		SILT (ML) - Soft, moist, pale orangish-tan, slight plasticity, trace tannish-white mottling					
	4					PP=0.5	
	5						
		Caliche nodules and fine Sand 5.5-8.6 ft bgs, becomes Medium Stiff				PP=2.0	
	6		FS=ND HS=ND		CA502-SB03-010 TPH-GRO, BTEX Collected from the bottom of the sample interval		T= 1240 R=5.0'/5.0'
	7	Increasing Fine Sand					
	8						
		Silty SAND (SM) - Dense, dry-moist, pale orangish-tan, fine grain, Calcareous (clean - no Caliche nodules)					
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB03

HTRW DRILLING LOG

HOLE NO. CA502-SB03

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 3 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	Same As Above					
		Silty SAND (SM) - Dense, moist, pale orangish-tan with trace whitish-tan caliche mottling, fine grain sand, trace fine caliche nodules					
	11				CA502-SB03-015		T= 1247 R= 5.0'/5.0
			FS=ND HS=ND				
	12				TPH-GRO, BTEX Collected from the bottom of the sample interval		
	13						
		Trace Clay Content					
	14	Native @ 14.2					
	15	Becomes Calcareous, Caliche Content is white and the Silty SAND (SM) darkens to brownish-red					
			FS=ND HS=ND				
	16				CA502-SB03-020		T= 1250 R=2.5'/2.5'
	17				TPH-GRO, BTEX collected from the bottom of the sample interval		
	18		FS=ND HS=ND				T= 1259 R=2.5'/2.5'
	19						
	20						

HTRW DRILLING LOG

HOLE NO. CA502-SB03

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jenifer L Allen

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same As Above Silty SAND (SM) - Dense, dry, brownish-red sand and white caliche, fine grain, trace caliche nodules	FS=ND HS=ND		CA502-SB03-025		T=1302 R=2.5'/2.5'
	21						
	22	Increased caliche nodules			TPH-GRO, BTEX collected from the bottom of the sample interval		
	23		FS=ND HS=ND				T=1305 R=2.5'/2.5'
	24						
	25		FS=ND HS=ND		CA502-SB03-030 with extra volume for MS/MSD		T=1308 R=2.5'/2.5'
	26						
	27	Caliche nodules become trace, Sand becomes very fine grain			TPH-GRO, BTEX collected from the bottom of the sample interval		
	28		FS=ND HS=ND				T=1310 R=2.5'/2.5'
	29						END TIME = 1310
	30	Bottom of Boring @ 30ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB03

HTRW DRILLING LOG

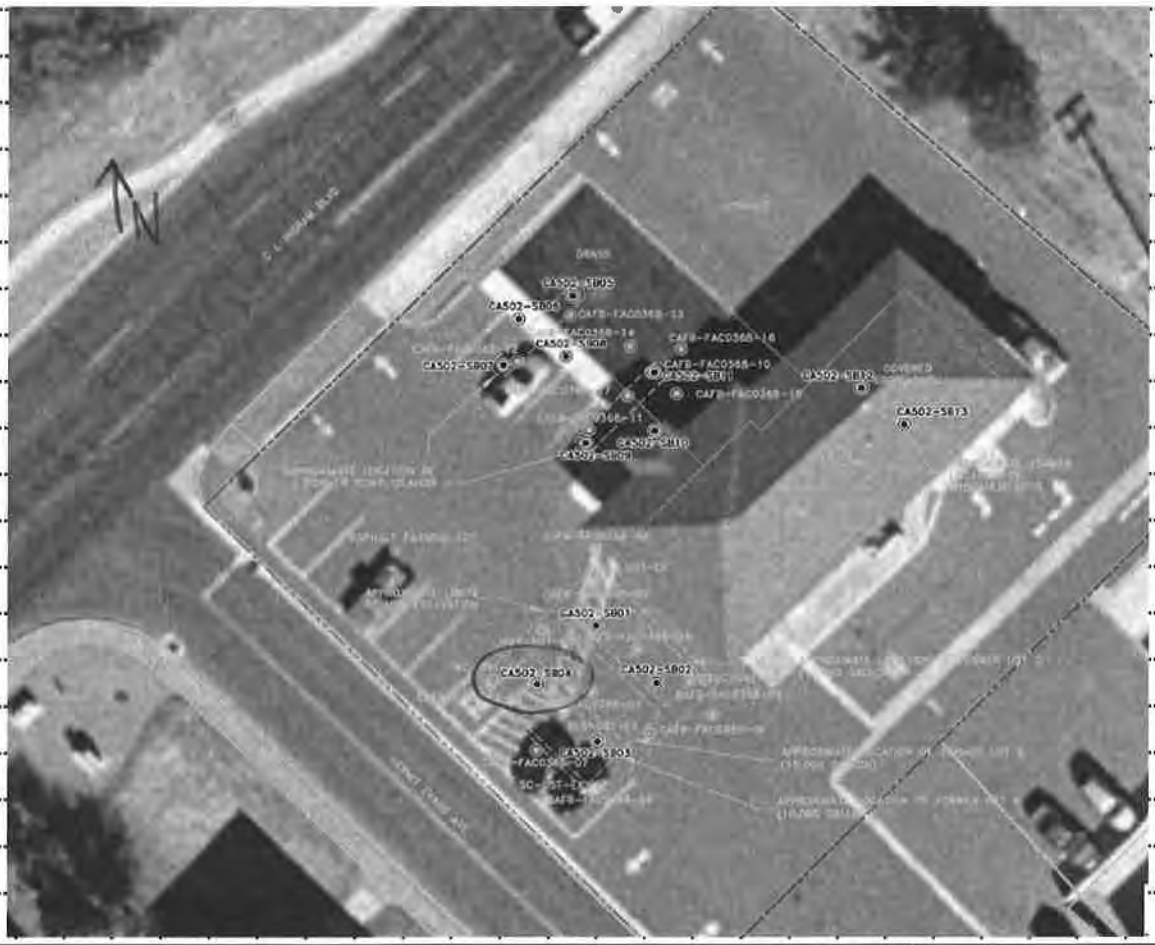
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA502-SB04	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA502-SB04, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jesse Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long, Macro Core Sampler with 1 5/8" diameter sample liner	8. HOLE LOCATION: 1237650.075 N, 846512.195 E	
	9. SURFACE ELEVATION: 4306.5 ft above msl	
	10. DATE STARTED: 1/28/13 @ 1150	11. DATE COMPLETED: 1/28/13 @ 1400
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater Not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 30 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
7	BTEX + Napthalene	Lead	Site-Related SVOCs	TPH-GRO/DRO/ORO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA502-SB04

HTRW DRILLING LOG

HOLE NO. CA502-SB04

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jenifer Zeller

SHEET 2 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. c.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	ASPHALT (Bank parking lot)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1150 Time (T) Recovery (R)
	1	Silty SAND (SM) - Dense, moist, tan, fine grain (sub-slab material)					T=1155 R=4.2'/5.0'
	2	SAND (SP) - Medium dense, moist, Brownish-red, fine grain to very fine grain, trace silt	HS=ND FS=ND		CA502-SB04-005 BTEX, TPH-GRO collected @ the bottom of the sample interval		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, and Lead
	3	trace caliche nodules - fine					
	4					NO Recovery	
	5	Some silt, becomes brown			CA502-SB04-008		T=1202 R=4.5'/5.0'
	6		HS=ND FS=ND		BTEX, TPH GRO collected @ the bottom of the sample interval, @ 1205		
	7	Trace coarse caliche nodules Becomes brownish-grey					
	8	light to moderate hydrocarbon odor 8.0 - 9.5 ft bgs	HS=ND FS=25 ppm		CA502-SB04-010 TPH-GRO, BTEX collected from 8-9ft bgs @ 1202		
	9	Clayey SILT (ML) - Stiff, moist, grey, low plasticity		PP=3.0		PP=3.0	
	10	SAND (SP) - Medium dense, moist, reddish-brown, fine grain (No Hydrocarbon odor)				NO Recovery	

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB04

HTRW DRILLING LOG

HOLE NO. CA502-SB04

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Dall

SHEET 3 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
	10	SAME as Above SAND (SP) - Medium dense, moist, reddish-brown, fine grain	FS=ND				T= 1250 R= 2.0'/2.0'
	11	CONCRETE (Rubble)			Concrete not included in sample		
	12						
	13	SAND (SP) - Medium dense, moist, pale orangish-tan, very fine to fine grain, some clay Native @ 13.4	FS=ND HS=ND		CA502-SB04-015 TPH GRO BTEX Collected @ the bottom of the sample interval		T=1257 R= 3.0'/3.0'
	14						
	15						
	16				CA502-SB04-020		T= 1320 R=5.0'/5.0'
	17		FS=ND HS=ND		TPH-GRO BTEX Collected from the bottom of the sample interval		
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB04

HTRW DRILLING LOG

HOLE NO. CA502-SB04

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 4 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same As Above SAND(SP)- Medium dense, moist, pale orangish-tan, very fine to fine grain, some clay					
	21		FS=ND		CA502-SB04-025 TPH-GRO, BTEX Collected @ the bottom of the sample interval	PP=2.0	T=1329 R=3.0'/3.0'
	22	CALICHE - Hard, broken-angular pieces, white, dry					
		Sandy SILT (ML)- Medium Stiff, dry, pale orangish-white, slight plasticity, very fine sand with fine caliche nodules, Calcareous					
	23	Some thin interbedded Caliche layers, some Clay 23-25 ft bgs	HS=ND FS=ND			PP=2.0	T=1335 R=2.0'/2.0'
	24						
	25						
	26				CA502-SB04-030 TPH-GRO, BTEX Collected from the bottom of the sample interval		T=1400 R=5.0'/5.0'
	27		FS=ND HS=ND			PP=2.0	
	28						
	29						END TIME=1400
	30	Bottom of Boring @ 30 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB04

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA502-SB05
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA502-SB05, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler with a 1 5/8" diameter sample liner		8. HOLE LOCATION: 1237733.460N, 846519.618E
		9. SURFACE ELEVATION: 4305.3 ft (NAVD 88 msl)
		10. DATE STARTED: 2-1-13@ 0810 / 11. DATE COMPLETED: 2-1-13@ 1015
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater Not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 30 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

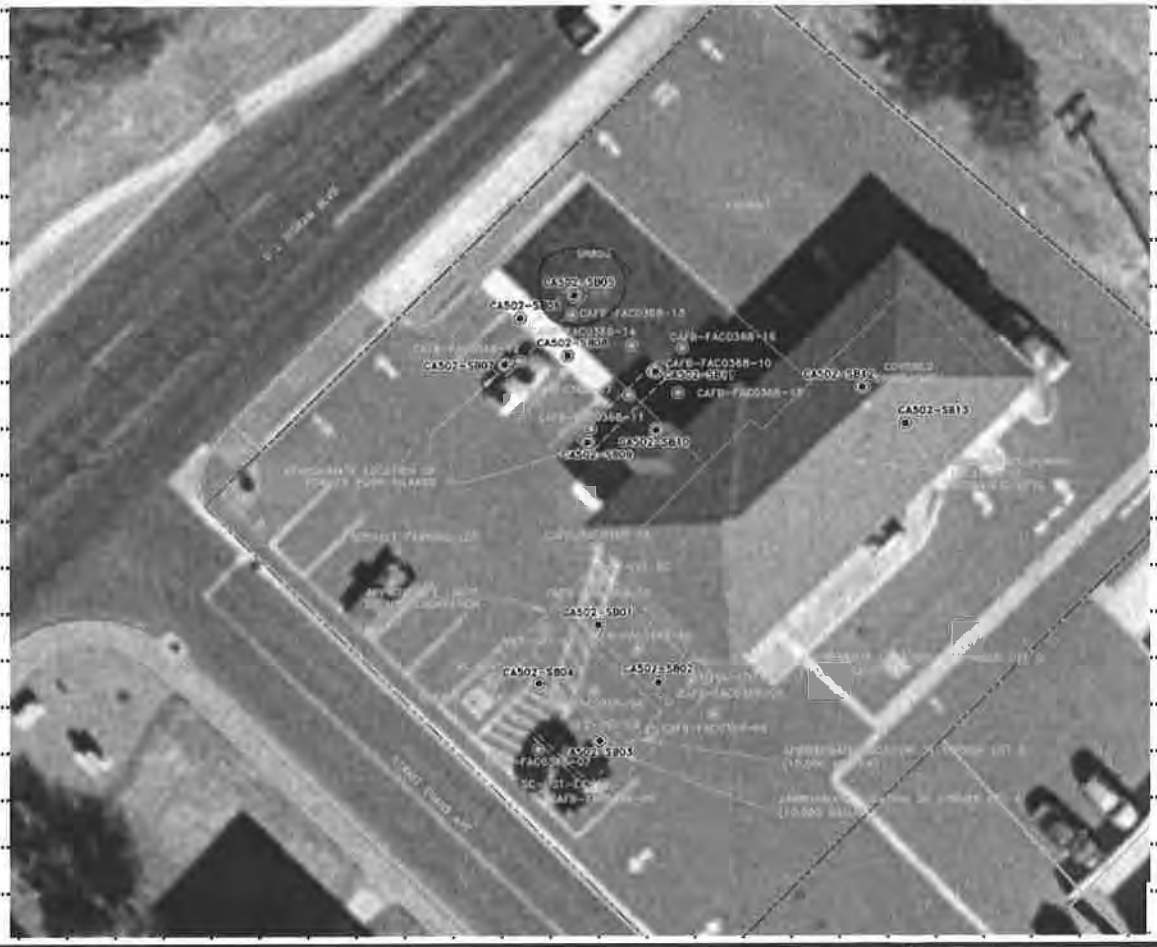
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
7	BTEX + Naphthalene	Lead	Site Specific SVOCs	TPH-GRO/DRO/ORO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer [illegible]

LOCATION SKETCH/COMMENTS

SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA502-SB05

HTRW DRILLING LOG

HOLE NO. CA502-SB05

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer Miller

SHEET 1 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Clayey-Sandy SILT (ML-CL)- Soft, moist, orangish-dark brown low to medium plasticity, fine grain sand, some concrete debris (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG = ND FS = ND			PP=Pocket Pen	START TIME = 0810 Time (T) Recovery (R)
	1				CA502-SB05-005 and Duplicate CA502-SB05-005 @ false time 0780 TPH-GRO, BTEX collected from the bottom of the sample interval	PP=0.5	T=0820 *R=4.0'/5.0'
	2	Large (coarse) concrete pieces 2.3-2.6 ft bgs Native @ 2.6 ft bgs	HS=ND				Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, and Lead
	3	SILT (ML) - Soft, moist, brown with tan mottling, low plasticity, some very fine sand				PP=1.0	* Low recovery due to the compression of soft material
	4					NO Recovery	
	5				CA502-SB05-010 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=1.0	
	6	fine to coarse caliche nodule layer from 5.5'-7.0', Trace Silt					T=0841 R=4.2'/5.0'
	7	Becomes Medium stiff, lightens to pale orangish-tan	HS=ND			PP=1.5	
	8						
	9					NO Recovery	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB05

HTRW DRILLING LOG

HOLE NO. CA502-SB05

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Hall

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same As Above SILT (ML) - Medium stiff, moist, pale orangish-tan, slight plasticity, some fine caliche nodules				PP=2.0	T=0850 R=2.5'/2.5'
	11		FS=ND HS=ND		CA502-SB05-015 TPH-GRO, BTEX Collected from the bottom of the sample interval		
		Becomes Calcareous, color lightens to pale tannish-white					
	12						
		Increased Caliche nodules, becomes stiff					
	13		FS=ND HS=ND			PP=2.5	T=0900 R=2.5'/2.5
	14						
	15						T=0918 R=2.5'/2.5'
	16	Becomes sandy, fine grain	FS=ND HS=ND		CA502-SB05-020 TPH-GRO, BTEX Collected from the bottom of the sample interval		
	17						
	18		FS=ND HS=ND				T=0923 R=2.5'/2.5'
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB05

HTRW DRILLING LOG

HOLE NO. CA502-SB05

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer L Allen

SHEET 4 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same As Above SILT (ML) - Stiff, moist, pale tan with brownish-red silty sand mottling, slight plasticity, trace caliche nodules	FS=ND HS=ND		CA502-SB05-025 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=2.5	T=0935 R=2.5'/2.5'
	21						
	22						
	23		FS=ND HS=ND			PP=2.5	T=0950 R=2.5'/2.5'
	24						
	25	Increased Reddish-brown silty sand mottling	FS=ND HS=ND		CA502 SB05-030 TPH-GRO, BTEX Collected from the bottom of the sample interval		T=1010 R=2.5'/2.5'
	26	Becomes a Sandy SILT (ML)					
	27						
	28	Silty SAND (SM) - medium dense, dry, pale orangish tan, fine grain	FS=ND HS=ND				T=1015 R=2.5'/2.5'
	29						END TIME = 1015
	30	Bottom of Boring @ 30ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB05

HTRW DRILLING LOG

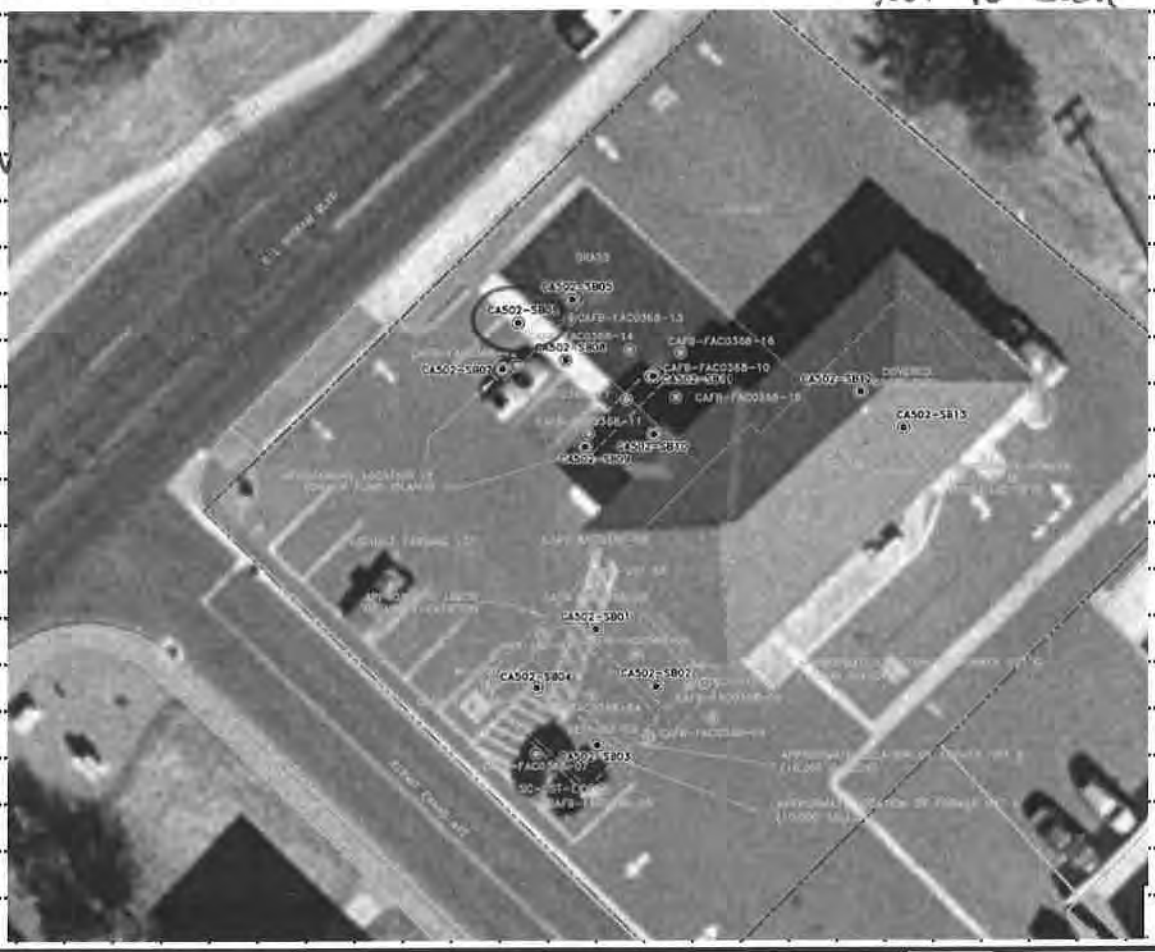
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0069	HOLE NUMBER: CA502-SB06	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA502-SB06, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Macro Core Sampler with a 1 5/8" diameter Sampler liner	8. HOLE LOCATION: 1237728.478 N, 846508.404 E	
	9. SURFACE ELEVATION: 4305.5 ft above MSL	
	10. DATE STARTED: 1/31/13 @ 0930	11. DATE COMPLETED: 1/13/13 @ 1103
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 30 ft bgs (feet below ground surface)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø			N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
6	BTEX + Naphthalene	Lead	Site Related SVOCs	TPH-GRO, DRO, ORO		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	Jennifer [illegible]

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA502-SB06

HTRW DRILLING LOG

HOLE NO. CA502-SB06

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	ASPHALT	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect			PP=Pocket Pen	START TIME = 0930 Time (T) Recovery (R)
		CONCRETE and GRAVEL (GP)	BKG=ND				
	1	Sandy SILT (CL) - Soft, moist, dark brown, low to medium plasticity, fine sand, trace fine gravel (FILL)	FS=ND		CA502-SB06-005 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=0.5	T=0940 R=4.5'/5.0' Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, and Lead
	2		HS=ND				
		Native Surface @ 3.0 ft bgs					
	3	SILT (ML) - Soft to Medium Stiff, moist, light orangish tan with whitish-tan ~~colors~~ mottling, slight plasticity				PP=1.0	
	4						
						NO Recovery	
	5	Becomes Medium Stiff			CA502-SB06-010 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=2.0	T=0958 R=4.2'/5.0'
	6		FS=ND HS=ND				
	7					PP=2.0	
	8						
	9					NO Recovery	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB06

CA502-

HTRW DRILLING LOG

HOLE NO. SB06

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	~~SAME AS ABOVE~~ SILT and CALICHE (ML) - Stiff, dry, white, no plasticity, Caliche present in layers and fine to coarse nodules	FS=ND HS=ND		CA502-SB06-015 TPH-GRO, BTEX Collected from the bottom of the Sample interval	PP=2.5	T=1008 R=2.5'/2.5'
	11						
	12						
	13		HS=ND FS=ND			PP=2.5	T=1012 R=2.5'/2.5'
	14						
	15	SILT (ML) - Stiff, dry, pale orangish-tan with white Caliche mottling, slight plasticity, calcareous	FS=ND HS=ND		CA502-SB06-020 TPH-GRO, BTEX Collected from the bottom of the Sample interval	PP=2.0	T=1025 R=2.5'/2.5'
	16						
	17						
	18		FS=ND HS=ND			PP=2.0	T=1033 R=2.5'/2.5'
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB06

HTRW DRILLING LOG

HOLE NO. CA502-SB06

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Miller

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	SILT (ML)- Stiff, dry, pale orangish tan with brownish-red silty sand mottling, slight plasticity, calcareous					
	21		FS=ND HS=ND		CA502-SB06-025	PP=2.5	T=1039 R=2.5'/2.5
	22				TPH-GRO, BTEX Collected from the bottom of the sample interval		
	23		FS=ND HS=ND			PP=2.5	T=1045 R=2.5'/2.5'
	24						
	25	Increased brownish-red silty sand mottling					
	26		FS=ND HS=ND		CA502-SB06-030	PP=3.0	T=1056 R=2.5'/2.5'
	27				TPH-GRO, BTEX Collected from the bottom of the sample interval		
	28		FS=ND HS=ND			PP=3.0	T=1103 R=2.5'/2.5
	29						
	30	Bottom of Boring @ 30 ft bgs					END TIME = 1103

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB06

HTRW DRILLING LOG

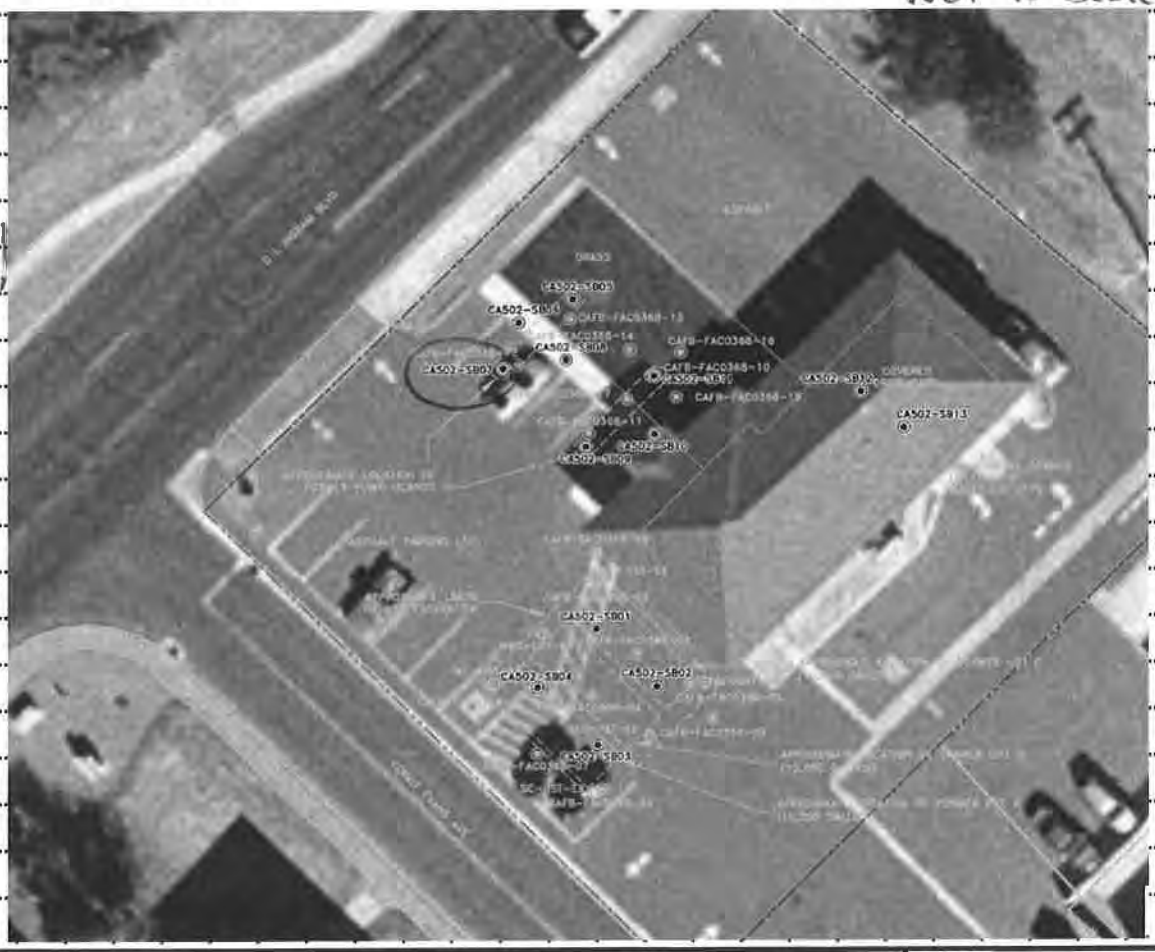
DISTRICT	AFCEC-FA8903-08-D-8783-TO-0169
HOLE NUMBER	CA502-SB07
1. COMPANY NAME	URS Corp.
2. DRILLING SUBCONTRACTOR	Plains Environmental Services
SHEET / OF / SHEETS	1 OF 4
3. PROJECT	Site Investigation at 8 Sites, Cannon AFB
4. LOCATION	CA502 - SB07, Cannon AFB, Clovis, NM
5. NAME OF DRILLER	Jessie Kalvig
6. MANUFACTURE'S DESIGNATION OF DRILL	GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	5 ft long Macro Core Sampler with a 1 5/8" Sample liner
8. HOLE LOCATION	1237718.577 N, 846505.194 E
9. SURFACE ELEVATION	4305.5 ft above msl
10. DATE STARTED	1/31/13 @ 1243
11. DATE COMPLETED	1/31/13 @ 1415
12. OVERBURDEN THICKNESS	N/A
15. DEPTH GROUNDWATER ENCOUNTERED	Groundwater not Encountered
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	N/A
14. TOTAL DEPTH OF HOLE	30 feet (ft) below ground surface (bgs)
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A
18. GEOTECHNICAL SAMPLES	∅
DISTURBED	—
UNDISTURBED	—
19. TOTAL NUMBER OF CORE BOXES	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
7	BTEX + Naphthalene	Lead	Site-Related SVOCs	TPH-GRO, ORO, DRO		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	Jennifer Allen

LOCATION SKETCH/COMMENTS

SCALE: Not To Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA502-SB07

HTRW DRILLING LOG

HOLE NO. CA502-SB07

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer L Allen

SHEET 2 OF SHEETS 4

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	ASPHALT	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect			PP=Pocket Pen	START TIME = 1243
		CONCRETE and GRAVEL (GP)	BKG=ND				Time (T) Recovery (R)
	1	SAND (SP) - loose, moist, brownish-red, fine grain, trace silt			CA502-SB07-005		T= 1250 R= 5.0'/5.0'
		Becomes Brown, increased silt	FS=ND HS=ND		and Duplicate CA502-SB507-005		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, and Lead
	2						
	3	Sandy SILT (ML) - medium stiff, moist, brown, low plasticity, fine sand			TPH-GRO, BTEX Collected from the bottom of the sample interval		
	4	SHARP Color change @ 3.5ft bgs Becomes pale greyish-tan, some caliche nodules (Native Surface @ 3.5ft bgs)					
	5	Becomes Calcareous, color changes to pale orangish-tan with increased fine caliche nodules					
	6		FS=ND HS=ND		CA502-SB07-010		T= 1300 R= 4.5'/5.0'
	7				TPH-GRO, BTEX Collected from the bottom of the sample interval		
	8	Decreased sand content					
	9	Becomes SILT (ML) - calcareous					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB07

HTRW DRILLING LOG

HOLE NO. CA502-SB07

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same as above SILT (ML) - Stiff, dry, pale orangish tan with high caliche content (calcareous), slight plasticity, trace reddish-brown silty sand				PP=2.5	
	11						T=1311 R=5.0'/5.0'
	12		FS=ND HS=ND		CA502-SB07-015 TPH-GRO, BTEX collected from the bottom of the sample interval		
	13					PP=2.5	
	14						
	15	Some fine to coarse caliche nodules					
	16				CA502-SB07-016	PP=3.0	T=1333 R=5.0'/5.0'
	17		FS=ND HS=ND		TPH-GRO BTEX collected from the bottom of the sample interval		
	18						
	19	Becomes reddish-brown due to increased silty SAND				PP=2.5	
	20						

HTRW DRILLING LOG

HOLE NO CA502-SB07

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer [illegible]

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Sandy SILT (ML) - Medium Stiff, dry, reddish-brown with pale tan caliche mottling, fine grain, fine to coarse caliche nodules				PP=2.0	
	21		FS=ND HS=ND		CA502-SB07-0.25		T=1338 R=2.5'/2.5'
	22				TPH-GRO, BTEX collected from the bottom of the sample interval		
	23		FS=ND HS=ND			PP=2.5	T=1348 R=2.5'/2.5'
	24						
	25						
	26	Increased reddish-brown sand	FS=ND HS=ND		CA502-SB07-0.30	PP=2.0	T=1400 R=2.5'/2.5'
	27				TPH-GRO, BTEX collected from the bottom of the sample interval		
	28		FS=ND HS=ND			PP=2.0	T=1415 R=2.5'/2.5'
	29						
	30	Bottom of Boring @ 30 ft bgs					END TIME= 1415

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA502-SB07

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA502-SB08
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1237720.429N 846578.221E	
	9. SURFACE ELEVATION: 4305.5 ft above msl	
	10. DATE STARTED: 1-30-13	11. DATE COMPLETED: 1-30-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 30'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

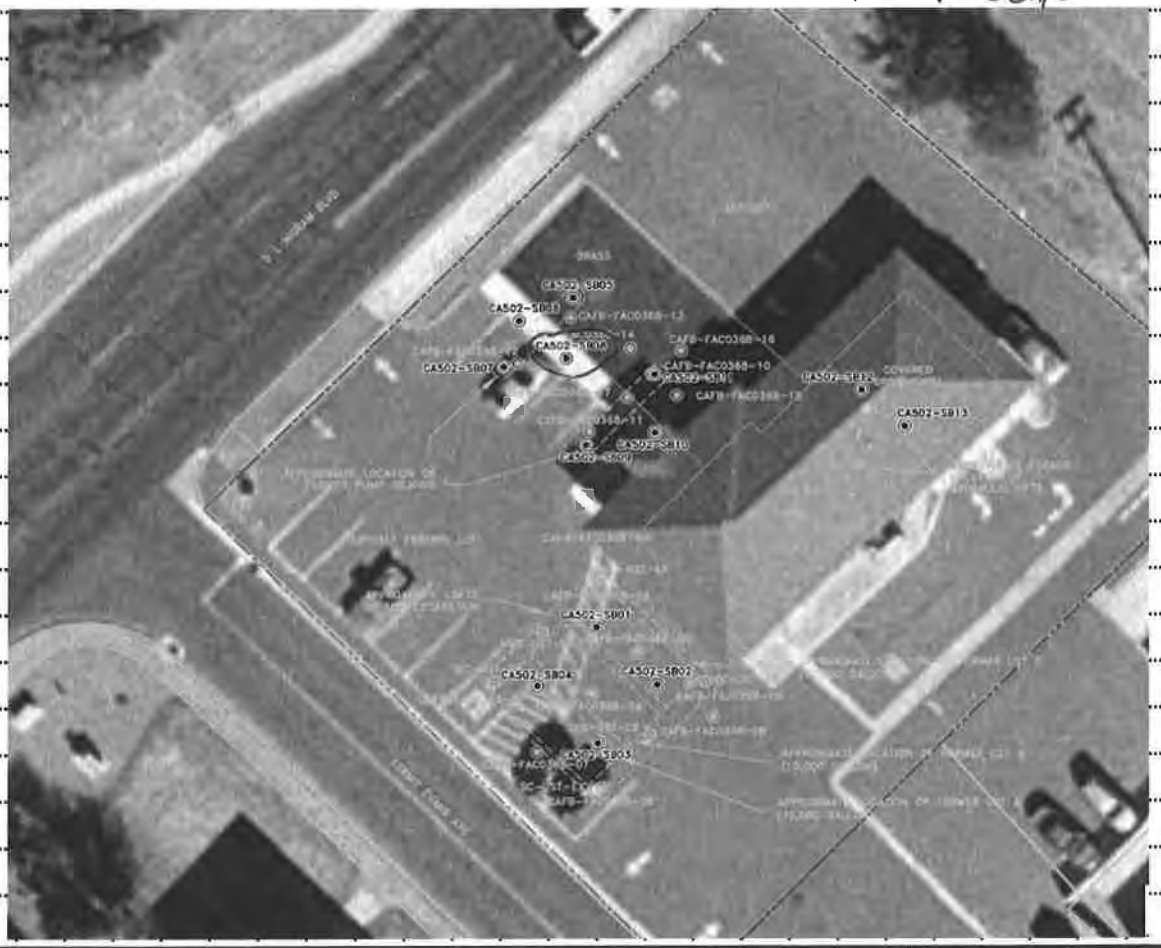
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
6 + MS/MSD	—	Lead	Site-related SVOCs	TPH-GRO, DRO, ORO	BTEX-Naphthalene	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Mitch Cline

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA502-SB08

HTRW DRILLING LOG

HOLE NO. CA502-SB08

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA502-SB08-005	PP=Pocket Pen	START TIME = 1220
		Concrete		HS=			Time (T) = 1245 Recovery (R) 4.6/5.0
	1	Gravelly SAND (SP) - loose, dry, white, poorly sorted	BKG = ND HS = ND				Fill
		Becomes a silty sand, with no gravel, and moist reddish brown					
		with increasing silt and lightening in color					Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, and Lead
	2						
	3						
	4	SILT (ML) - Stiff, moist, light tan, low plastic, with calcareous nodules (coarse sand-sized)				PP=2.0	
				NR			
	5		HS = ND		CA502-SB08-010		T=1305 R=4.6/5.0
		Becomes light brown					
	6	With increasing clay					
	7	no more calcareous nodules, with fine sand					
	8						
	9						
				NR			
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB08

HTRW DRILLING LOG

HOLE NO. CA502-SB08

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Clayey SILT (ML) - Stiff, moist, reddish brown, low plastic	HS=0.1		CA502-SB08-015	PP=2.0	T=1325 R=5.0/5.0 Fill
		With decreasing clay					
	11	With trace medium gravel					
		With gravel					
	12	Becomes tan, with sand and gravel-sized calcareous nodules				PP=2.0	Start native soil
	13						
		Becomes light tan					
	14					PP=2.0	
	15	Becomes dry	HS=ND		CA502-SB08-018		T=1535 R=3.0/5.0
	16	With large calcareous nodules (~1" in diameter)				PP=2.5	
	17						
	18						
	19			NR			
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB08

HTRW DRILLING LOG

HOLE NO. CA502-SB08

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: M Cline

SHEET 4 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME: SILT (ML) - Stiff, dry, light tan, low plastic, with calcareous nodules	HS = N.D		CA502-SB08-025		T = 1610 R = 5.0/5.0
	21					PP = 1.0	
	22	Becomes hard				PP = 4.0	
		Becomes stiff, reddish tan					
	23					PP = 1.5	
	24						
	25	with increasing sand	HS = N.D		CA502-SB08-030 +MS/MSD		T = 1630 R = 5.0/5.0
	26	Becomes reddish brown, with patches of tan				PP = 2.0	
	27						
	28					PP = 1.5	
	29						
	30	Bottom of boring - 30' bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB08

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA502-SB09	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA502-SB09, Cannon AFB, Clovis NM	
5. NAME OF DRILLER: Jessie Kolvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 66 20 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" ø diameter sample liner	8. HOLE LOCATION: 1237701.813 N, 846522.318 E	
	9. SURFACE ELEVATION: 4305.5 ft above MSL	
	10. DATE STARTED: 2-1-13@1335	11. DATE COMPLETED: 2-1-13@1520
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater Not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 30 feet (ft) below ground surface	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

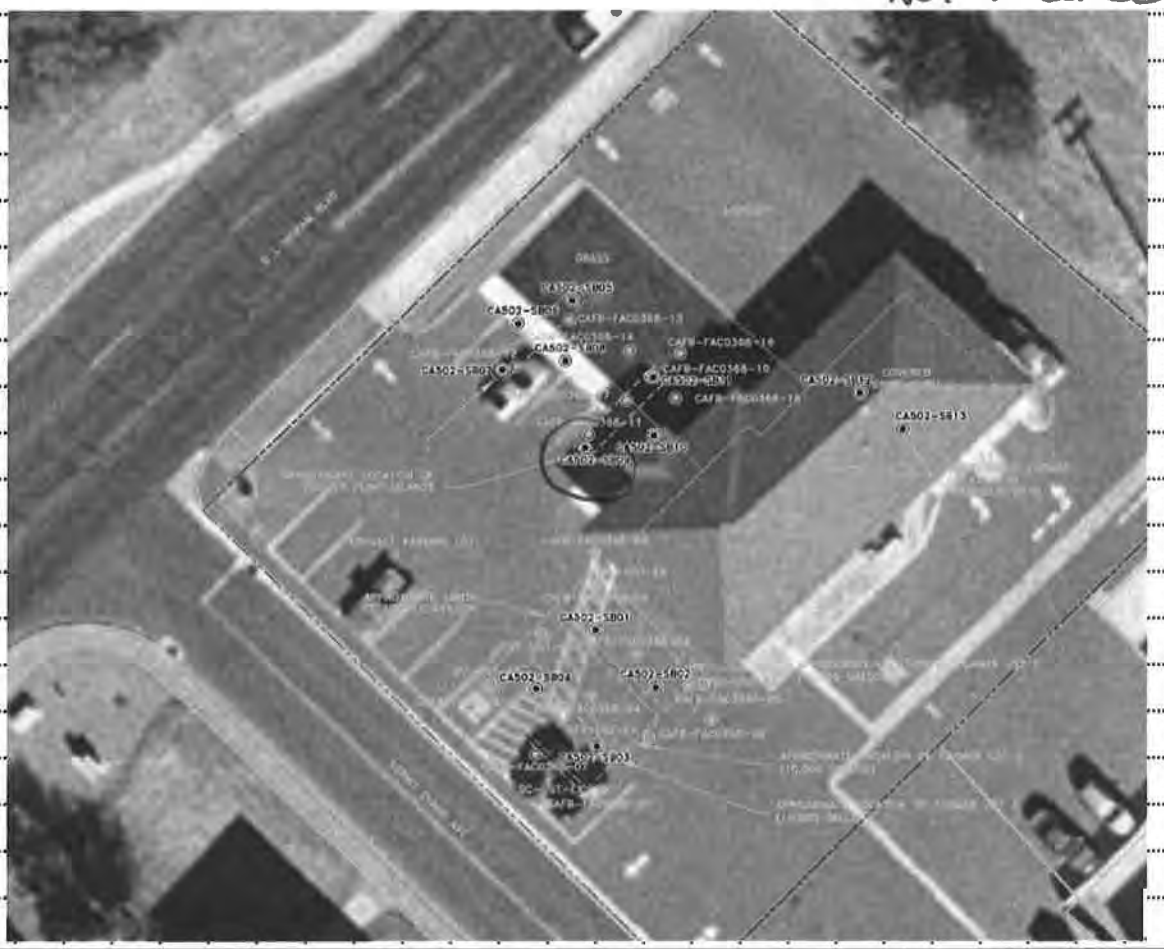
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	1		N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
8	BTEX + Naphthalene	Lead	Site Specific SVOCs	TPH-GRO/ORO/DRO		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA502-SB09

HTRW DRILLING LOG

HOLE NO. CA502-SB09

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jenny [illegible]

SHEET 2 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	ASPHALT (Bank Parking Lot)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect			PP=Pocket Pen	START TIME = 1335
		Concrete	BKG=ND			PP=2.0	Time (T) Recovery (R)
	1	Sandy SILT (ML) - Stiff, moist, light brown, slight plasticity, fine sand, trace fine gravel			CA502-SB09-005		T=1345 R=4.5'/5.0'
	2		FS=ND HS=ND		TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=2.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, and Lead
	3						Note: HS measured in 5-ft intervals
	4	Native @ 4.0 ft bgs, becomes mottled with tan				PP=2.5	
						NO Recovery	
	5	Becomes SILT (ML) - Stiff, moist, Pale orange with tan mottling, Slight plasticity				PP=3.0	
	6				CA502-SB09-010		T=1355 R=4.1'/5.0'
	7		FS=ND HS=ND		TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=2.5	
	8						
	9						
						NO Recovery	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: SB09

HTRW DRILLING LOG

HOLE NO: CA502-SB09

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [signature]

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	SILT (ML)- Medium stiff, dry, pale tannish-white, No plasticity, Laminated Caliche layers 10'-15', Calcareous	FS=ND		CA502-SB09-015	PP=2.0	T= 1350 R= 2.0'/2.0'
	11						
	12	Increased SILT			TPH-GRO, BTEX Collected at 12 ft bgs		HS= ND
	13		FS=ND			PP=2.0	T= 1415 R= 3.0'/3.0'
	14						
	15						
	16		FS=ND		CA502-SB09-020	PP=1.5	T=1420 R=2.5'/2.5'
	17				Duplicate CA502-SB09-020 @ false time 0830		HS= ND
	18		FS=ND		TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=2.0	T=1440 R=2.5'/2.5
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB09

HTRW DRILLING LOG

HOLE NO. CA502-SB09

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same As Above SILT(ML) - stiff, dry, pale tannish-white, No plasticity, calcareous	FS=ND		CA502-SB09-025, duplicate CA502-SB509-025 @ false time 0900	PP=2.5	T=1351 R=2.5'/2.5'
	21						
	22	Some fine Sand (tan)					
		Sand (SP) - loose, moist, tan, fine grain					HB=ND
	23						
		Some Silt and Caliche nodules	FS=ND		TPH-GRO, BTEX collected from the bottom of the sample interval		T=1500 R=2.5'/2.5'
	24						
	25				CA502-SB09-030 TPH-GRO, BTEX Collected from the bottom of the sample interval		T=1510 R=2.5'/2.5'
	26	Becomes clean (no caliche or SILT), sand becomes reddish-tan	FS=ND				
	27						HB=ND
	28		FS=ND				T=1520 R=2.5'/2.5'
	29						
	30	Bottom of Boring @ 30 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB09

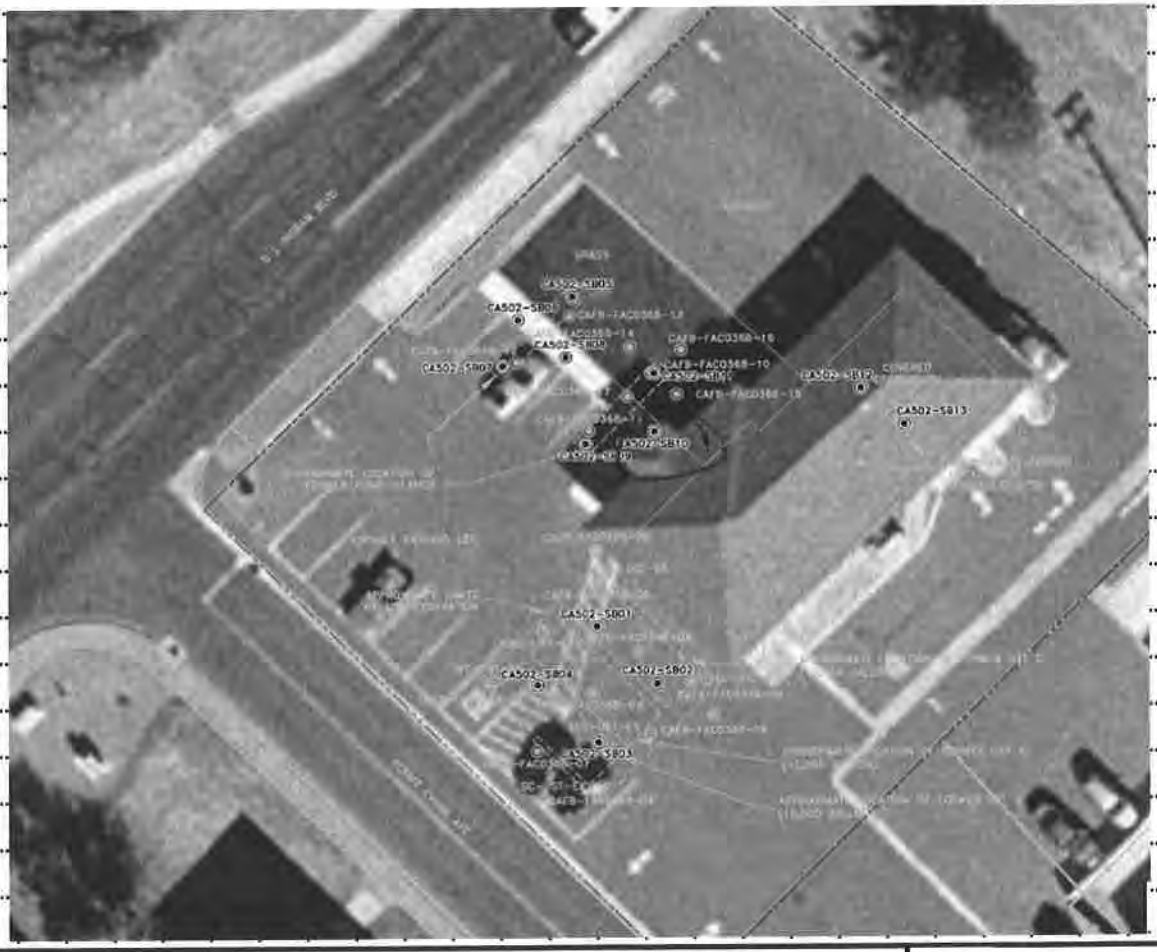
HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8763-TO-069		HOLE NUMBER: CA502-SB10
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA502-SB10, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Macro Core Sampler with a 1 5/8" diameter Sample liner		8. HOLE LOCATION: 1237704.465 N, 846536.664 E
		9. SURFACE ELEVATION: 4305.5 ft above MSL
		10. DATE STARTED: 2-3-13 @ 1354 / 11. DATE COMPLETED: 2-3-13 @ 1450
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater Not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 30 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A
18. GEOTECHNICAL SAMPLES: Ø	DISTURBED: Ø / UNDISTURBED:	19. TOTAL NUMBER OF CORE BOXES: N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
6	BTEX+Naphthalene	Lead	Site Specific	VOCs	TPH-GRO/ORDRO	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	

LOCATION SKETCH/COMMENTS — SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA502-SB10

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA502-SB10

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer A

SHEET 2 OF SHEETS 4

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	SILT (CL) - Soft, wet, dark brown medium plasticity (Top Soil - FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG= ND			PP=Pocket Pen PP=0.5	START TIME = 1354 Time (T) Recovery (R)
	1						T=1400 *R=3.5'/5.0'
	2		FS=ND HS=ND		CA502-SB10-005 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=0.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO * low recovery based on the compression of the soft/wet material
	3	Native @ 3.4 ft bgs					
	4	SILT (ML) - Stiff, dry, pale orangish-tan with high white caliche content, Slight plasticity, calcareous				PP=2.5	
	5						
	6		FS=ND HS=ND		CA502-SB10-010 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=3.5	T=1408 R=4.1'/5.0'
	7	Sharp change in SILT @ 7.3 ft bgs					
	8	Becomes Soft, wet, clean (no caliche nodules / Not calcareous), Some reddish-brown sand mottling, Iron banding (very thin) 7.3-7.5 ft bgs				PP=0.5	
	9					NO Recovery	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB10

HTRW DRILLING LOG

HOLE NO. CA502-SB10

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Sandy SILT (ML) - Stiff, moist, Pale orangish tan with white caliche (calcareous), slight plasticity, fine sand	FS=ND HS=ND		CA502-SB10-015 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=3.5	T=1420 R=2.5'/2.5'
	11						
	12						
	13		FS=ND HS=ND			PP=3.0	T=1423 R=2.5'/2.5'
	14	Silty SAND (SM) - Medium dense, moist, orangish-tan, fine grain with fine caliche nodules					
	15	Lighters to pale tan, caliche nodules become trace, decreased silt					
	16	SAND (SP) - Dense dry to moist, pale tan, very fine to fine grain, some fine to coarse caliche nodules	FS=ND HS=ND		CA502-SB10-020 TPH-GRO, BTEX Collected from the bottom of the sample interval		T=1430 R=2.5'/2.5'
	17						
	18		FS=ND HS=ND				T=1435 R=2.5'/2.5'
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB10

HTRW DRILLING LOG

HOLE NO. CA502-SB10

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 4 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same As Above SAND (SP) - Dense, moist, pale orangish tan with some white caliche mottling, very fine to fine grain, some fine to coarse caliche nodules	FS=ND HS=ND		CA502-SB10-025 TPH-GRO, BTEX Collected from the bottom of the sample interval		T= 1437 R=2.5'/2.5'
	21						
	22	Darkens to orangish-tan and becomes clean (No Caliche)					
	23		FS=ND HS=ND				T= 1439 R=2.5'/2.5'
	24						
	25	Darkens to reddish-orange with trace orange caliche nodules					
	26		FS=ND HS=ND		CA502-SB10-030 TPH-GRO, BTEX Collected from the bottom of the sample interval		T= 1442 R=2.5'/2.5'
	27						
	28		FS=ND HS=ND				T= 1450 R=2.5'/2.5'
	29						
	30	Bottom of Boring @ 30 ft bgs					END TIME = 1450

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB10

HTRW DRILLING LOG

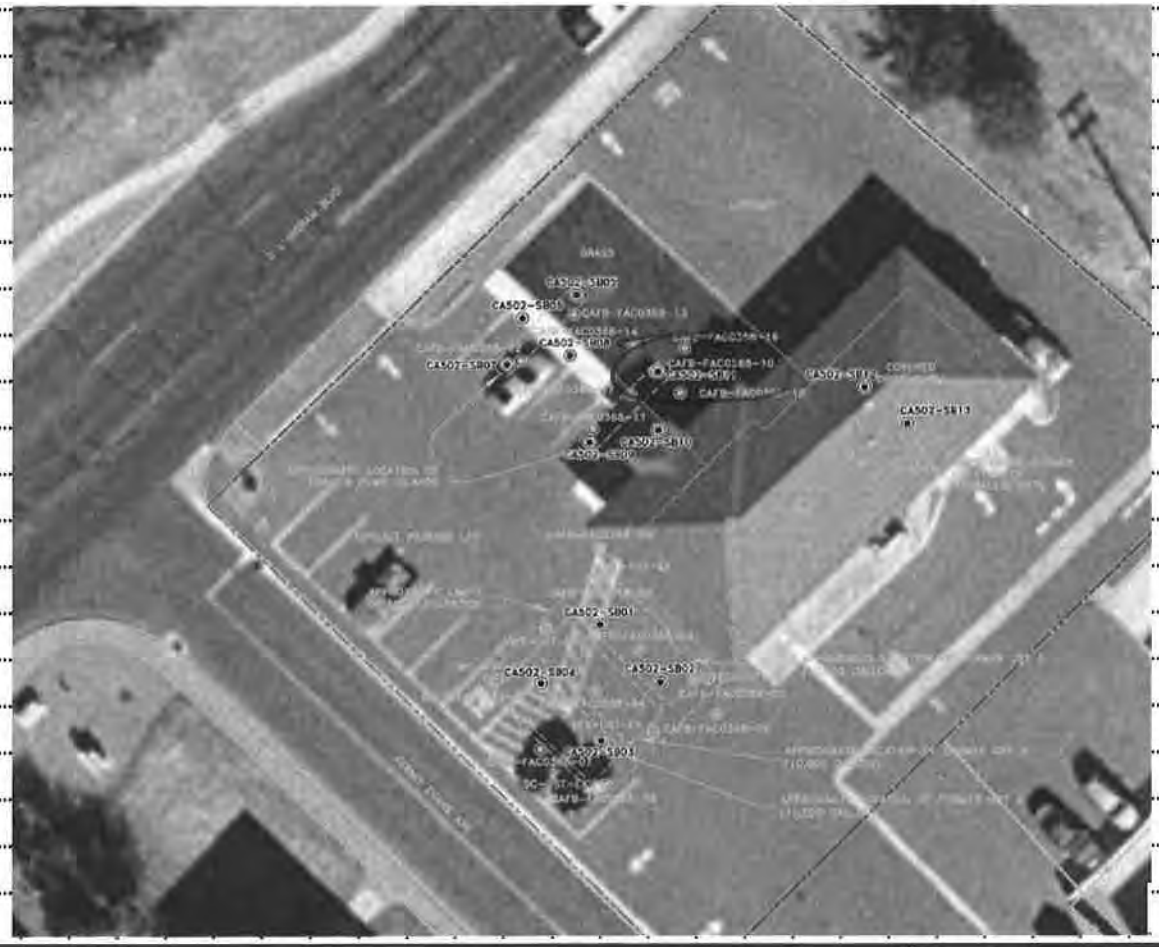
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA502-SB11
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 5 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA502-SB11, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler with a 1 5/8" diameter liner	8. HOLE LOCATION: 1237716.992 N, 846536.552 E	
	9. SURFACE ELEVATION: 4305.3 ft above MSL	
	10. DATE STARTED: 2-1-13 @ 1040	11. DATE COMPLETED: 2-1-13 @ 1200
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 40 ~~28~~ feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
~~0~~ 0	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
~~0~~ 10	BTEX + Naphthalene	Lead	Site-Related SVOCs	TPH-GRO/ORO/DRO		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer L. Miller

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA502-SB11

HTRW DRILLING LOG

HOLE NO. CA502-SB11

PROJECT: e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 2 OF 5 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	Sandy SILT (ML) and GRAVEL (GP) - Soft, moist, brown, low plasticity, fine grain sand and fine angular gravel	BKG=ND		↑		
	1				CA502-SB11-005	PP=0.5	T=1040 *R=3.2'/5.0'
			FS=ND HS=ND		TPH-GRO, BTEX Collected from the bottom of the sample interval		
	2						*Low Recovery due to the compression of soft material
		Native @ 2.8 ft bgs					
	3	SILT (ML) - Soft, moist, pale tan with light brown mottling, low plasticity			↓	PP=0.5	
						NO Recovery	
	4						
	5				↑		
	6				CA502-SB11-010	PP=0.5	T=1052 R=*3.5'/5.0'
			FS=ND HS=ND		TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=0.5	*Low Recovery due to the compression of soft materials
	7						
	8	Becomes medium stiff, some fine caliche nodules			↓	PP=1.5	
						NO Recovery	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB11

HTRW DRILLING LOG

HOLE NO. CA502-SB11

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 3 OF 5 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same As Above (SILT) ML - ~~medium~~ Stiff moist, pale tan with reddish brown sandy SILT mottling, slight plasticity				PP=2.0	
	11						T=1110 R=5.0'/5.0'
	12		FS=ND HS=ND		CA502-SB11-015 TPH-GRO, BTEX collected @ the bottom of the sample interval	PP=2.0	
	13						
	14					PP=2.0	
	15						
	16	Becomes Stiff, trace fine caliche nodules	FS=ND HS=ND		CA502-SB11-020 TPH-GRO, BTEX collected from the bottom of the sample interval	PP=3.0	T=1120 R=2.5'/2.5'
	17						
	18		FS=ND HS=ND			PP=3.0	T=1125 R=2.5'/2.5'
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB11

HTRW DRILLING LOG

HOLE NO. CA502-SB11

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [signature]

SHEET 4 OF 5 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h.
	21	Same As Above SILT (ML) - Stiff, dry, pale tannish white with brownish red silty sand staining, slight plasticity, calcareous	FS=ND HS=ND		CA502-SB11-025 and Duplicate CA502-SB511-025 @ false time 0730	PP=3.0	T=1131 R=2.5'/2.5'
	22						
	23		FS=ND HS=ND		TPH-GRO/BTEX collected from the bottom of the sample interval	PP=3.0	T=1140 R=2.5'/2.5'
	24	increased sand content					
	25	laminated Caliche			*CA502-SB11-028 and duplicate *CA502-SB511-028 @ false time 0800		T=1153 R=2.5'/2.5'
	26	SAND (SP) - loose, dry, reddish-brown, fine grain, trace fine Caliche nodules	FS=ND HS=ND				
	27						
	28		FS=ND HS=ND				T=1200 R=0.5'/0.5'
	29	Refusal @ 28.0 ft bgs Location offset apx 5ft ~~NE~~ SW and drilled to 40ft bgs on 2-3-13					*BTEX, TPH
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB11

HTRW DRILLING LOG

HOLE NO. CA502-SB11

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 5 OF 5 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	30	SAND (SP) - Dense, moist, reddish-Orange, fine grain, Some Caliche nodules (fine)	FS=ND HS=ND		CA502-SB11-035		T=1616 R=2.5'/2.5'
	31						
	32						
	33		FS=ND HS=ND		TPH-GRO, BTEX Collected from the bottom of the sample interval		T=1624 R=2.5'/2.5'
	34						
	35	Becomes light brown to tan, Clean (No caliche)	FS=ND HS=ND		CA502-SB11-040		T=1630 R=2.5'/2.5'
	36						
	37						
	38		FS=ND HS=ND		TPH-GRO, BTEX Collected from the bottom of the sample interval		T=1636 R=2.5'/2.5'
	39						
	40	Bottom of Boring @ 40 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB11

HTRW DRILLING LOG

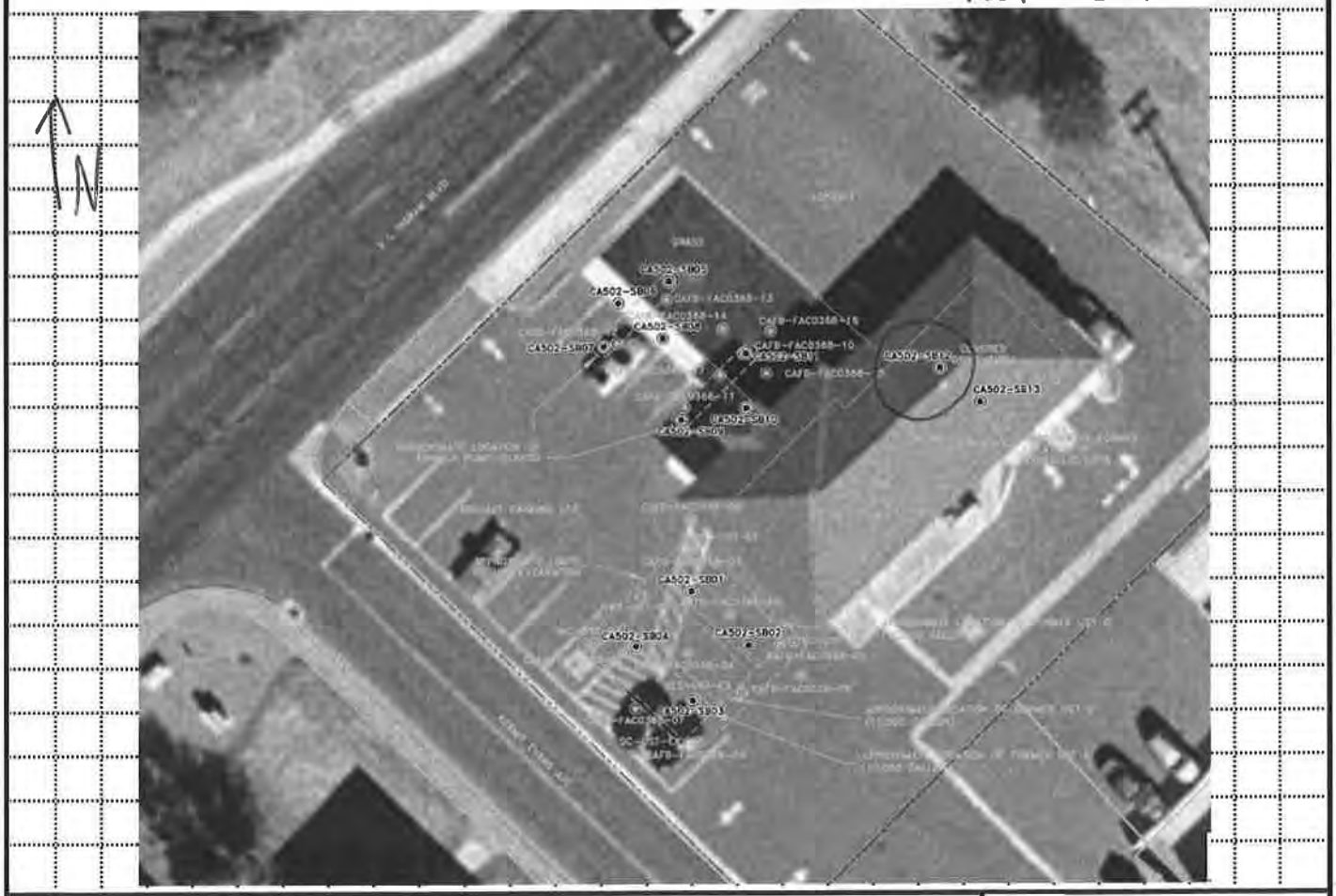
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA502-SB12	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA502-SB12, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 1 1/4" 48-foot long Macro Core Sampler within a 1 5/8" diameter sampler (Switched to a 4 ft sampler due to lack of clearance)	8. HOLE LOCATION: 1237713.652N 846579.557E	
	9. SURFACE ELEVATION: 4305.2 ft above MSL	
	10. DATE STARTED: 1-31-13 @ 0815	11. DATE COMPLETED: 1-31-13 @ 0846
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 10 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	BTEX + Napthalene	Lead	Site Specific SVOCs	TPH-GRO/ORO/DRO		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer [illegible]

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA502-SB12

HTRW DRILLING LOG

HOLE NO. CA502-SB12

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [signature]

SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect			PP=Pocket Pen	START TIME = 0825
		GRAVEL with SAND (GP-SP) fine, angular gravel with fine grain sand.					Time (T) Recovery (R)
	1	Sandy SILT (ML) - Soft, moist, dark brown, low plasticity to medium plasticity fine sand, trace fine, angular gravel (FILL)	medium plasticity		CA502-SB12-005 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=1.0	T= 0836 R= 4'/5' Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, and Lead
	2						
	3						
	4					NO Recovery	
	5	Native Surface @ 5.5ft bgs					T= 0846 R= 4.5'/5.0'
	6	SILT (ML) - Medium Stiff, moist, pale tan with white caliche mottling, slight plasticity, some fine sand and caliche nodules fine to coarse			CA502-SB12-010 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=2.0	
	7						
	8						
	9	Becomes Stiff				PP=4.0	END TIME = 0846
	10	Refusal @ 10.5 ft bgs				NO Refusal	

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB12

HTRW DRILLING LOG

DISTRICT: AFCEC-FA890308-D-8783-TO-0169		HOLE NUMBER: CA502-SB13
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1237705.838N 846588.537E	
	9. SURFACE ELEVATION: 4305.2 ft above msl	
	10. DATE STARTED: 2-1-13	11. DATE COMPLETED: 2-1-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 12'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

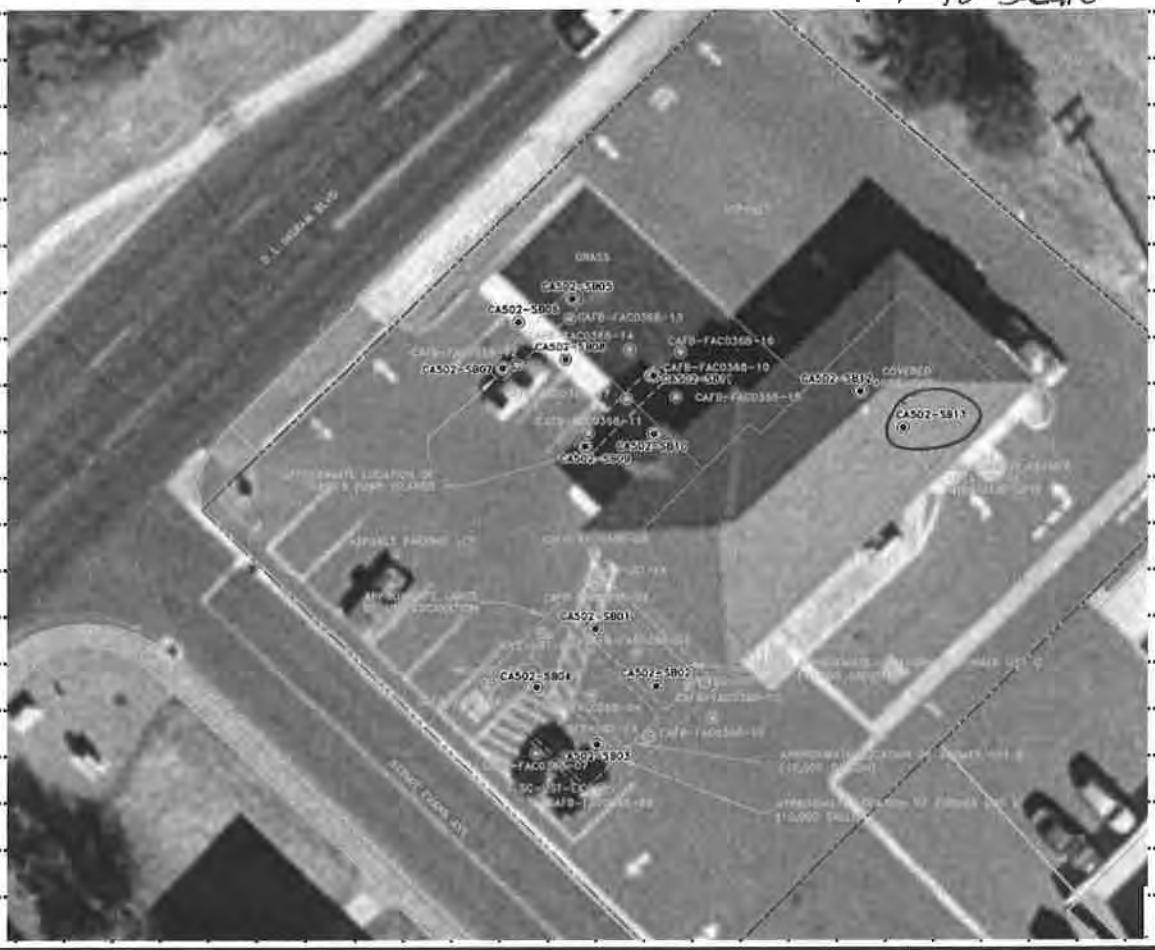
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	X	X (RCRA)	TPH GRO, DRO	SVOCs	PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Michael Clay

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA502-SB13

HTRW DRILLING LOG

HOLE NO. CA502-SB13

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA502-SB13-004	PP=Pocket Pen	START TIME = 0750
	1	Gravelly SAND (SP) - Loose, dry, light tan, poorly sorted	BKG=ND HS=ND				Time (T) = 0810 Recovery (R) = 3.6/5.0 Fill
	2	SILT (ML) - Stiff, moist, brown, low plastic, with trace clay + sand				PP = 2.0	Soil samples collected analyzed for ~~BTEX +~~ VOCs ~~organics, Site Related~~ SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, ~~and Lead~~ RCRA metals, and PCBs.
	3						
	4				NR		
	5		HS = ND		CA502-SB13-009		T = 0825 R = 4.3/5.0
	6	Silty SAND (SM) - Loose, moist, tan, fine grained, with calcareous nodules + trace clay					
	7	with decreasing nodules					
	8	Becomes light brown, with increasing sand					
	9						
	10				NR		

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA502-SB13

HTRW DRILLING LOG

HOLE NO. CA502-SB13

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Clayey SILT (ML) - Very stiff, moist, tan, low plastic	HS = ND		CA502-SB13-012	PP=2.5	T=0840 R=2.0/2.0 Fill Refusal @ 12' bgs when hit caliche
	11						
		Silty SAND (SM) - Loose, moist, tan, medium grained					
	12	Bottom of Boring - 12' bgs					
	13						
	14						
	15						
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA502 - SB13

HTRW DRILLING LOG

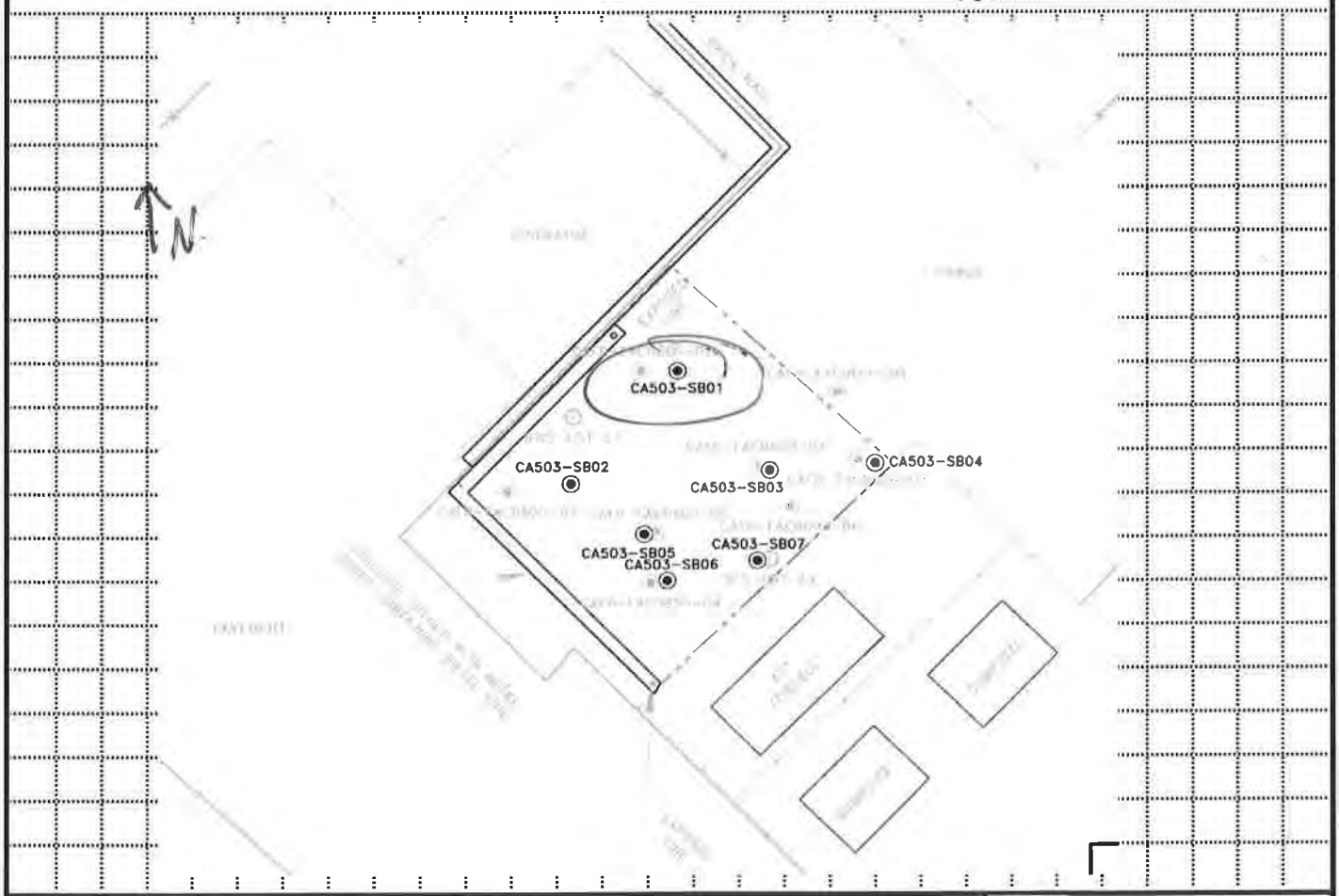
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA503-SB01	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA503-SB01, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jesse Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with 1 5/8" diameter sample liner	8. HOLE LOCATION: 1235819.371 N 845220.667 E	
	9. SURFACE ELEVATION: 4310.3 ft above msl	
	10. DATE STARTED: 1-29-13 @1235	11. DATE COMPLETED: 1-29-13 @ 1340
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 25 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	BTEX + Naphthalene	—	Site-Related SVOCs	TPH-ORO/DRO	—	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer L Allen

LOCATION SKETCH/COMMENTS SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA503-SB01

HTRW DRILLING LOG

HOLE NO. CA503-SB01

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND (SM)- Medium dense, moist, reddish brown, fine grain (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1235 Time (T) Recovery (R)
	1		FS=ND HS=ND		CA503-SB01-005		T= 1250 R= 3.0/5.0'
	2				BTEX collected from the bottom of the sample interval		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3						Recovery due to compressive soil, not loss or slough
	4						
	5						T= 1304 R= 5.0'/5.0'
	6	Concrete pieces 6.1-6.4 ft bgs Native surface @ 6.4 ft bgs					
	7	SILT (ML) - Medium Stiff, moist, orangish-brown with white caliche mottling, slight plasticity, trace very fine sand.	FS=ND HS=ND		CA503-SB01-010 BTEX collected from the bottom of the sample interval	PP=2.0	
	8					PP=2.0	
	9						
	10	Becomes calcareous, lightens to pale orangish-white					

HTRW DRILLING LOG

HOLE NO. CA503-SB01

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: [signature]

SHEET 3 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	SILT (ML) - Medium stiff, dry, pale orangish-white, slight plasticity, trace very fine sand				PP=1.5	T=1315 R=4.7'/5.0'
	11				CA503-SB01-015		
	12	orangish-brown, moist, low plasticity	FS=ND HS=ND		BTEX collected from the bottom of the sample interval	PP=2.0	
	13						
	14	Some laminated caliche					
					NO Recovery		
	15						
	16	Caliche becomes trace, Silt darkens to orangish-brown with light tan mottling, has a musty-moldy odor			CA503-SB01-020	PP=2.0	T=1331 R=4.5'/5.0'
	17		FS=ND HS=ND		BTEX Collected from the bottom of the sample interval		
	18						
	19						
					NO Recovery		
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB01

HTRW DRILLING LOG

HOLE NO. CA503-SB01

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer L Allen

SHEET 4 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	SAME AS ABOVE SILT (ML) - Stiff, moist, orangish-brown with light tan mottling, low plasticity, has a musty-moldy odor					
	21				CA503-SB01-024	PP=2.5	T=1340 R=4.0'/4.0'
			FS=ND HS=ND		BTEX collected 22.7-23.2 ft bgs	PP=2.0	
	22						
	23	Becomes Calcareous @ 23.2 ft bgs, with laminated caliche layers					
	24	Refusal @ 24.0 ft bgs					END TIME = 1340
	25						
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB01

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA503-SB02	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA503 - SB02, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6610 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" Sample liner	8. HOLE LOCATION: 1235810.863N, 845212.870E	
	9. SURFACE ELEVATION: 4310.1 ft above MSL	
	10. DATE STARTED: 1-29-13 @ 1355	11. DATE COMPLETED: 1-29-13 @ 1520
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 25 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

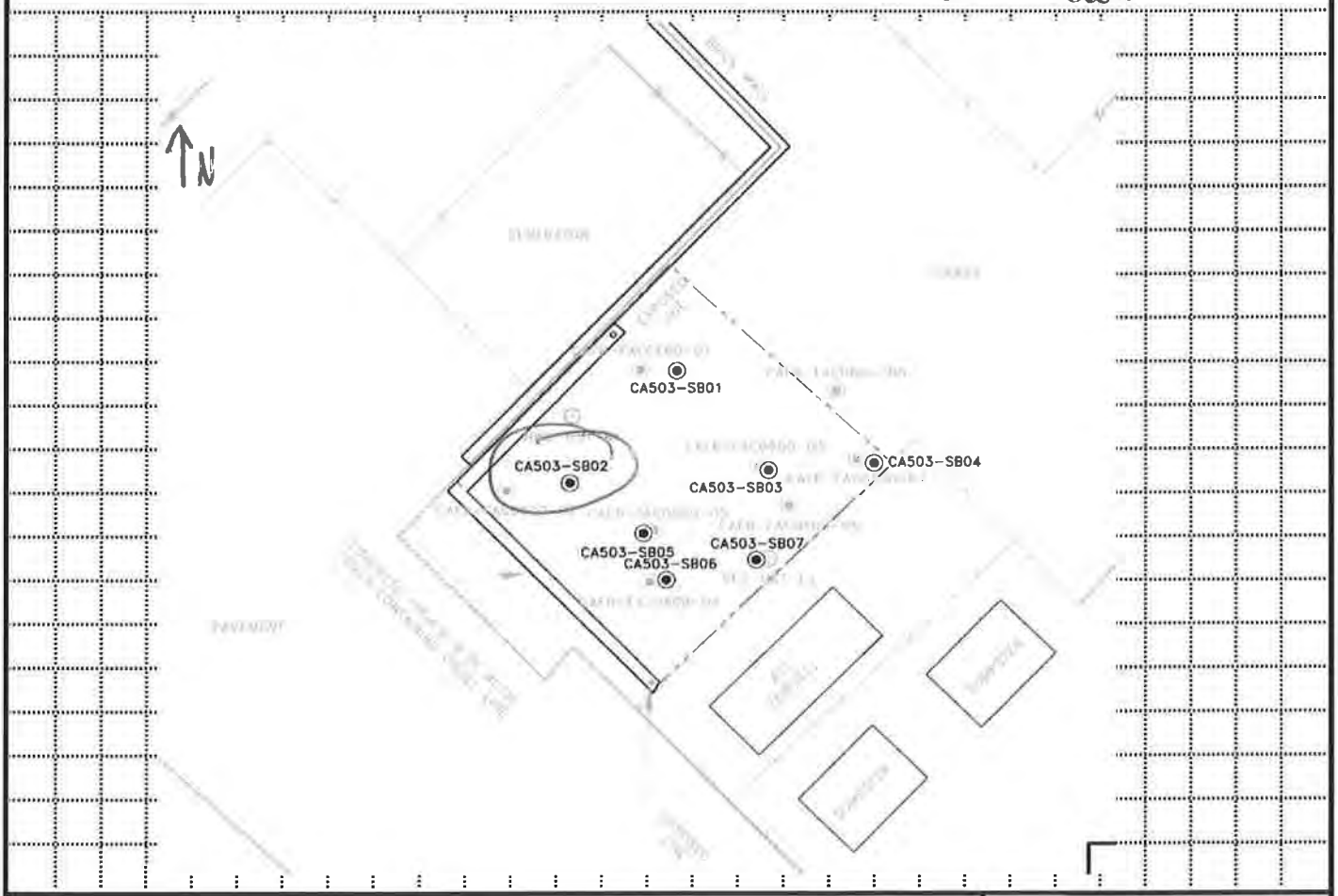
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 + MS/MSD	BTEX + Naphthalene	~~[illegible]~~	Site-Related SVOCs	TPH-ORO/DRO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA503-SB02

HTRW DRILLING LOG

HOLE NO. CA503-SB02

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND (SM) - Dense, moist, brown, fine grain (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1355 Time (T) Recovery (R) T= 1405 R=5.0'/5.0'
	1						
	2	Concrete Pieces and Gravel 2.0-2.5 ft bgs	FS=ND HS=ND		CA503-SB02-005 BTEX collected from the bottom of the sample interval		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3						
	4						
	5						T= 1415 R=5.0'/5.0'
	6	Native Surface @ 6.0 ft bgs SILT (ML) - Stiff, moist, reddish-brown with light tan mottling, slight plasticity, trace fine caliche nodules	FS=ND HS=ND		CA503-SB02-010 BTEX collected from the bottom of the sample liner	PP=3.0	
	7						
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB02

HTRW DRILLING LOG

HOLE NO. CA503-SB02

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Miller

SHEET 3 OF SHEETS 4

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	SAME AS ABOVE SILT (ML) - Stiff, moist, reddish-brown with light tan mottling, slight plasticity, trace fine caliche nodules				PP=3.5	
	11				CA503-SB02-015		T=1430 R=4.5
	12		FS=ND HS=ND		BTEX Collected @ the bottom of the sample interval	PP=3.0	
	13	Transitions to pale orangish-white with increased caliche nodules					
	14					NO Recovery	
	15	Becomes a Sandy SILT (ML) - medium stiff, moist, pale orangish-brown, slight plasticity, fine sand				PP=1.5	
	16				CA503-SB02-020		T= 1448 R= 5.0'/5.0'
	17		FS=ND HS=ND		BTEX Collected @ the bottom of the sample interval	PP=1.5	
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB02

HTRW DRILLING LOG

HOLE NO. CA503-SB02

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer K Allen

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same as Above Sandy SILT (ML) - Medium Stiff, moist, pale orangish-brown, Slight plasticity, fine sand					
	21				CA503-SB02-025	PP=1.5	T= 1520 R=5.0'/5.0'
	22	Sharp color change to light tannish-white, Calcareous with increased fine to coarse caliche	FS=ND HS=ND		BTEX collected from the bottom of the sample liner, Extra volume for MS/MSD		
	23					PP=1.5	
	24						
	25	Bottom of Boring @ 25.0 ft BGS					END TIME = 1520
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB02

HTRW DRILLING LOG

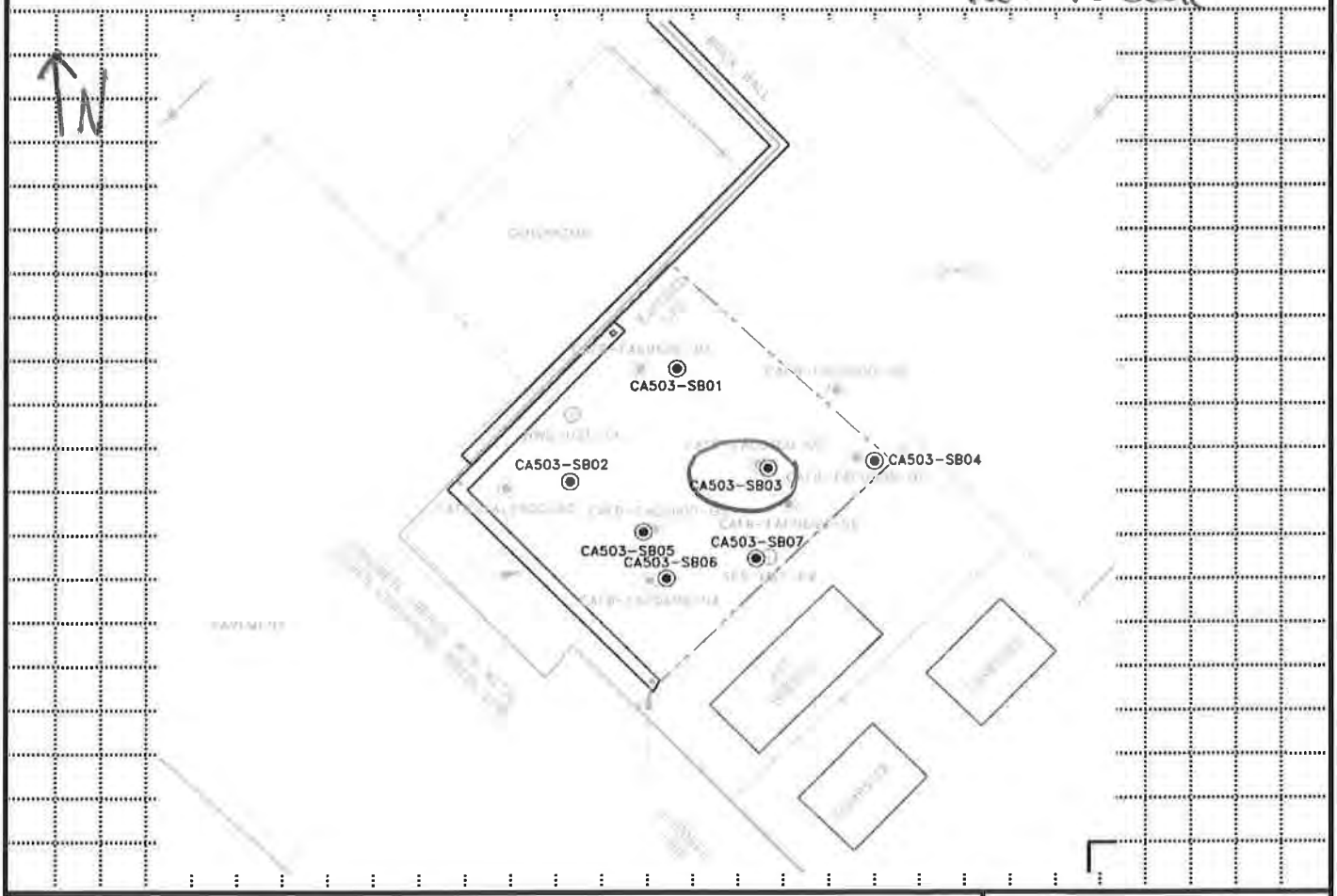
DISTRICT: AFCEC-FA8903-08-D-8763-TO-0169	HOLE NUMBER: CA503-SB03	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA503-SB03, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" diameter liner	8. HOLE LOCATION: 1235811.868 N 845227.384 E	
	9. SURFACE ELEVATION: 4309.6 ft above MSL	
	10. DATE STARTED: 1/29/13 @ 1000	11. DATE COMPLETED: 1/29/13 @ 1110
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 23 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
6	BTEX + Naphthalene	—	Site-Related SVOCs	TPH-ORO/DRO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA503-SB03

HTRW DRILLING LOG

HOLE NO. CA503-SB03

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [signature]

SHEET 2 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	Sandy SILT (ML) - Stiff, moist, brown, low plasticity, fine sand, some fine gravel (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND FS=ND			PP=Pocket Pen PP=3.0	START TIME = 1000 Time (T) Recovery (R) T=1010 R=5.0'/5.0'
	1						
	2		HS=ND		CA503-SB03-005 BTEX collected from the bottom of the sample interval	PP=2.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3						
	4					PP=2.5	
	5						
	6						T=1019 R=5.0'/5.0'
	7	Some Coarse gravel, angular, increased fine gravel 7.0-8.3 ft bgs	FS=ND HS=ND		CA503-SB03-010 BTEX collected from the bottom of the sample interval	PP=2.0	
	8						
	9	Becomes Native @ 9.0 ft bgs, color lightens to pale orangish-brown					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB03

HTRW DRILLING LOG

HOLE NO. CA503-SB03

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J. L. Allen

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	SILT (ML) - Medium Stiff, moist, orangish-brown, low plasticity, some fine sand, trace caliche mottling			CA503-SB03-015, and Duplicate CA503-SB503-015 @ false time 0730 BTEX Collected @ the bottom of the Sample interval	PP=2.0	
	11		FS=ND HS=ND				T=1030 R=4.1'/5.0'
	12					PP=2.0	
	13						
	14					NO Recovery	
	15	Becomes Calcareous, pale orangish-white			CA503-SB03-020 BTEX Collected @ the bottom of the Sample interval	PP=2.0	
	16						T=1048 R=3.0'/3.0'
	17		FS=ND HS=ND				
	18	lightens to very light tannish-white, Sand becomes very fine					T=1053 R=2.0'/2.0'
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA503-SB03

HTRW DRILLING LOG

HOLE NO. CA503-SB03

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR

SHEET 4 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same As Above SILT(ML)- Medium Stiff, dry, light tannish-white, Slight plasticity, some very fine sand	FS=ND HS=ND		CA503-SB03-023 BTEX Collected from the bottom of the sample interval	PP=1.5	T=1110 R=3.0'/3.0'
	21						
	22						
	23	Refusal @ 23.0 ft BGS					END TIME =1110
	24						
	25						
	26						
	27						
	28						
	29						
	30						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA 503 - SB03

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA503-SB04
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA503-SB04, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jesse Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler with a 1 5/8" Diameter Sample liner		8. HOLE LOCATION: 1235812.390N 845235.075E
		9. SURFACE ELEVATION: 4309.4 ft above MSL
		10. DATE STARTED: 1-29-13 @ 0814 / 11. DATE COMPLETED: 1-29-13 @ 0933
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater Not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 25 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

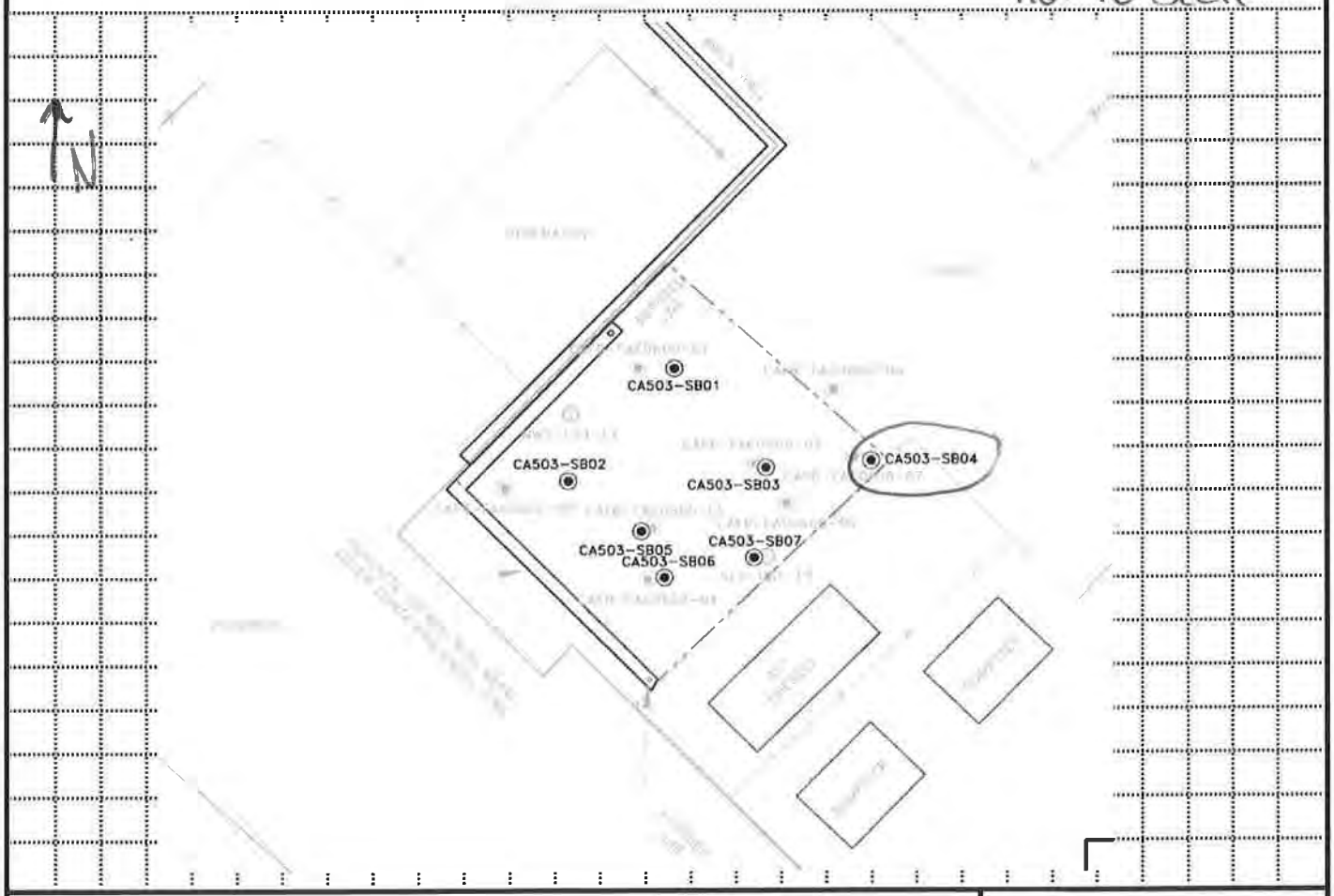
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 + MS/MSD	BTEX + Naphthalene	—	Site-Related SVOCs	TPH-ORO / DRO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer [illegible]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA503-SB04

HTRW DRILLING LOG

HOLE NO. CA503-SB04

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	Sandy SILT (ML) - Stiff, moist, reddish brown, low plasticity, fine sand, (FILL MATERIAL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 0814 Time (T) Recovery (R)
	1	Some fine gravel				PP=3.5	T= 0822 R= 5.0/5.0
	2		FS=ND HS=ND		CA503-SB04-005 BTEX collected @ the bottom of the sample interval	PP=3.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3						
	4	Sharp change to: SILT (ML) - Stiff, dry, pale orangish-white, slight plasticity, some fine caliche nodules, calcareous (FILL)				PP=2.5	
	5						
	6	Darkens to orangish-tan, becomes moist, some white caliche mottling				PP=3.0	T= 0834 R=5.0'/5.0'
	7		FS=ND HS=ND		CA503-SB04-010 BTEX Collected from 8.5-9.3 ft bgs		
	8					PP=2.5	
		Some sand 8.5 - 9.3 ft bgs					
	9	Native @ 9.3 ft bgs					
		CALICHE - hard, dry, pale orangish-white, broken/crushed					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB04

HTRW DRILLING LOG

HOLE NO. CA503-SB04

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer D. Allen

SHEET 3 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same as Above CALICHE-hard, dry, pale orangish white, broken					
		SILT (ML)- Medium Stiff, moist, orangish-tan, low plasticity, some fine sand				PP=1.0	T=0855 R=5.0'/5.0'
	11		FS=ND HS=ND		CA503-SB04-015		
	12				BTEX Collected from the bottom of the sample interval 14.5-15.0 ft bgs	PP=1.0	
	13	Becomes Sandy SILT (ML) - medium Stiff, moist, orangish-tan, Slight plasticity, fine sand					
	14	CALICHE LAYER					
		Sandy SILT (ML) - Medium Stiff, dry, pale orangish-white, slight plasticity, fine to coarse caliche nodules, calcareous				PP=1.0	
	15						
	16	-Orangish-Brown					T=0905 R=5.0'/5.0'
	17		FS=ND HS=ND		CA503-SB04-016 BTEX Collected from the bottom of the sample interval		
	18	Becomes mottled with white caliche					
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB04

HTRW DRILLING LOG

HOLE NO. CA503-SB04

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer L Allen

SHEET 4 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same As Above					
		Sandy SILT (ML) - Medium Stiff, dry, pale orangish white, slight plasticity, fine to coarse caliche nodules					
	21				CA503-SB04-025		T= 0933 R= 5.0/5.0
			FS=ND HS=ND		BTEX Collected @ the bottom of the sample interval, Extra Volume collected for MS/MSD		
	22						
	23						
	24						
	25	Bottom of Boring @ 25.0 ft bgs					END TIME= 0933
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB04

HTRW DRILLING LOG

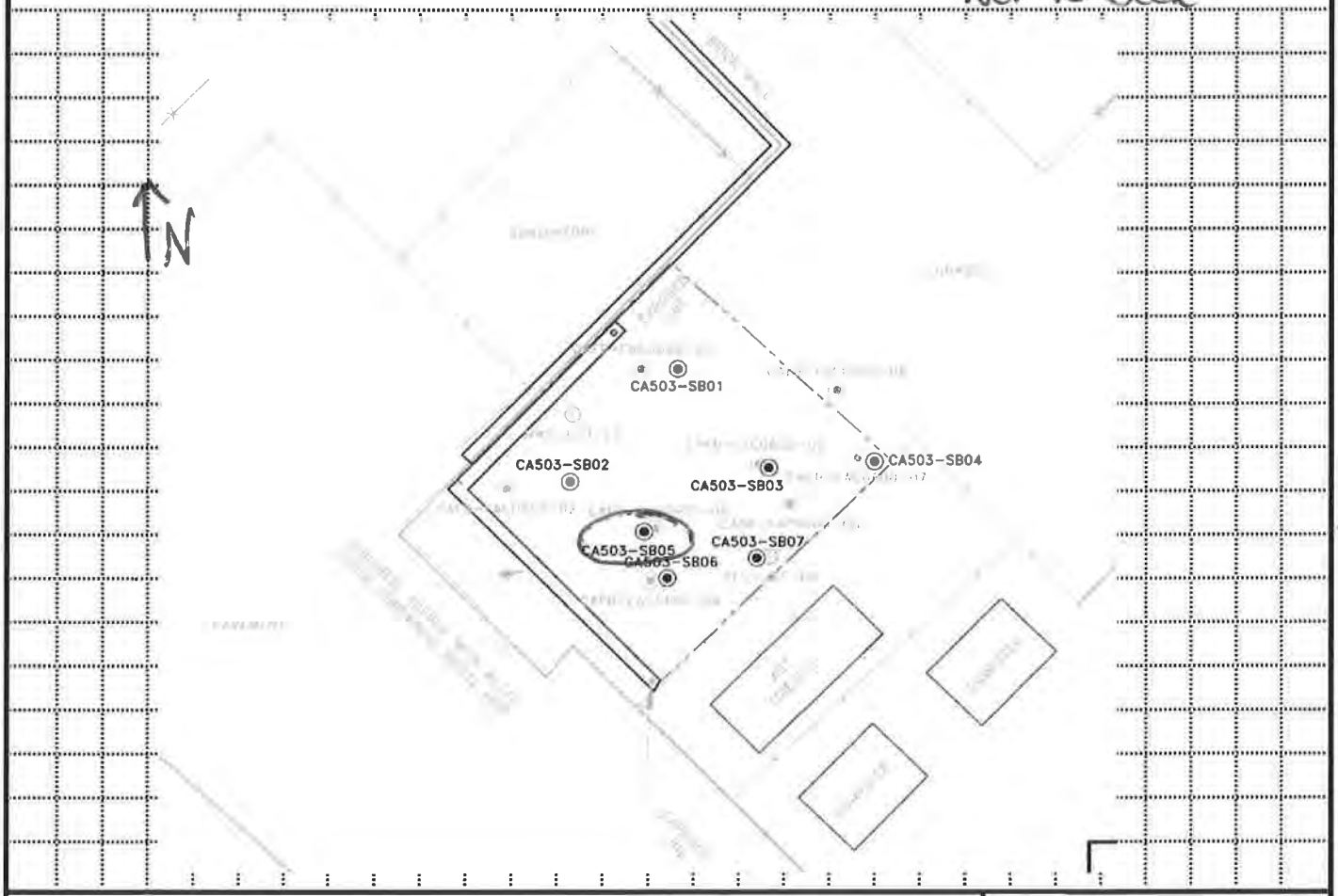
DISTRICT: AFCEC-FA8903-08-D-8383-TO-0169	HOLE NUMBER: CA503-SB05	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA503 - SB05, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jesse Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler with 1 5/8" diameter Sample liner	8. HOLE LOCATION: 1235807.27 N 845219.06 E	
	9. SURFACE ELEVATION: 4309.4 ft above MSL	
	10. DATE STARTED: 1/30/13 @ 0757	11. DATE COMPLETED: 1/30/13 @ 0920
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 25 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
7	BTEX + Naphthalene	—	Site-Related SVOCs	TPH-DRO/ORO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	Jennifer Allen

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA503-SB05

HTRW DRILLING LOG

HOLE NO: CA503-SB05

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [signature]

SHEET 2 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Sandy SILT (ML) - Medium Stiff, moist, brown, low plasticity, fine sand, trace fine gravel and Concrete debris (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen PP=1.5	START TIME = 0757 Time (T) Recovery (R) T=0809 R=5.0'/5.0'
	1						
	2		FS=ND HS=ND		CA503-SB05-005 BTEX collected from the bottom of sample interval		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3					PP=1.5	
	4						
	5						
	6	- Coarse gravel and concrete pieces	FS=ND HS=ND		CA503-SB05-010 and duplicate CA503-~~SB05~~ SB505-010 @ false time 0700 BTEX collected from the bottom of the sample interval	PP=1.5	0935 T=~~0823~~ R=4.2'/5.0'
	7						
	8	Native Surface @ 8.5 ft bgs Lightens to reddish-tan, becomes calcareous					
	9	~~Light~~				No Recovery	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB05

HTRW DRILLING LOG

HOLE NO. CA503-SB05

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer [illegible]

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Clayey SILT (ML) - medium stiff, moist, pale orangish-tan with white caliche mottling, low plasticity, trace fine caliche nodules			CA503-SB05-015, and duplicate	PP=2.0	
	11						
	12		FS=ND HS=ND		CA503-SB505-015 BTEX collected from the bottom of the sample interval		T= 0830 R= 4.1'/5.0'
	13						
	14					NO Recovery	
	15						
	16	Some very fine sand becomes SILT (ML) (no clay)	FS=ND HS=ND		CA503-SB05-020 BTEX collected from the bottom of the sample interval	PP=1.0	T=0850 R=4.3'/5.0'
	17						
	18						
	19						
	20					NO Recovery	

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA503-SB05

HTRW DRILLING LOG

HOLE NO. CA503-SB05

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same As Above SILT (ML)- medium stiff, moist, pale orangish-tan with trace white caliche mottling, low plasticity				PP=1.0	T= 0912 R= 3.0'/3.0'
	21	Transitions to a calcareous SILT	FS=ND		CA503-SB05-025		
		Lightens to pale orangish-white, crushed caliche with some fine sand			BTEX collected in the SILT from 20-21 ft bgs		
	22						
	23		FS=ND				T= 0920 R= 1.6'/1.6'
	24						
		Refusal @ 24.6 ft bgs					END TIME = 0920
	25						
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB05

HTRW DRILLING LOG

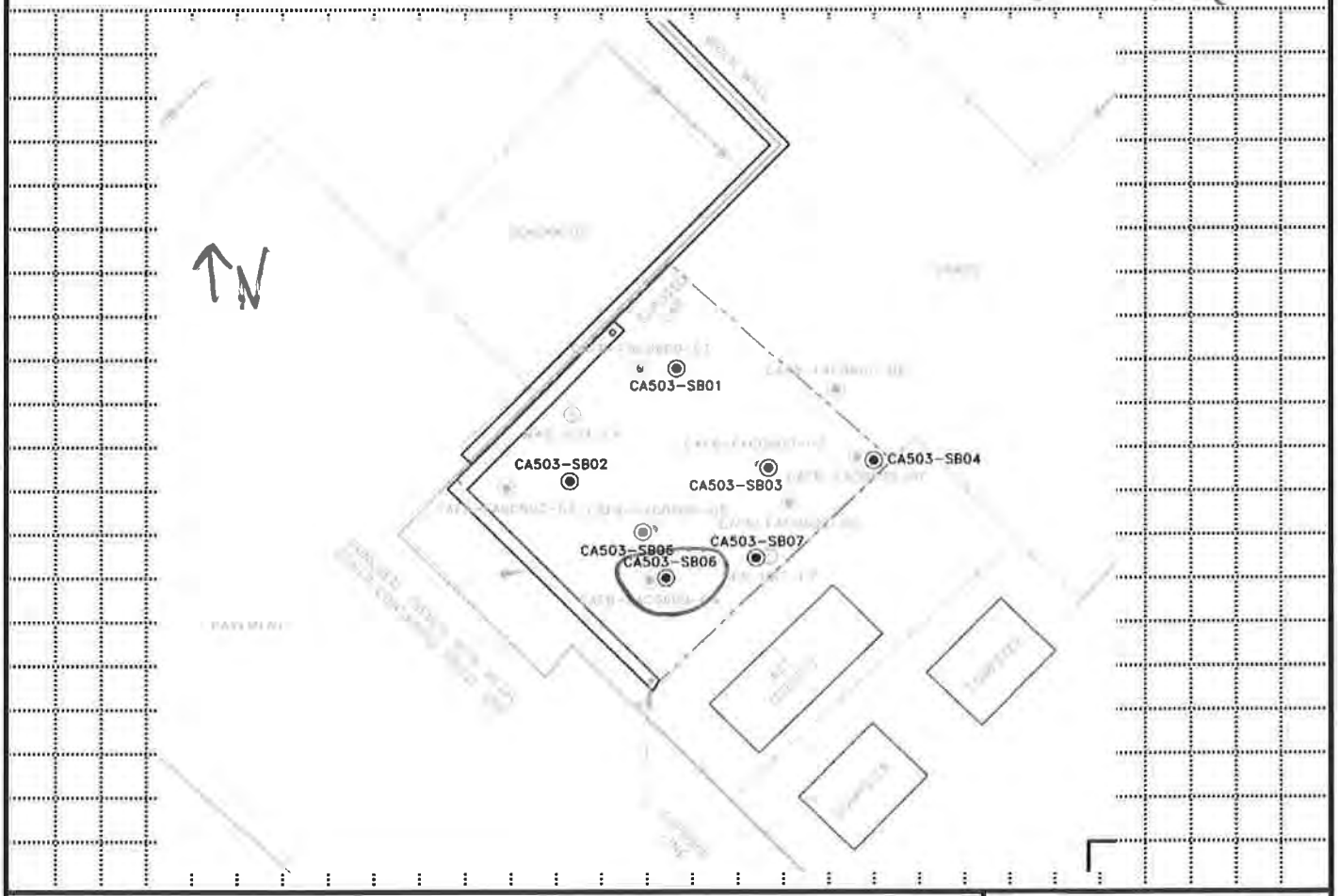
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA503-SB06
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA503-SB06, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jesse Kelvig		6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" diameter Sample liner		8. HOLE LOCATION: 1235803.540 N 845219.918 E
		9. SURFACE ELEVATION: 4308.9 ft above MSL
		10. DATE STARTED: 1/30/13 @ 1015
		11. DATE COMPLETED: 1/30/13 @ 1110
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 25.30 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	BTEX + Napthalene	—	Site-Related SVOCs	TPH-DRO/ORO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS — SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA503-SB06

HTRW DRILLING LOG

HOLE NO. CA503-SB06

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [signature]

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEOTECH. SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Sandy SILT (ML) - Medium stiff, moist, brown, low plasticity, fine sand with trace fine gravel and concrete / asphalt debris (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen PP=1.5	START TIME = 1000 Time (T) Recovery (R) T=1015 R=5.0'/5.0'
	1				CA503-SB06-005		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	2		FS=ND HS=ND		BTEX collected from the bottom of the sample interval		
	3	Increased fine sand, becomes reddish-brown				PP=1.5	
	4						
	5	Native @ 5.0 ft bgs becomes SILT (ML) - Medium stiff, moist, paleorange with white caliche mottling, slight plasticity, some fine caliche nodules				PP=2.0	
	6				CA503-SB06-010		T=1025 R=5.0'/5.0'
	7		FS=ND HS=ND		BTEX collected from the bottom of the sample interval		
	8						
	9	Some SAND, fine Becomes sandy SILT (ML)					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB06

HTRW DRILLING LOG

HOLE NO. CA503-SB06

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Sandy SILT (ML) - Medium Stiff, moist, pale orangish-tan with white caliche mottling, Slight plasticity, fine sand				PP=2.0	
	11				CA503-SB06-015		T=1030 R=5.0'/5.0'
	12		FS=ND HS=ND		BTEX Collected @ the bottom of the Sample interval		
	13	Becomes Stiff				PP=2.5	
		Increasing sand					
	14						
	15	Silty SAND (SM) - loose to medium dense, pale orangish-tan, moist, very fine to fine grain (clean - no caliche mottling or nodules)					
	16				CA503-SB06-020		T=1050 R=5.0'/5.0'
	17		FS=ND HS=ND		BTEX Collected from the bottom of the Sample interval		
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB06

HTRW DRILLING LOG

HOLE NO. CA503-SB06

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same as Above Silty SAND (SM) - loose to medium dense, moist, pale orangish-tan, very fine to fine grain					
	21	SILT (ML) - Medium Stiff, moist, pale-orangish white, white caliche mottling with caliche nodules, slight plasticity, trace sand			CA503-SB06-025	PP=1.5	T=1110 R=4.5'/5.0'
	22		FS=ND HS=ND		BTEX collected from the bottom of the sample interval		
	23					PP=1.5	
	24					NO Recovery	
	25	Bottom of Boring @ 25.0 ft bgs					END TIME = 1110
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB06

HTRW DRILLING LOG

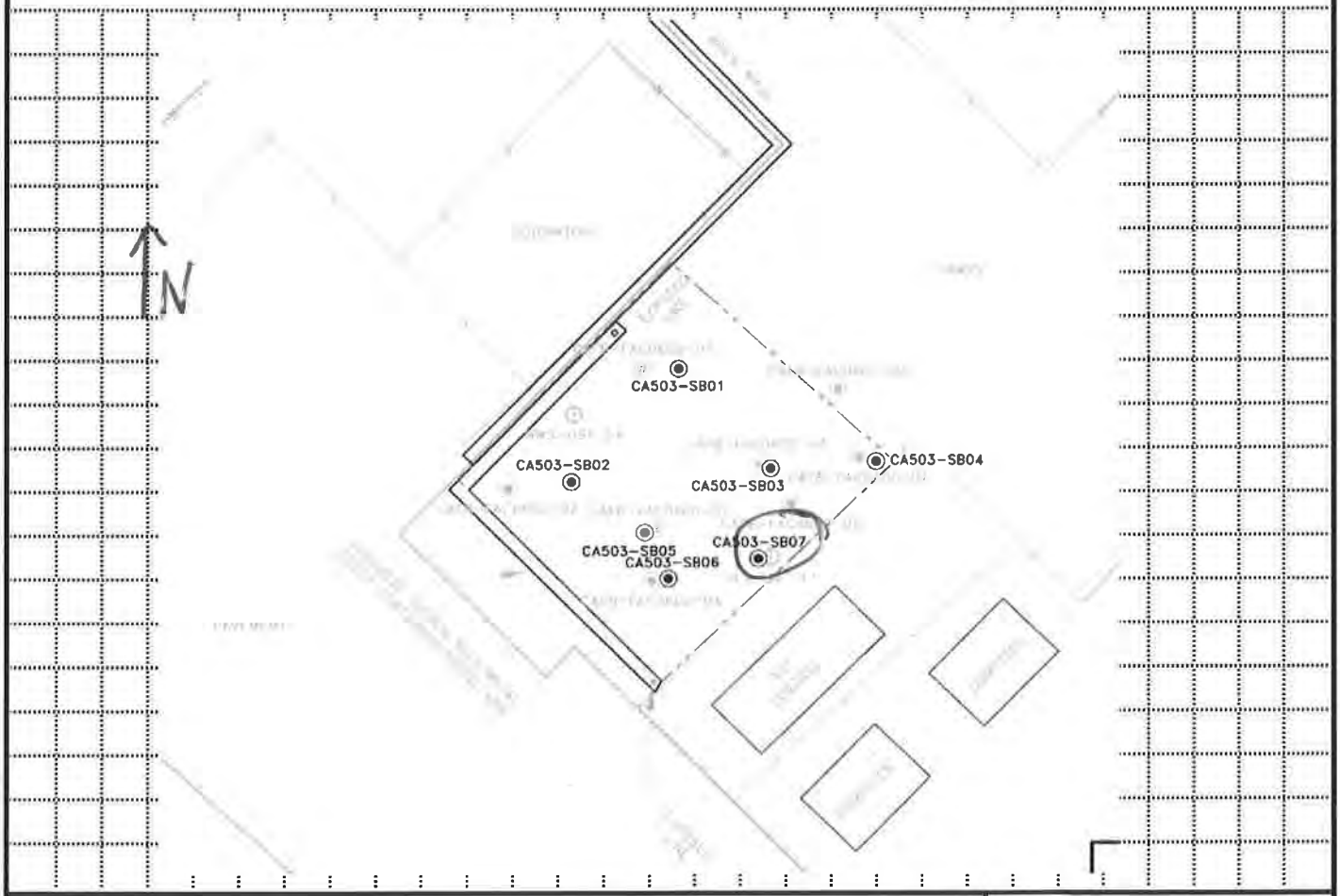
DISTRICT: 4FCEC-FA6903-08-D-8783-TO-0169		HOLE NUMBER: CA503-SB07
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA503-SB07, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with 1 5/8" diameter sample liner		8. HOLE LOCATION: 1235805.05 N, 845226.5 E
		9. SURFACE ELEVATION: 4308.9 ft above msl
		10. DATE STARTED: 1/30/13 @ 1110 / 11. DATE COMPLETED: 1/30/13 @ 1220
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 25 feet (ft) below ground surface		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	BTEX + naphthalene	—	Site Related SVOCs	TPH-DRO/ORO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA503-SB07

HTRW DRILLING LOG

HOLE NO. CA503-SB07

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Sandy SILT (ML) - Medium stiff, moist, brown, low plasticity, fine sand with some fine gravel and concrete debris (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1110 Time (T) Recovery (R) T= 1118 R= 5.0'/5.0' Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	1						
	2		FS=ND HS=ND		CA503-SB07-005 BTEX Collected from the bottom of the sample interval	PP=1.0	
	3						
	4					PP=1.5	
	5						
	6	Some coarse gravel and Concrete					T= 1126 R= 5.0'/5.0'
	7		FS=ND HS=ND		CA503-SB07-010 BTEX Collected from the bottom of the sample interval	PP=1.5	
	8	Native @ 8.0 ft bgs, becomes Calcareous					
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB07

HTRW DRILLING LOG

HOLE NO. CA503-SB07

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR:

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	SILT (ML) - Medium Stiff, dry, Pale orangish-white with white caliche mottling, Slight plasticity, fine to coarse caliche nodules, Calcareous				PP=1.5	
	11				CA503-SB07-015		T=1133 R=4.0'/5.0'
	12		FS=ND HS=ND		BTEX collected @ the bottom of the sample interval		
	13						
	14					NO Recovery	
	15	Becomes light tannish-white, Stiff, increased caliche				PP=3.0	
	16		FS=ND HS=ND		CA503-SB07-020		T=1150 R=2.5'/2.5'
	17				BTEX collected from the bottom of the sample interval		
	18		HS=ND FS=ND				T=1155 R=2.5'/2.5'
	19	Decreased caliche content, some sand, becomes pale orange with white caliche mottling, 18.5'-19.5'				PP=2.5	
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB07

HTRW DRILLING LOG

HOLE NO. CA503-SB07

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 4 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same As Above SILT (ML) - Stiff, dry, light tannish-white, high calcite content, fine to coarse nodules, some fine sand,	FS=ND HS=ND		CA503-SB07-025 BTEX collected from the bottom of the sample interval	PP=30	T=1217 R=2.5'/2.5'
	21						
	22						
	23		FS=ND HS=ND			PP=30	T=1220 R=2.5'/2.5'
	24						
	25	Bottom of Boring @ 25.0 ft bgs					END TIME = 1220
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA503-SB07

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA504-SB01
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services/Boart Longyear	SHEET 1 OF SHEETS 30
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, New Mexico	
5. NAME OF DRILLER: Jesse Kalvig (PES) Roger Rodriguez (BL)	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 6620 DT / Sonic Drill Rig	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5 ft long macrocore sampler; 1 5/8" dia. sample liner; 5 ft long 1 1/2" drill rods; Sonic Drill Rig	8. HOLE LOCATION: 1238830.303N 844711.606E	
	9. SURFACE ELEVATION: 4312.0 ft AMSL	
	10. DATE STARTED: 2-5-13	11. DATE COMPLETED: 7-11-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 276 ft bgs.	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

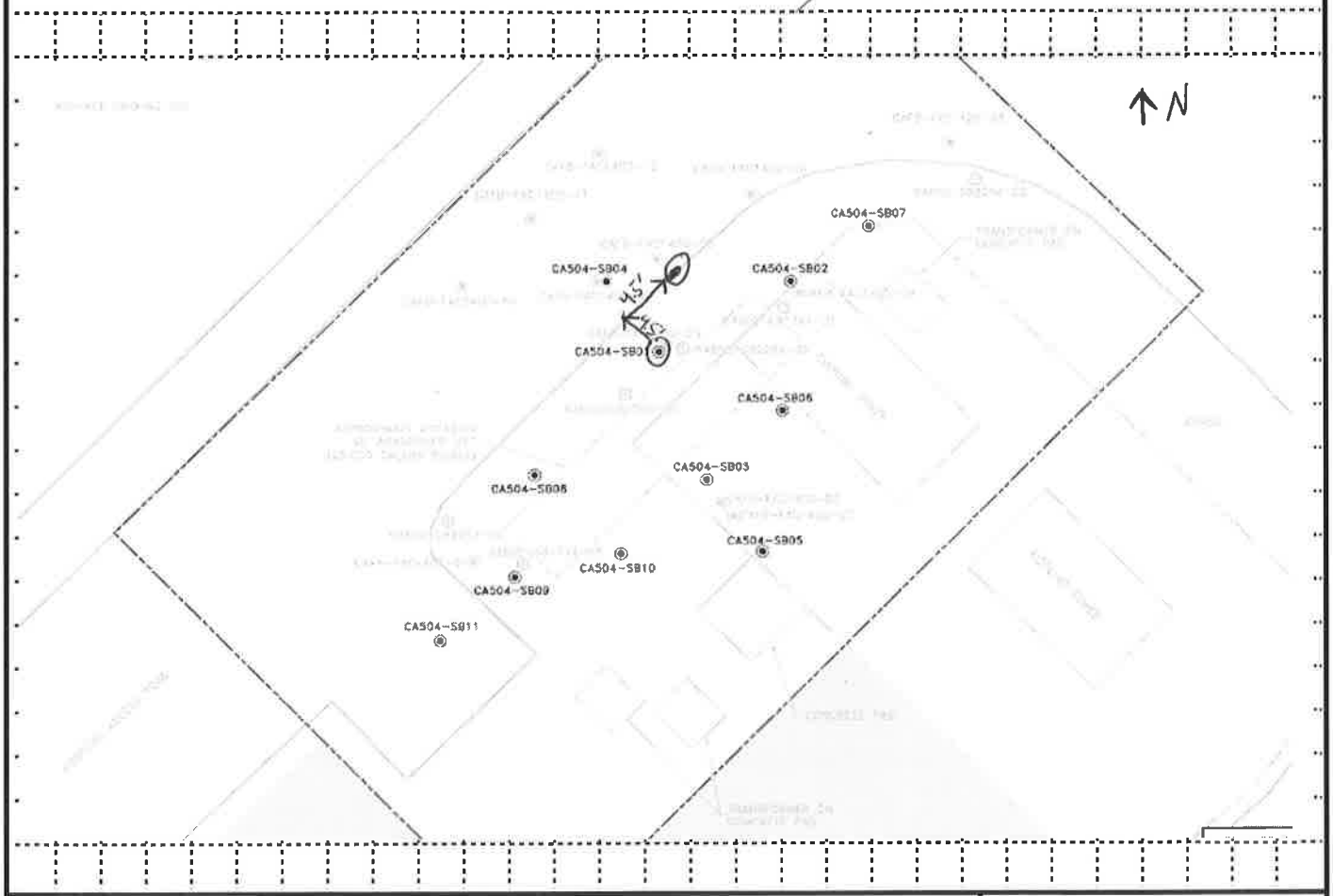
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
65	Btex + Naphthalene	—	Site Related Svocs	TPH-ORO, DRO	—	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets & Slurry	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer L Allen

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	Silty SAND (SM) - loose, dry, reddish-brown, fine grain (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND FS=ND			PP=Pocket Pen	START TIME = 09.25
	1	0-2 ft bgs Hand Augered			CA504-SB01-005		Time (T) Recovery (R) T=09.28 R=4.3'/5.0' Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	2	Pulverized Caliche 2.0'-3.0', white with some fine caliche nodules	HS=ND				
	3						NOTE: BTEX+ napthalene samples collected from the bottom of the sample intervals
	4					NO Recovery	
	5	Native Surface @ 5.0 ft bgs SILT (ML) - soft, dry, light brownish-white, No plasticity, Calcareous with high content of fine caliche nodules					
	6		FS=ND			PP=1.0	T=09.34 R=2.5'/2.5'
	7				CA504-SB01-010		HS=ND
	8	Becomes Medium Stiff	FS=ND			PP=1.5	T=0942 R=2.5'/2.5'
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT .e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer Doller

SHEET 3 OF 30 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	Same as Above					
		SILT (ML) - Medium Stiff, dry, light brownish-white, no Plasticity, Calcareous, high fine Caliche nodudule content				PP=1.5	
	11				CA504-SB01-015		T=0956 R=5.0'/5.0'
	12		FS=ND HS=ND				
		Some brownish-red sand, becomes Stiff				PP=2.5	
	13						
		Transitions to a Sandy SILT (ML) Sand is brownish-red and fine grain					
	14						
	15						
						PP=2.5	
	16						T=1007 R=5.0'/5.0'
			FS=ND HS=ND		CA504-SB01-020		
	17						
	18					PP=2.5	
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT: e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 4 OF 30 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same As Above Sandy SILT (ML) - Medium Stiff, dry, light brownish white with reddish-brown sand, slight plasticity, fine sand, moderate chemical odor-sweet	FS=27.5 ppm		CA504-SB01-023	PP=1.5	
	21		FS=57.1 ppm				T=1015 R=2.5'/2.5'
	22	Increasing reddish-brown sand content, soft	FS=85.6 ppm			PP=0.5	HS=167.6 ppm (5ft interval)
	23	Silty SAND (SM) - loose, dry, reddish brown with some white calcareous silt, fine grain, moderate sweet chemical odor	FS=118 ppm		CA504-SB01-025 and duplicate CA504-SB501-025 @ false time 0700		T=1029 R=2.5'/2.5'
	24		FS=121 ppm				
	25		FS=151 ppm				
		Some caliche mottling 25.3'-26.5'	FS=99.8 ppm				T=1050 R=2.5'/2.5'
	26		FS=84.2 ppm				
	27	SAND (SP) - loose, dry, pale orangish-tan, fine grain, moderate sweet chemical odor	FS=127.1 ppm		CA504-SB01-030		HS=186.7 ppm (5ft interval)
	28		FS=110.1 ppm				T=1100 R=2.5'/2.5'
	29		FS=124 ppm				
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR [illegible]

SHEET 5 OF 30 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
	30	Same As Above	FS=92.1 ppm				
		SAND(SP) - loose, dry, pale orangish-tan, fine grain, moderate sweet chemical odor, trace coarse caliche nodules 31'-32' bgs					T=1108 R=2.5'/2.5'
	31		FS=56.2 ppm		CA504-SB01-035		
	32						HS=295.4 ppm (5 ft interval)
	33		FS=169.7 ppm				T=1122 R=2.5'/2.5'
	34		FS=191.2 ppm				
	35	Trace fine caliche nodules 35.0'-36.5' bgs	FS=130.8 ppm				T=1130 R=2.5'/2.5'
	36				CA504-SB01 040		
	37		FS=191.2 ppm				HS=352.3 ppm (5 ft interval)
	38		FS=161.7 ppm				T=1153 R=2.5'/2.5'
	39		FS=185.1 ppm				
	40		FS=238.4 ppm				

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer L Allen

SHEET 6 OF 30 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
	40	Same As Above					
		SAND (SP) - loose, dry, pale orangish-tan, fine grain, moderate sweet chemical odor, trace fine caliche nodules					
	41		FS=1986 ppm				T=1250 R=2.5'/2.5'
					CA504-SB01-045 and duplicate		
	42		FS=169.2 ppm				HS=354.8 ppm (5 ft interval)
	43	Becomes very fine to fine grain	FS=208.2 ppm		CA504-SB501-045 @ false time 0730		T=1302 R=2.5'/2.5'
	44		FS=199.0 ppm				
			FS=207.1 ppm				
	45						
	46		FS=211.1 ppm		CA504-SB01-050		T=1331 R=2.5'/2.5'
	47		FS=324.2 ppm				HS=310.4 ppm (5 ft interval)
	48		FS=240.1 ppm				T=1359 R=2.5'/2.5'
	49		FS=320.0 ppm				
	50		FS=297.8 ppm				

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer L Allen

SHEET 7 OF 30 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
	50	SAND (SP) - Medium dense, dry, tan with white calcareous silt, fine to coarse caliche nodules, very fine grain sand, strong hydrocarbon odor	FS=235 ppm				T=1415 R=1.5'/1.5'
	51		FS=257 ppm				HS=332.4 ppm (5 ft interval)
	52	Changes to a clean sand (SP) @52.0 ft bgs (No silt or caliche) becomes tan, moist, fine grain with a strong hydrocarbon odor, loose			CA504-SB01-055		T=1441 R=3.5'/3.5'
	53		FS=251 ppm				
	54		FS=261 ppm				
	55						
	56		FS=179 ppm				T=1458 R=2.5'/2.5'
	57		FS=194 ppm		CA504-SB01-060		HS=363.3 ppm (5 ft interval)
	58	Coarse caliche nodules 58'-59' bgs	FS=191 ppm				T=1500 R=2.5'/2.5'
	59		FS=168 ppm				
	60		FS=337 ppm				

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT: e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 8 OF 30 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	60	Same As Above SAND(SP) loose, moist, tan, fine grain, Strong Hydrocarbon odor					T=1512 R=2.5'/2.5'
	61		FS=294 ppm		CA504-SB01-065		
	62		FS=304 ppm		and Duplicate		HS=246.0 ppm (5ft interval)
	63		FS=210 ppm		CA504-SB501-065 @ false time 0800		T=1538 R=2.5'/2.5
	64		FS=285 ppm				
	65		FS=303 ppm				
	66		FS=132 ppm		CA504-SB01-070		T=1545 R=2.5'/2.5'
	67		FS=132 ppm				HS=289.1 ppm (5ft interval)
	68		FS=206 ppm				T=1600 R=2.5'/2.5'
	69		FS=229 ppm				
	70						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 9 OF 30 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	70	Same As Above SAND (SP) - loose, moist, tan, fine grain, strong hydrocarbon odor					T=1606 R=2.5'/2.5'
	71		FS=189.6 ppm		CA504-SB01-075		
	72		FS=268.9 ppm				HS=220.0 ppm (5ft-interval)
		Sand grains become very fine					
	73		FS=262.8 ppm				T=1616 R=2.5'/2.5'
	74		FS=287.7 ppm				
	75						T=1651 R=0/2.5'
	76						Recovery all slough, will used a closed sampling system for 77.5' + deeper
	77						End drilling, will Resume 2/6/13
	78		FS=132.1 ppm HS=173.7 (2.5ft interval) FS=127.4 ppm		CA504-SB01-080		Resume drilling 2/6/13@0820 T=0912 R=2.5'/2.5'
	79						
	80						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB01

HTRW DRILLING LOG

HOLE NO CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer L Allen

SHEET 10 OF 30 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	80	Same As Above SAND (SP)- loose, moist, tan, very fine grain, strong hydrocarbon odor					
	81	Some fine to Coarse Caliche nodules and calcareous silt 81.0-81.5 ft bgs	FS=97.9 ppm		CA504-SB01-085 and duplicate		T=0945 R=2.5'/2.5'
		Trace coarse caliche nodules 81.5'-85.0' bgs					
	82		FS=57.9 ppm		CA504-SB501-085 @ false time 0700		HS=187.3ppm (5-ft interval)
	83		FS=120.5 ppm				T=1030 R=2.5'/2.5'
	84		FS=104.5 ppm				
	85		FS=127.0 ppm				T=1123 R=2.5'/2.5
	86				CA504-SB01-090		
	87		FS=117.3 ppm				HS=231.7ppm (5-ft interval)
	88		FS=144 ppm				T=1207 R=2.5'/2.5'
	89		FS=128.1 ppm				
	90						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR [illegible]

SHEET 11 OF 30 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	90	Same As Above					
		SAND (SP) - loose, moist, tan, very fine grain, strong hydrocarbon odor.					
	91		FS= 76.0 ppm				T=1332 R= 2.5'/2.5
					CA504-SB01-095		
	92		FS= 97.7 ppm				HS=208.0 ppm (5 ft interval)
	93		FS= 170.1 ppm				T= 1400 R= 2.5'/2.5'
	94		FS= 174.3 ppm				
	95						T= 1457 R= 2.5'/2.5'
			FS= 89.6 ppm				
	96				CA504-SB01-100		HS= 182.9 ppm (5 ft interval)
	97		FS= 103.9 ppm				
							T=1556 R= 2.5'/2.5'
	98		FS= 117.0 ppm				
	99		FS= 109.2 ppm				
	100						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 12 OF 30 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
	100	Same As Above SAND (SP) loose, moist, tan, very fine grain, moderate to strong Hydrocarbon odor	FS=86.2 ppm				T=1615 R=2.5'/2.5'
	101	Some coarse Caliche nodules			CA504-SB01-105		
	102		FS=79.6 ppm				
							HS=138.3 ppm (5ft interval)
	103		FS=71.2 ppm				T=1640 R=2.5'/2.5'
	104		FS=86.8 ppm				
	105						Complete drilling for day @ 1640 Begin drilling 2-7-13 @ 0810
		Hydrocarbon odor increases	FS=150.6 ppm		CA504-SB01-110		
	106		FS=130.6 ppm				T=0830 R=2.5'/2.5'
	107						HS=270.5 ppm (5ft interval)
	108		FS=109.1 ppm				T=0848 R=2.5'/2.5'
	109		FS=106.3 ppm				
	110						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB01

125 | 116

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 13 OF 30 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	110	Same As Above SAND (SP) loose, moist, tan, very fine grain, trace fine caliche nodules, strong hydro carbon odor	FS=1.25 ppm				T=0950 R=2.5'/2.5'
	111		FS=116.6 ppm		CA504-SB01-115		
	112						HS=329.5 ppm (5-foot interval)
	113		FS=181.0 ppm				T=1008 R=2.5'/2.5'
	114		FS=196.9 ppm				
	115						"
	116		FS=89.4 ppm				T=1033 R=2.5'/2.5'
	117	-Some coarse caliche nodules	FS=189.4 ppm		CA504-SB01-120		HS=305.1 ppm (5-foot interval)
	118		FS=99.7 ppm				T=1104 R=2.5'/2.5'
	119		FS=126.5 ppm				
	120						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 14 OF 30 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	120	Same As Above					
		SAND (SP) loose, moist, tan, very fine grain, trace coarse calcite nodules, strong Hydrocarbon odor	FS= 113.8 ppm				T= 1150 R= 2.5'/2.5'
	121				CA504-SB01-125		
			FS= 104.9 ppm				
	122						
							HS= 338.8 ppm (5 feet interval)
	123		FS= 184.5 ppm				T= 1207 R= 2.5'/2.5'
	124		FS= 176.3 ppm				
	125	Bottom of Boring @ 125.0 ft bgs due to lack of drill rods					END TIME = 1207
	126						
	127						
	128						
	129						
	130						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 15 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	125	See previous CA504-SB01 logs for depths 0-125'. Resume SB01 sampling on 7-9-13	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA504-SB01-130	PP=Pocket Pen	START TIME = 0830
		Same as Above	FS=410 ppm				Time (T) 1545 Recovery (R) 5.0/5.0
	126	SAND (SP) - loose, moist, tan, very fine grained, trace caliche nodules, strong hydrocarbon odor.					
							Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	127						
	128						
	129						
	130						
			FS=251 ppm		CA504-SB01-135 + dup at 0800		0753 T=~~1555~~ SC R=5.0/5.0
	131						Resume drilling 7-10-13
	132						
	133						
	134						
	135						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 16 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	135	Same as above SAND (SP) loose, moist, tan, very fine grained, trace caliche nodules strong hydrocarbon odor	FS=488 ppm	NA	CA504-SB01-140	NA	T=0756 R=5/5.0 HS=49.6 ppm
	136						
	137						
	138						
	139						
	140		FS= 320 ppm		CA504-SB01-145 +MS/MSD		T=0850 R=5/5.0 HS=45.0 ppm
	141						
	142						
	143						
	144						
	145						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 17 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (HS = Head Space Screening; FS=Field Screening; BKG = Background; PPM=Parts Per Million; ND=Non Detect)	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS (PP=Pocket Pen)	REMARKS h.
	145	Same as above SAND (SP) loose, moist, tan, very fine grained, trace coarse quartz nodules strong hydro carbon odor	FS=360 ppm	NA	CA504-SB01-150	NA	START TIME = Time (T) 0858 Recovery (R) 5/5.0
	146						
	147						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	148						
	149						
	150	Becomes light tan slightly less odor	FS=400 ppm		CA504-SB01-155		T=0908 R=5/5.0 HS=53.0 ppm
	151						
	152						
	153						
	154						
	155	odor increases					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 18 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	155	Same as above SAND (SP) loose, moist, tan, very fine grained, trace calche nodules, strong hydrocarbon odor	FS=610 ppm	NA	CA504-SB01-160 tdup	NA	T=0933 R=5/5.0 HS=36.0 ppm
	156						
	157						
	158						Field screening for each sample is written at top of interval. e.g: 610 is for SB01-160
	159						
	160		FS=400 ppm		CA504-SB01-165		T=1030 R=5/5.0
	161						
	162						
	163						
	164						
	165						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 19 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	165	Same as above SAND (SP) loose, moist, tan very fine grained, few calcite nodules, strong hydrocarbon odor	FS=412 ppm	NA	CA504-SB01-170	NA	T=1050 R=5/5.0
	166						
	167						
	168						
	169						
	170		FS=355 ppm		CA504-SB01-175		T=1120 R=5/5.0
	171						HS=501 ppm
	172						
	173						
	174						
	175						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conrad

SHEET 20 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	175	Same as above: SAND (SP) loose, moist, tan. Very fine grained, few calicte nodules. Strong hydrocarbon odor	FS=385 ppm	NA	CA504-SB01-180 +MS/MSD	NA	T=1130 R=5.0/5.0
	176						HS=73.5ppm
	177						
	178						
	179						
	180						
	181		FS=400 ppm		CA504-SB01-185		T=1245 R=5/5.0
	182	with increasing grey sand					HS=41.8 ppm
	183						
	184						
	185						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR

SHEET 21 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	185	Same as above	FS ~~435~~ ppm	NA	CA504-SB01-190	NA	T=1315 R=5/5.0
	186	SAND(SP) loose, moist, tan very fine grained few caliche nodules, strong Hydrocarbon odor					
	187						HS=49.8 ppm
	~~188~~						
	189						
	190		FS=300 ppm		CA504-SB01-195		T=1325 R=5/50
	191						
	192						HS=47.5 ppm
	193						
	194						
	~~195~~						
	195						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

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SHEET 22 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	195	Same as above SAND(SP) loose, moist, tan very fine grained, few caliche nodules, strong Hydrocarbon odor	FS=372 ppm	NA	CA504-SB01-200	NA	T=1350 R=5/5.0
	196						
	197						
	198						
	199						
	200		FS=360 PPM	NA	CA504-SB01-205	NA	T=1405 R=5/5.0
	201						
	202						
	203						
	204						
	205	sandstone cobbles					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 23 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	205	Same as above SAND (SP) - loose, moist, tan very fine grained, trace caliche nodules. Strong hydrocarbon odor	FS=145 ppm	NA	CA504-SB01-210	NA	T=1425 R=5/5.0
	206						
	207						
	208						
	209						
	210		FS=180 ppm		CA504-SB01-215		T=1435 R=~~1435~~ 5/5.0
	211						
	212	Coarse sandstone gravel					
	213						
	214						
	215	Sandstone cobbles					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conrad

SHEET 24 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	215	Same as above SAND (SP) loose, moist, tan, very fine grained. Some calcite hydrocarbon odor less strong	FS=148	NA	CA504 -SB01 -220	NA	T=1508 R=5/5.0 HS=40.5 ppm
	216						
	217						
	218						
	219						
	220		FS=200 ppm		CA504 -SB01 -225		T=1535 R=5/5.0 HS=37.9 ppm
	221						
	222						
	223						
	224						
	225						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 25 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	225	Same as above SAND (SP) loose, moist, tan very fine grained, some calizte nodules, hydrocarbon odor less strong slightly.	FS=118 PP	NA	CA504-SB01-230	NA	T=0750 R=5/5.0
	226						Resume drilling 7-11-13
	227						
	228	with less calizte					
	229						
	230		~~FS=110~~ PPM FS=240		CA504-SB01-235		T=0803 R=5/5.0
	231						
	232						
	233						
	234						
	235						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conodi

SHEET 26 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	235	Same as above	FS=65.8 ppm	NA	CA504-SB01-240 + dup	NA	T=0824 R=5/5.0
		SAND (SP) loose, moist, tan very fine grained, some calcite nodules, hydrocarbon odor					
	236						
	237						
							* lower reading + less odor could be from less volatilization due to lower temps. of air.
	238						
	239	less hydrocarbon odor.					
	240		FS=125 ppm		CA504-SB01-245		T=0905 R=5/5.0
	241						
	242						
	243						
	244						
	245						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conrad

SHEET 27 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	245	Same as above	FS=~~34.0~~ ppm 34.0	NA	CA504-SB01-250	NA	T=0915 R=5/5.0
		SAND (SP) loose, moist, tan very fine grained, few caliche nodules					
	246						
	247						
	248						
	249						
		Some sandstone cobbles					
	250		FS=333 ppm		CA504-SB01-255		T=1115 R=5/5.0
	251						
	252						
	253						
	254						
	255						

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HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 28 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	255	Same as above SAND (SP) loose, moist, tan Very fine grained. few calcite nodules, hydrocarbon odor	FS=185 ppm	NA	CA504 -SB01 -260	NA	T=1152 R=5/5.0
	256						
	257						
	258						
	259						
	260	Becomes dark tan with increasing moisture	FS=400 ppm	NA	CA504 -SB01 -265	NA	T=1236 R=5/5.0
	261						
	262						
	263						
	264						
	265	Increasing ~~clay~~ silt chunks					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Condr

SHEET 29 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	265	Same as above SAND (SP) loose, moist, tan very fine grained.	FS=90 ppm		CA504 -SB01 -270		T=1425 R=5/5.0
	266	Silty SAND (SM) stiff, moist, tan very fine grained, compacted					
	267	SAND (SP) loose, moist, tan very fine grained					
	268	No Hydro carbon odor					
	269						
	270		FS=77 ppm		CA504 -SB01 -275		T=1430 R=5/5.0
	271						
	272						
	273						
	274						
	275	No hydrocarbon odor					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB01

HTRW DRILLING LOG

HOLE NO. CA504-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J. Conradi

SHEET 30 OF 30 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	275	Same as above SAND (SP) - loose, moist, tan, very fine grained No Hydro carbon odor					
	276	Bottom of Boring 276 ft.					End time = 1435
	277						
	278						
	279						
	280						

PROJECT Site Investigation at 8 Sites, Cannon AFB

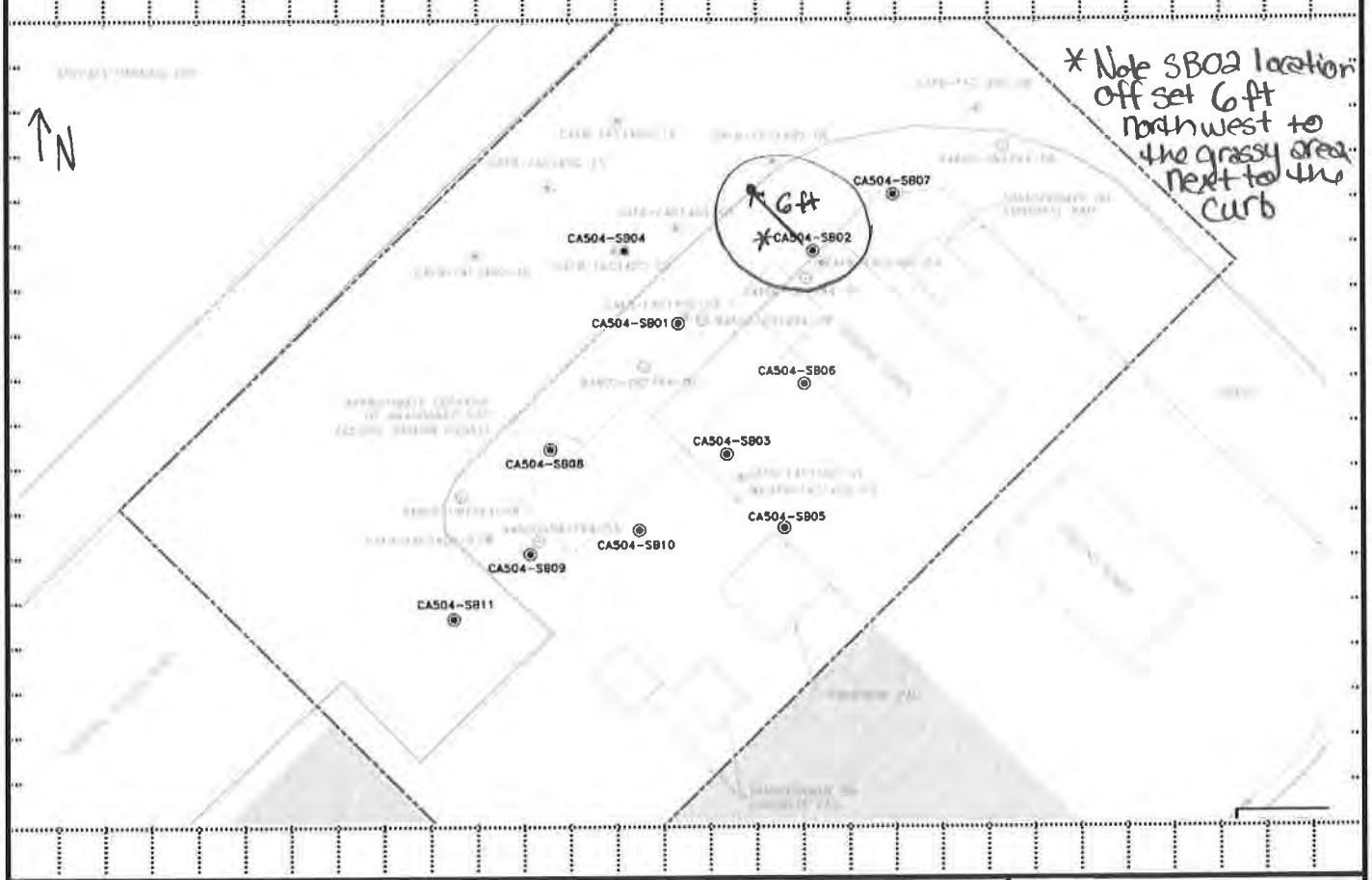
HOLE CA504-SB01

HTRW DRILLING LOG

DISTRICT	AFCEC-FA8903-08-D-8783-TO-0169
HOLE NUMBER	CA504-SB02
1. COMPANY NAME	URS Corp.
2. DRILLING SUBCONTRACTOR	Plains Environmental Services
SHEET	1 OF 10 SHEETS
3. PROJECT	Site Investigation at 8 Sites, Cannon AFB
4. LOCATION	CA504-SB02, Cannon AFB, Clovis, NM
5. NAME OF DRILLER	Jessie Kalvig
6. MANUFACTURE'S DESIGNATION OF DRILL	GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	5-foot long Macro Core Sampler with a 1 5/8" diameter sample liner
8. HOLE LOCATION	1238836.586 N 844718.411 E
9. SURFACE ELEVATION	4312.0 ft above msl
10. DATE STARTED	2-7-13 @ 1340
11. DATE COMPLETED	2-8-13 @ 0
12. OVERBURDEN THICKNESS	N/A
15. DEPTH GROUNDWATER ENCOUNTERED	Groundwater Not Encountered
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	N/A
14. TOTAL DEPTH OF HOLE	Refusal @ 85.2 feet (ft) below ground surface (bgs)
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A
18. GEOTECHNICAL SAMPLES	Ø
DISTURBED	✓
UNDISTURBED	✓
19. TOTAL NUMBER OF CORE BOXES	N/A
20. SAMPLES FOR CHEMICAL ANALYSIS	19
VOC	BTEX + Naphthalene
METALS	—
OTHER (SPECIFY)	SVOCs (Site Specific)
OTHER (SPECIFY)	TPH-GRO/DRO
OTHER (SPECIFY)	—
21. TOTAL CORE RECOVERY	N/A %
22. DISPOSITION OF HOLE	ABANDONED
BACKFILLED	Bentonite Pellets
MONITORING WELL	—
OTHER (SPECIFY)	—
23. SIGNATURE OF INSPECTOR	

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



* Note SB02 location off set 6ft northwest to the grassy area next to the curb

PROJECT	Site Investigation at 8 Sites, Cannon AFB
HOLE	CA504-SB02

HTRW DRILLING LOG

HOLE NO. CA504-SB02

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 7 OF 10 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Sandy SILT (ML) - Stiff, moist, brown, slight plasticity, fine sand, some gravel 0 to 0.3' (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen PP=3.0	START TIME = 1340 Time (T) Recovery (R) T=1348 R=4.1'/5.0'
	1						
	2	Calcareous Silt, Soft, dry, white with fine to coarse caliche	FS=ND HS=ND		CA504-SB02-005	PP=0.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO ~~TPH GRO and~~ BTEX + napthalene collected from the bottom of the sample interval
	3	Becomes hard, dry				PP=4.5	
	4					NO Recovery	
	5	Native Surface @ 5.0 ft.bgs SILT (ML) - Stiff, moist, pale tannish-white, slight plasticity, Calcareous				PP=3.0	T=1357 R=5.0'/5.0'
	6						
	7	Some fine to coarse Caliche nodules	HS=ND FS=ND		CA504-SB02-010		
	8					PP=2.5	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA 504-SB02

HTRW DRILLING LOG

HOLE NO. CA504-SB02

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 3 OF 10 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same As Above SILT (ML) - Stiff, dry, pale tannish-white, slight plasticity, fine to coarse caliche nodules, calcareous	FS=ND			PP=3.0	T=1404 R=2.5'/2.5'
	11						
	12				CA504-SB02-015	PP=3.5	HS=ND (5 foot interval)
	13		FS=ND			PP=3.0	T=1407 R=2.5'/2.5'
	14					PP=3.0	
	15	Becomes sandy, sand is brownish red and fine grain					
	16		FS=ND			PP=2.5	T=1426 R=2.5'/2.5'
	17				CA504-SB02-020		
	18		FS=ND				T=1435 R=2.5'/2.5
	19						
	20	Silty SAND (SM) - Dense, dry, reddish-brown with white calcareous silt mottling, very fine grain	FS=3.1 ppm (@19.6 ft bgs) HS=9.0 ppm				

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB02

HTRW DRILLING LOG

HOLE NO. CA504-SB02

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 9 OF 10 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same As Above Silty SAND (SM) - Dense, dry, reddish-brown with white calcareous silt mottling, very fine grain, moderate Hydro carbon odor					T= 1520 R= 2.5'/2.5'
	21		FS= 20.1 ppm		CA504-SB02-025		
	22		FS= 22.8 ppm		and duplicate CA504-SB502-025 @ false time 0780		HS= 197.5 ppm (5-foot interval)
	23		FS= 177.6 ppm				T= 1538 R= 2.5'/2.5'
	24		FS= 242 ppm				
	25						
	26	SAND (SP) - loose, dry, light tan with orange staining, very fine grain, strong hydrocarbon odor	FS= 119.8 ppm				T= 1550 R= 2.5'/2.5'
	27		FS= 127.3 ppm		CA504-SB02-030		HS= 154.7 ppm (5-foot interval)
	28		FS= 193.8 ppm				T= 1557 R= 2.5'/2.5'
	29	Becomes Solid-tan with trace fine caliche nodules	FS= 156.2 ppm				
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB02

HTRW DRILLING LOG

HOLE NO. CA504-SB02

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 5 OF 10 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	30	Same As Above SAND (SP) - loose, ~~moist~~ dry, tan, very fine grain, strong hydrocarbon odor	FS=172.4 ppm				T=1605 R=2.5'/2.5'
	31				CA504-SB02-035		
			FS=158.8 ppm				
	32						HS=180.0 ppm (5 ft interval)
	33		FS=234.1 ppm				T=1609 R=2.5'/2.5'
	34		FS=271.6 ppm				
	35		FS=241.3 ppm				T=1615 R=2.5'/2.5'
	36				CA504-SB02-040		
	37		FS=267.1 ppm				HS=247.6 ppm (5-ft interval)
	38		FS=190.3 ppm				T=1640 R=2.5'/2.5'
	39		FS=191.4 ppm				
	40						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB02

HTRW DRILLING LOG

HOLE NO. CA504-SB02

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 6 OF 10

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	40	Same As Above SAND (SP)-loose, dry, tan, very fine grain, some fine caliche nodules Strong hydrocarbon odor					Resumed drilling 2/8/13 @ 0810
	41		FS=238.7 ppm				T= 0820 R= 2.5'/2.5'
			FS=187.4 ppm		CA504-SB02-045		
	42						HS=296.7ppm (5-foot interval)
	43		PID=407.1 ppm				T= 0830 R= 2.5'/2.5'
	44		FS= 357.6 ppm				
	45		FS=517.0 ppm				
	46		FS=402.0 ppm		CA504-SB02-050		T= 0840 R= 2.5'/2.5'
	47						HS=267.7ppm (5-foot interval)
	48		FS=372.3 ppm				T= 0852 R= 2.5'/2.5
	49		FS=455.0 ppm				
	50						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB02

HTRW DRILLING LOG

HOLE NO. CA504-SB02

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 7 OF 10 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	50	SAME AS ABOVE SAND (SP) - loose, dry, tan, very fine grain, trace fine caliche nodules	FS=318.8ppm				T=0900 R=2.5'/2.5'
	51	Stained caliche (grey to dark grey)	FS=351.9ppm				
	52	Becomes moist, fine grain (sharp change in grain size and moisture)			CA504-SB02-055		HS=2664ppm (5-foot interval)
	53		FS=376.6ppm				T=0921 R=2.5'/2.5'
		Trace medium grain sand Becomes clear (No caliche nodules), from 53.5'-57.5'					
	54		FS=360.1ppm				
	55						
			FS=267.6ppm				T=0951 R=2.5'/2.5'
	56						
			FS=232.2ppm		CA504-SB02-060		
	57	Trace fine caliche nodules					HS=277.0ppm
	58						T=1007 R=2.5'/2.5
			FS=295.0ppm				
	59						
	60						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB02

HTRW DRILLING LOG

HOLE NO. CA504SB02

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 8 OF 10 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	60	Same As Above SAND(SP)- loose, moist, tan, fine grain, Strong Hydrocarbon odor, trace medium grain sand	FS=250.0ppm				
	61						T=1025 R=2.5'/2.5'
		Becomes very fine sand, medium dense, some fine to coarse caliche nodules	FS=247.6ppm		CA504-SB02-065		
	62						HS=289.6 ppm (5-foot interval)
	63		FS=202.1ppm				
		Transitions to fine grain, no caliche					T=1033 R=2.5'/2.5'
	64		FS=267.0ppm				
	65						T=1045 R=2.5'/2.5'
			FS=311.1ppm				
	66				CA504-SB02-070		
			FS=249.5ppm				
	67						HS=277.3ppm (5-foot interval)
		Trace fine caliche					
	68		207.3ppm				T=1055 R=2.5'/2.5'
	69		169.0ppm				
	70						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504SB02

HTRW DRILLING LOG

HOLE NO. CA504-SB02

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Dale

SHEET 9 OF SHEETS 10

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	70	Same As Above SAND (SP) - medium dense, wet, moist, very fine grain, strong hydrocarbon odor	FS=206.8 ppm				
	71						T=1155 R=2.5'/2.5'
			FS=225.9 ppm		CA504-SB02-075		
	72						HS=333.9 ppm (5 foot interval)
	73		FS=190.2 ppm				T=1210 R=2.5'/2.5'
	74		FS=136.4 ppm				
	75						
	76		FS=196.2 ppm		CA504-SB02-080 and duplicate		T=1216 R=2.5'/2.5'
			FS=154.0 ppm				
	77				CA504-SB02-080 @ false time 0700		HS=272.5 ppm (5-foot interval)
	78		FS=186.8 ppm				T=1235 R=2.5'/2.5'
	79		FS=159.3 ppm				
	80						

Tier two

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB02

HTRW DRILLING LOG

HOLE NO. CA504-SB02

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 10 OF 10 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	80	Same As Above					
		SAND (SP) - medium dense, moist, tan, very fine grain, Strong hydro carbon odor					
	81		FS=153.6 ppm				T=1300 R=2.5'/2.5'
		Becomes dense, high content of fine caliche nodules					
	82		FS=139.9 ppm		CA504-SB02-085		
		Trace silt content, lightens to pale tan					HS=145.0 ppm (5 ft interval)
	83		FS=236.7 ppm				T=1300 R=2.5'/2.5'
	84		FS=141.2 ppm				
	85						END TIME = 1320
		Refusal @ 85.2 ft bgs					
	86						
	87						
	88						
	89						
	90						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB02

HTRW DRILLING LOG

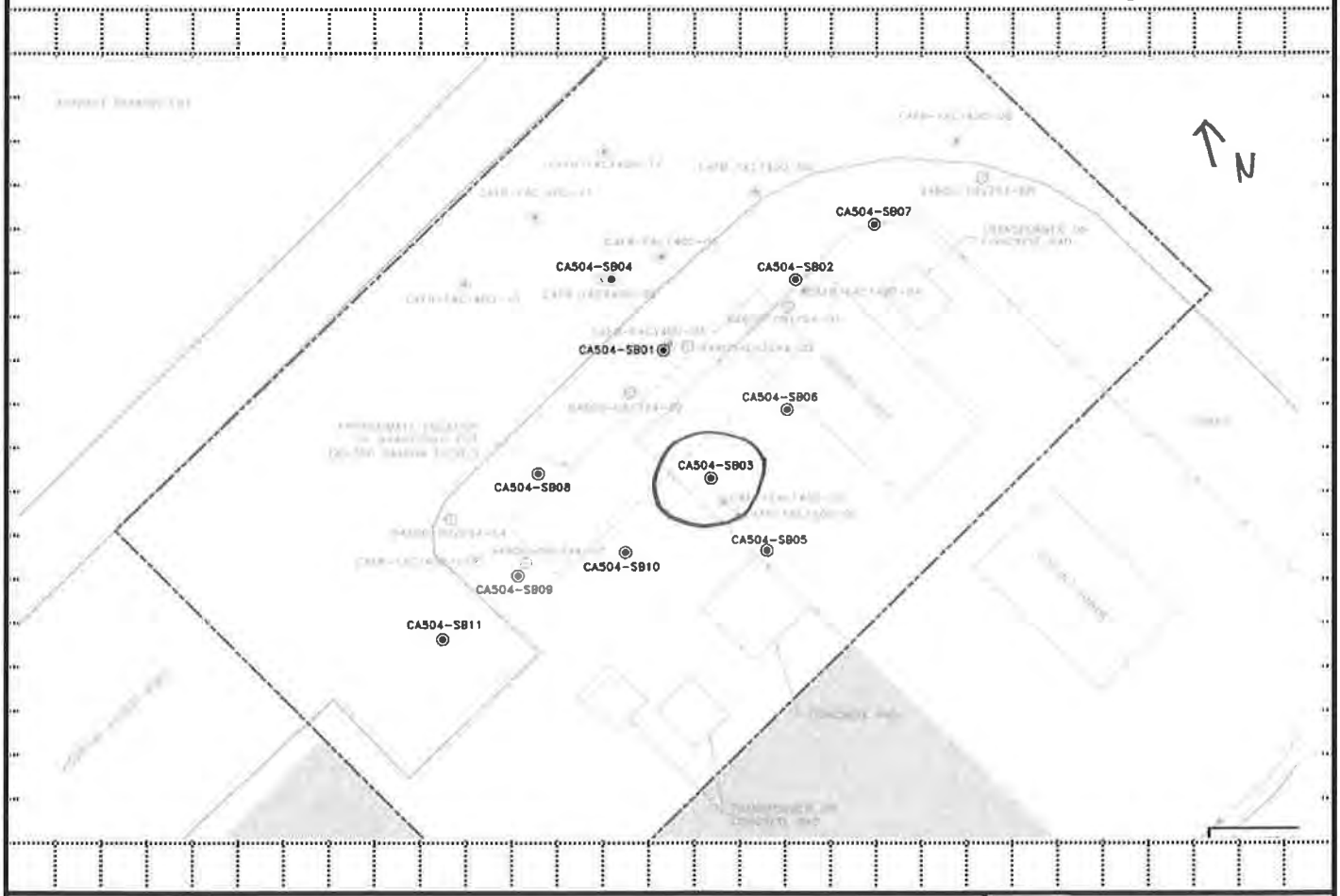
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA504-SB03
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 7
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA504-SB03, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long, Macro Core Sampler with a 1 5/8" diameter sample liner		8. HOLE LOCATION: 1238813.093 N 844719.474 E
		9. SURFACE ELEVATION: 4313.5 ft above msl
		10. DATE STARTED: 2-12-13 @ 0930 / 11. DATE COMPLETED: 2-12-13 @ 1334
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: Refusal @ 52.0 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
13	BTEX + Naphthalene	—	Site Specific SVOCs	TPH-GRO	DRO	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer [illegible]

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB03

HTRW DRILLING LOG

HOLE NO. CA504-SB03

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer L Allen

SHEET 2 OF 7 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND (SM)-loose, dry, reddish-brown, fine grain (Fill)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND FS= ND			PP=Pocket Pen	START TIME = 0930 Time (T) Recovery (R) T=0937 R=5.0'/5.0'
	1						
	2				CA504-SB03-005		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO BTEX Collected from the bottom of the sample interval
	3						
	4						
	5						
	6						T=0948 R=5.0'/5.0'
	7		FS=ND		CA504-SB03-010		
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB03

HTRW DRILLING LOG

HOLE NO. CA504-SB03

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer L Allen

SHEET 3 OF 7

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Silty SAND (SM) - loose, dry, reddish-brown, very fine grain (FILL)					
	11	SAME AS ABOVE					
	12		FS=ND HS=ND		CA504-SB03-015		T=0957 R=5.0'/5.0'
	13						
	14						
	15						
	16	Native Surface @ 16.1 ft bgs. SILT (ML) - Medium Stiff, dry, pale tannish-white, Slight Plasticity, Calcareous, faint chemical odor	FS=2.6 ppm		CA504-SB03-020	PP=1.5	T=1010 R=2.5'/2.5'
	17						
	18					PP=1.5	HS=11.6 ppm (5-ft interval) T=1018 R=2.5'/2.5
	19		FS=ND				
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB03

HTRW DRILLING LOG

HOLE NO. CA504-SB03

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 4 OF 7 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same As Above SILT (ML) - Medium Stiff, dry, pale tannish white with some reddish-brown fine sand, Slight plasticity, Calcareous, Slight chemical odor	FS=ND		CA504-SB03-025 and duplicate	PP=2.0	T=1029 R=2.5'/2.5'
	21						
	22		FS=8.6 ppm				
					CA504-SB503-025 @ false time 0630		HS=22.8 ppm (5ft interval)
	23		FS=30.2 ppm				T=1035 R=2.5'/2.5'
	24	Increased chemical odor	FS=89.1 ppm				
	25						
		Odor becomes Strong, sweet chemical odor	FS=118.9 ppm				T=1046 R=2.5'/2.5'
	26				CA504-SB03-030		
	27		FS=191.7 ppm				
							HS=163.5 ppm (5-ft interval) T=1054 R=2.5'/2.5'
	28	Increased sand	FS=180.0 ppm				
	29	SAND (SP) - loose, dry, tan, very fine grain, trace silt	FS=169.9 ppm				
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB03

HTRW DRILLING LOG

HOLE NO. CA504-SB03

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jenifer L Ar

SHEET 5 OF 7 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	30	Same As Above SAND (SP) - loose, dry, pale tan, very fine grain, strong sweet chemical odor	FS=64.7ppm				T=1107 R=2.5'/2.5'
	31						
			FS=111.3ppm		CA504-SB03-035		
	32						HS=135.6ppm (5-ft interval)
	33		FS=92.0ppm				T=1112 R=2.5'/2.5'
	34		FS=78.7ppm				
	35						
		Odor changes to chemical/ hydrocarbon	FS=117.8ppm				
	36				CA504-SB03-040 and duplicate		T=1120 R=2.5'/2.5'
			FS=159.6ppm				
	37						HS=241.0ppm (5ft interval)
	38		FS=141.8ppm		CA504-SB503-040 @ same time		T=1137 R=2.5'/2.5'
	39		FS=149.6ppm		0700		
	40						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB03

HTRW DRILLING LOG

HOLE NO. CA504-SB03

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 6 OF SHEETS 7

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	40	Same As Above ~~SAME AS ABOVE~~ SAND (SP) - loose, dry, tan, very fine grain, moderate hydro carbon odor	FS=171.9 ppm				T=1140 R=2.5'/2.5'
	41				CA504-SB03-045		
	42		FS=202.2 ppm				HS=153.0 ppm (5-ft interval)
	43		FS=189.6 ppm				T=1148 R=2.5'/2.5
	44	Hydrocarbon odor becomes strong	FS=259.1 ppm				
	45		FS=120.8 ppm				T=1319 R=2.5'/2.5'
	46		FS=149.0 ppm		CA504-SB03-050		
	47						
	48		FS=151.2 ppm				T=1324 R=2.5'/2.5'
	49		FS=163.8 ppm				
	50						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB03

HTRW DRILLING LOG

HOLE NO. CA504-SB03

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer

SHEET 7 OF SHEETS 7

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	50	Same As Above SAND (SP)- loose, dry, tan, very fine grain, Strong hydrocarbon Odor	FS=1616 ppm		CA504-SB03-052		T=1334 R=2.0'/2.0'
	51						
	52	Refusal @ 52.0 ft bgs					END TIME = 1334
	53						
	54						
	55						
	56						
	57						
	58						
	59						
	60						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB03

HTRW DRILLING LOG

DISTRICT: AFCEC-FA 8903-08-D-8883-TO-0169		HOLE NUMBER: CA504-SB04
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 6 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA504-SB04, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" diameter sample liner	8. HOLE LOCATION: 1238836.561 N 844705.925 E	
	9. SURFACE ELEVATION: 4310.9 ft above msl	
	10. DATE STARTED: 2-10-13@1227	11. DATE COMPLETED: 2-10-13@1534
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: No Groundwater Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 49.8ft bgs (below ground surface)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

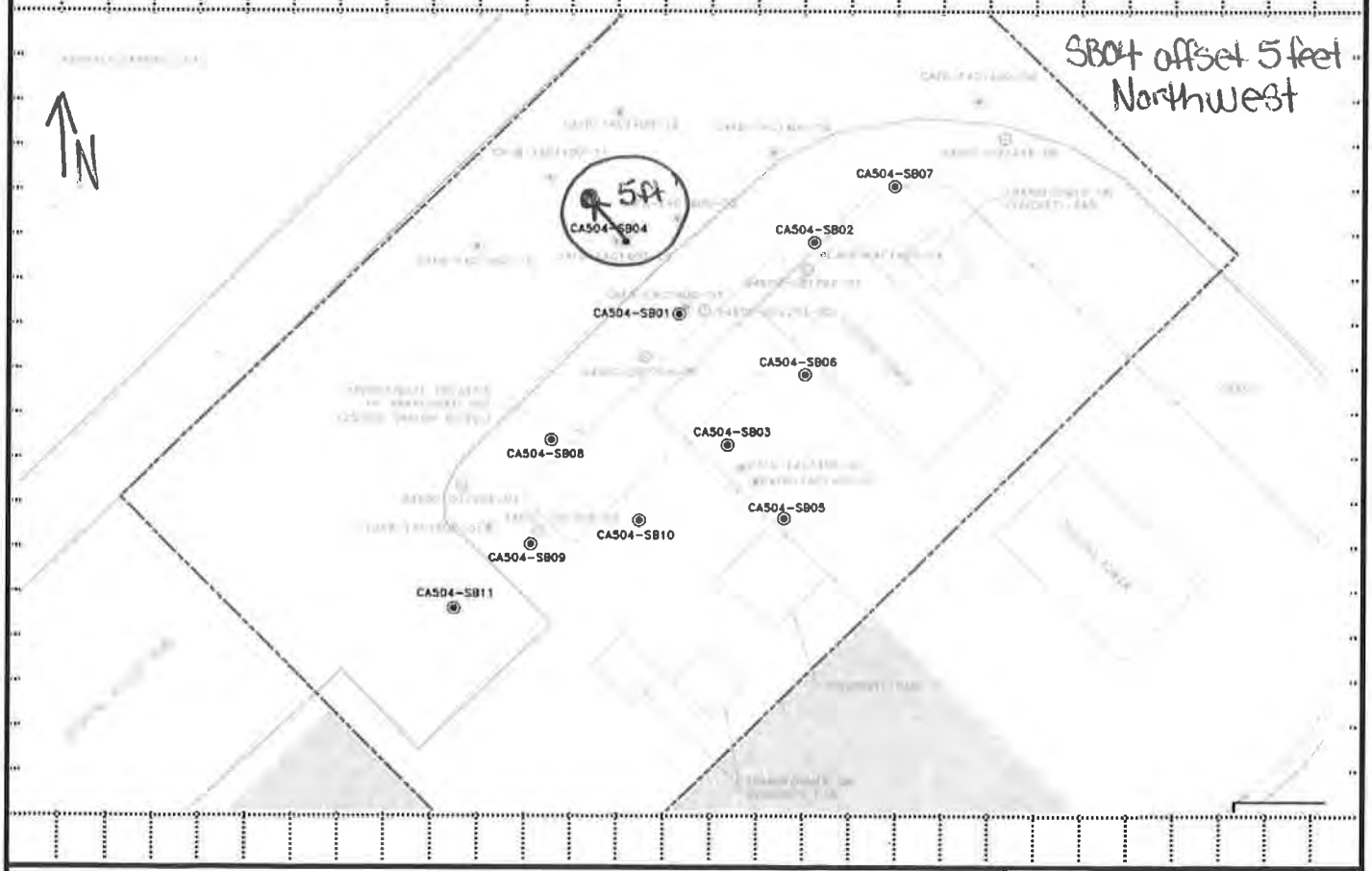
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø			N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
11	BTEX + Naphthalene	—	Site Related SVOCs	TPH-DRO/ORO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB04

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA504-SB04

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer Allen

SHEET 2 OF 6 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	ASPHALT and GRAVEL	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1240 Time (T) Recovery (R)
	1	Silty CLAY with GRAVEL (CL-GP)- moist, stiff, dark brown, medium plasticity, gravel is fine to coarse and angular (FILL)	FS=ND		CA504-SB04-005	PP=3.5	T=1247 R=5.0'/5.0' Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	2	CLAY (CL) - Stiff, moist, dark brown, medium plasticity (FILL)	HS=ND			PP=3.0	BTEX Called from the bottom of the sample interval (for all 5-ft sample intervals)
	3						
	4	Native Surface @ 4.5ft bgs					
	5	SILT (ML) - medium stiff, dry, pale orangish-white, slight plasticity, coarse caliche nodules, calcareous					
	6				CA504-SB04-010	PP=2.0	T=1301 R=5.0'/5.0'
	7		FS=ND HS=ND				
	8					PP=2.0'	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB04

HTRW DRILLING LOG

HOLE NO. CA504-SB04

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR

SHEET 3 OF SHEETS 6

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
	10	Same As Above					
	11	SILT (ML) - Medium Stiff, dry, pale orange-white, slight plasticity, fine to coarse caliche nodules, calcareous	FS=ND		CA504-SB04-015	PP=2.0	T=1306 R=2.5'/2.5'
	12						HS=ND (5-foot interval)
	13		FS=ND			PP=2.0	T=1311 R=~~2.5'/2.5'~~ R=2.5'/2.5'
	14						
	15						
	16	Sharp Contact @ 16.4 ft bgs					
	17	SILTY SAND (SM) - Dense, dry, Orangish-brown, fine grain, Some white caliche mottling	FS=ND HS=ND		CA504-SB04-020		T=1330 R=5.0'/5.0'
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB04

HTRW DRILLING LOG

HOLE NO. CA504-SB04

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 4 OF 6 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same As Above Silty SAND (SM) - dense, dry, pale orangish-brown with white caliche mottling, slight plasticity					
	21		FS=ND		CA504-SB04-025		T=1335 R=2.5'/2.5'
	22	→ Increased calcareous SILT, lightens to pale orangish-tan					
							HS=7.8 ppm (5-feet interval)
	23		FS=ND				T=1345 R=2.5'/2.5'
	24	Very light sweet chemical odor					
	25						
	26		FS=ND		CA504-SB04-030 and duplicate CA504-SB504-030 @ false time 1800		T=1351 R=2.5'/2.5'
	27						
							HS=50.1 ppm (5-ft interval)
	28	Increased chemical odor Decreasing SILT	FS=19.2 ppm				T=1400 R=2.5'/2.5'
	29						
	30	SAND (SP) - loose, moist, pale orangish-tan, very fine grain, has a sweet chemical odor					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB04

HTRW DRILLING LOG

HOLE NO. CA504-SB04

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Miller

SHEET 5 OF 6 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	30	SAND (SP)- loose, moist, pale orangish-tan, very fine grain, moderate sweet chemical odor, trace fine caliche nodules					
			FS=12.6 ppm				T=1420 R=2.5'/2.5'
	31				CA504-SB04-035		
			FS=15.2 ppm				
	32						109.9 ppm ~~HS=50.1ppm~~ (5-ft interval)
	33		FS=48.0 ppm				T=1425 R=2.5'/2.5'
	34		FS=32.2 ppm				
	35		FS=21.4 ppm				T=1431 R=2.5'/2.5'
	36		FS=29.7 ppm		CA504-SB04-040		
	37						HS=167.9 ppm (5-feet interval)
	38	Odor changes to a hydro-carbon odor	FS=56.7 ppm				T=1444 R=2.5'/2.5
	39		FS=72.0 ppm				
	40						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB04

HTRW DRILLING LOG

HOLE NO. CA504-SB04

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR:

SHEET 6 OF 6

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	40	Same As Above SAND (SP) - loose, dry, pale orangish-tan, very fine grain, moderate hydrocarbon odor, trace fine caliche nodules	FS=76.0ppm				T=1458 R=2.5'/2.5'
	41		FS=86.7ppm		CA504-SB04-045		
	42						HS=192.6ppm (5-foot interval)
	43		FS=88.9ppm				T=1503 R=2.5'/2.5'
	44		FS=92.7ppm				
	45		FS=91.8ppm				T=1517 R=2.5'/2.5'
	46		FS=98.2ppm		CA504-SB04-050		
	47	Increased hydrocarbon odor, Increased caliche					HS=220.5ppm (5-ft interval)
	48		FS=351.0ppm				T=1534 R=2.5'/2.5'
	49		FS=377.8ppm				
	50	Refusal @ 49.8 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB04

HTRW DRILLING LOG

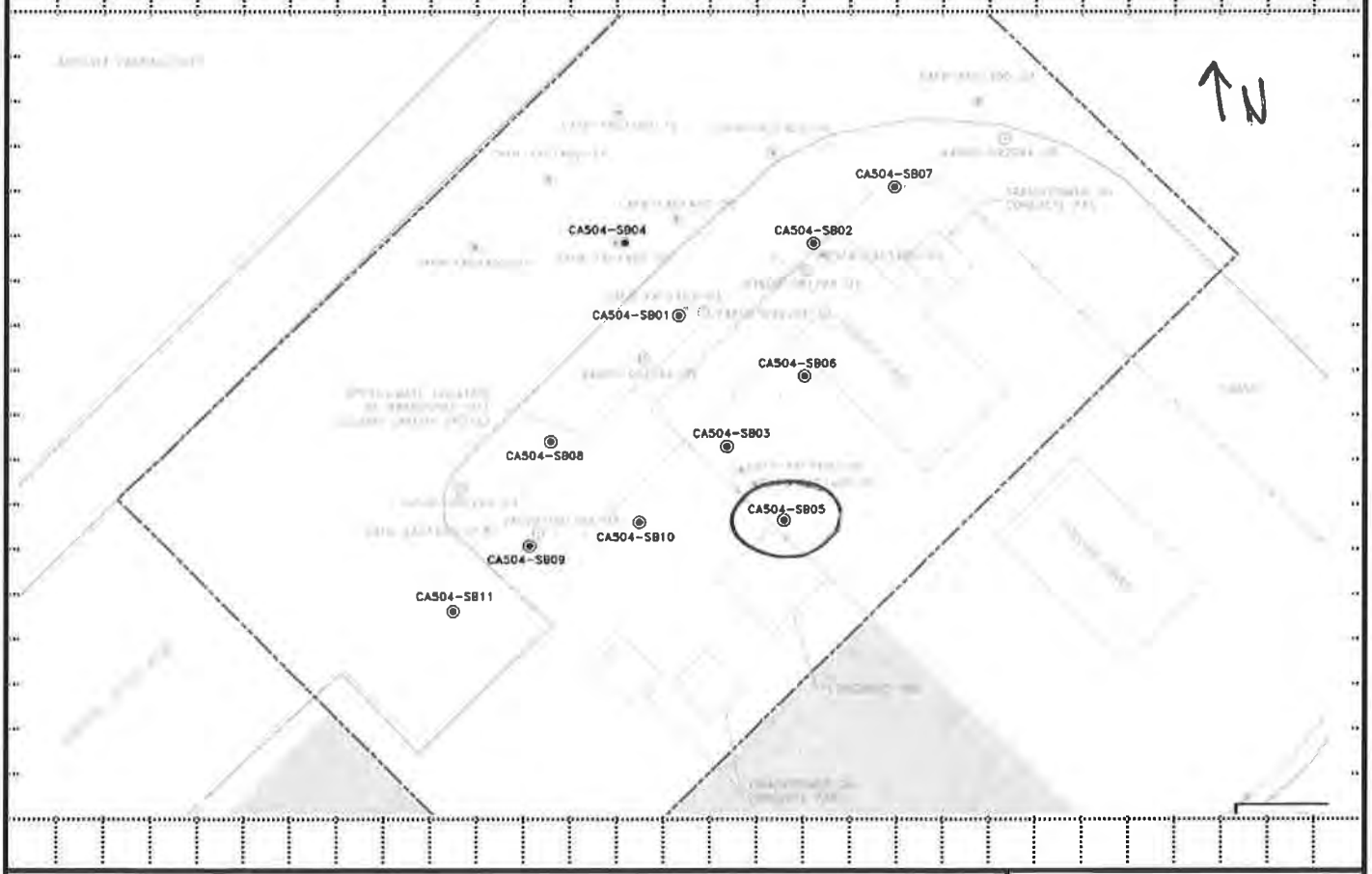
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA504-SB05
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA504-SB05, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" diameter sample liner		8. HOLE LOCATION: 1238808.944 N 844723.882 E
		9. SURFACE ELEVATION: 4314.2 ft above msl
		10. DATE STARTED: 2-13-13 @ 1345
		11. DATE COMPLETED: 2-13-13 @ 1438
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 25 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	BTEX + Naphthalene	~~Lead~~ 2x8	Site Specific SVOCs	TPH ~~GRO~~ DRO/DRO		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS — SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB05

HTRW DRILLING LOG

HOLE NO. CA504-SB05

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	Sandy SILT (ML) - Stiff, dry, brown, slight plasticity, fine sand (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen PP=2.5	START TIME = ~~1330~~ 1345 Time (T) Recovery (R) T=1351 R=5.0'/5.0'
	1						
	2		FS=ND HS=ND		CA504-SB05-005	PP=2.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO BTEX Collected from the bottom of the sample interval
	3	Calcareous 2.8'-3.8'					
	4						
	5	Native Surface @ 5.5 ft bgs Becomes Calcareous SILT (ML) - medium stiff, dry, white with some tan sand mottling, slight plasticity, high amount of caliche					
	6					PP=1.5	T=1403 R=5.0'/5.0'
	7		FS=ND HS=ND		CA504-SB05-010		
	8					PP=1.5	
	9						
	10						

HTRW DRILLING LOG

HOLE NO. CA504-SB05

PROJECT: .e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same As Above SILT (ML) - Medium stiff, dry, white with tan sand mottling, Slight plasticity, Calcareous					
	11				CA504-SB05-015		T=1417 R=5.0'/5.0'
	12		FS=ND HS=ND			PP=2.0	
		Increased sand, becomes a Sandy SILT (ML)					
	13						
	14						
	15						
	16		FS=ND			PP=1.5	T=1421 R=2.5'/2.5'
	17				CA504-SB05-020		HS=ND (5-ft interval)
	18		FS=ND			PP=2.0	T=1428 R=2.5'/2.5
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB05

HTRW DRILLING LOG

HOLE NO. CA504-SB05

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 4 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same As Above Sandy SILT (ML) - medium stiff, dry, white with tan sand mottling, slight plasticity, calcareous	FS-ND		CA504-SB05-025	PP=1.5	T=1432 R=2.5'/2.5'
	21						
	22						HS=ND (5-ft interval)
	23		FS-ND			PP=1.5	T=1438 R=2.5'/2.5'
	24						
	25	Bottom of Boring @ 25.0 ft bgs					END TIME =1438
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB05

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA504-SB06	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA504-SB06, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-feet long Macro Core Sampler with a 1 5/8" diameter sample liner	8. HOLE LOCATION: 1238800.764N 894716.35E	
	9. SURFACE ELEVATION: 4313.4 ft above MSL	
	10. DATE STARTED: 2/13/13 @ 1445	11. DATE COMPLETED: 2/13/13 @ 1545
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 25 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

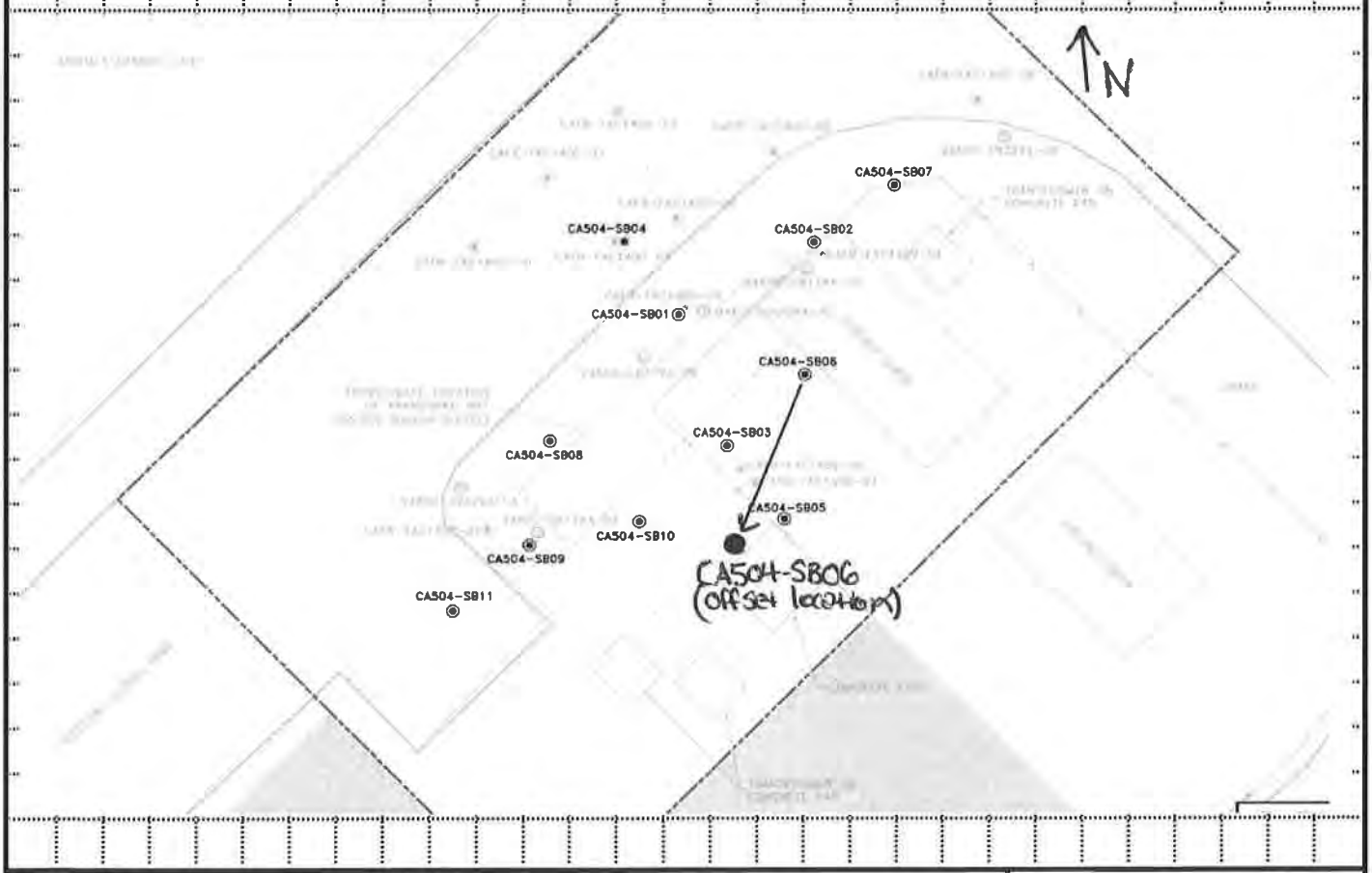
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
6	BTEX + Naphthalene	—	Site Specific SVOCs	TPH-ORO/DRO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB06

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA504-SB06

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND (SM) - loose, dry, orangish-brown, fine grain, Some gravel 0-1.5ft bgs (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1445 Time (T) Recovery (R)
	1		FS= ND		CA504-SB06-005		T=1454 R=4.5'/5.0' Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	2	Silt (ML) - Stiff, dry, brown, Slight plasticity, Some very fine sand (FILL)	HS=ND			PP=2.5	BTEX Collected from the bottom of the sample interval
	3						
	4						
						NO Recovery	
	5					PP=3.0	
	6	Sharp Contact, Native @ 6.3ft bgs Silt (ML) - medium Stiff, dry, White with Some tan sand mottling, Slight plasticity, Calcareous			CA504-SB06-010		T=1504 R=5.0'/5.0'
	7		FS=ND HS=ND			PP=1.5	
	8						
	9	Becomes Sandy SILT (ML)					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB06

HTRW DRILLING LOG

HOLE NO. CA504-SB06

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same As Above Sandy SILT (ML) - Medium Stiff, dry, white with tan sand mottling, Slight plasticity, Sand is very fine, Calcareous	FS=ND		CA504-SB06-015 and duplicate	PP=2.0	T= 1505 R=2.5'/2.5'
	11						
	12						HS= ND (5-ft interval)
	13		FS=ND		CA504 SB506-015@ false time 0700	PP=2.0	T= 1522 R=2.5'/2.5'
	14						
	15						T=1530 R=2.5'/2.5
	16	Sand darkens to reddish-brown	FS=ND				
	17				CA504-SB06-020		HS= ND (5-ft interval)
	18		FS=ND				T=1536 R=2.5'/2.5'
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB06

HTRW DRILLING LOG

HOLE NO. CA504-SB06

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer [illegible]

SHEET 4 OF SHEETS 4

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same As Above Sandy SILT (ML) - Soft, dry, white with reddish-brown sand mottling, Slight plasticity, fine Sand, Calcareous					
	21		FS=ND			PP=1.0	T=1540 R=2.5'/2.5'
	22				CA504-SB06-025		
							HS- ND (5-ft interval)
	23		FS=ND			PP=1.0	T=1545 R=2.5'/2.5
	24						
	25	Bottom of Boring @ 25 ft bgs					END TIME =1545
	26						
	27						
	28						
	29						
	30						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB06

HTRW DRILLING LOG

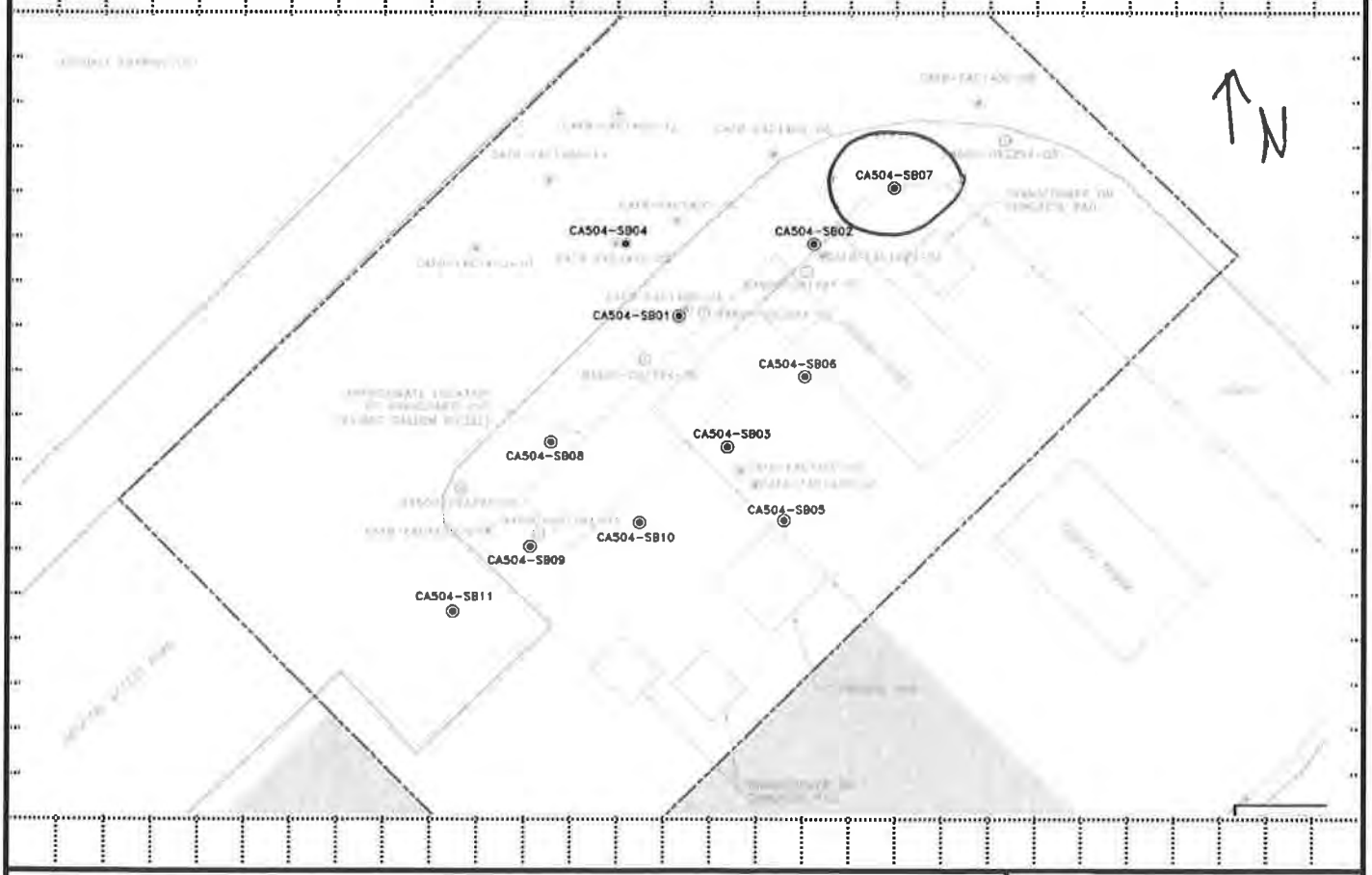
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA504-SB07
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA504-SB07, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Samplers with a 1 5/8" diameter sample liner		8. HOLE LOCATION: 1238841.794 N 844734.062 E
		9. SURFACE ELEVATION: 4311.2 ft above msl
		10. DATE STARTED: 2-12-13 @ 0810
		11. DATE COMPLETED: 2-12-13 @ 0903
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 25.0 feet (ft) belowground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A
18. GEOTECHNICAL SAMPLES: Ø	DISTURBED: —	UNDISTURBED: —
19. TOTAL NUMBER OF CORE BOXES: N/A		

20. SAMPLES FOR CHEMICAL ANALYSIS: 5	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY: N/A %
	BTEX + Naphthalene	—	Site Specific SVOCs	TPH-ORO/DRO		

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB07

NG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA504-SB07

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Sandy SILT (ML) - medium stiff, dry, pale tan with reddish-brown sand, slight plasticity, calcareous (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen PP=1.5	START TIME = 0810 Time (T) Recovery (R) T= 0815 R= 4.0'/5.0'
	1				CA504-SB07-005		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	2		FS=ND HS=ND				BTEX collected from the bottom of the sample interval
	3						
	4					PP=1.5	
	5						
	6	SILT (ML-CL) - Stiff, dry, brown, medium plasticity, trace very fine sand (FILL)					T= 0824 R= 5.0'/5.0'
	7		FS=ND HS=ND		CA504-SB07-010	PP=3.5	
	8						
	9						
	10						

HTRW DRILLING LOG

HOLE NO. CA504-SB07

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 3 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	Same As Above					
		SILT (ML-CL) - Stiff, dry, brown, medium plasticity, trace very fine sand (FILL)				PP=3.5	
	11		FS=ND		CA504-SB07-015		T=0834 R=5.0'/5.0'
		Sharp Contact, Native @ 11.8 ft bgs					
	12	SILT (ML) - Medium Stiff, dry, pale tan, Slight Plasticity, Calcareous (Native)	HS=ND			PP=1.5	
	13						
	14					PP=1.5	
	15	Some very fine sand					
	16		FS=ND				T=0840 R=2.5'/2.5'
	17				CA504-SB07-020		HS=ND (5ft interval)
	18		FS=ND				T=0850 R=2.5'/2.5'
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB07

HTRW DRILLING LOG

HOLE NO. CA504-SB07

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 4 OF 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	SILT (ML) - Medium Stiff, dry, pale tan, slight plasticity, calcareous, some fine sand				PP=2.0	T=0855 R=2.5'/2.5
	21		FS=ND				
		Increasing reddish-brown fine sand			CA504-SB07-025		
	22						HS=ND (5-ft interval)
	23	Becomes a Sandy SILT (ML)				PP=1.5	T=0903 R=2.5'/2.5'
			FS=ND				
	24						
	25	Bottom of Boring @ 25.0 ft bgs					END TIME 0903
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB07

HTRW DRILLING LOG

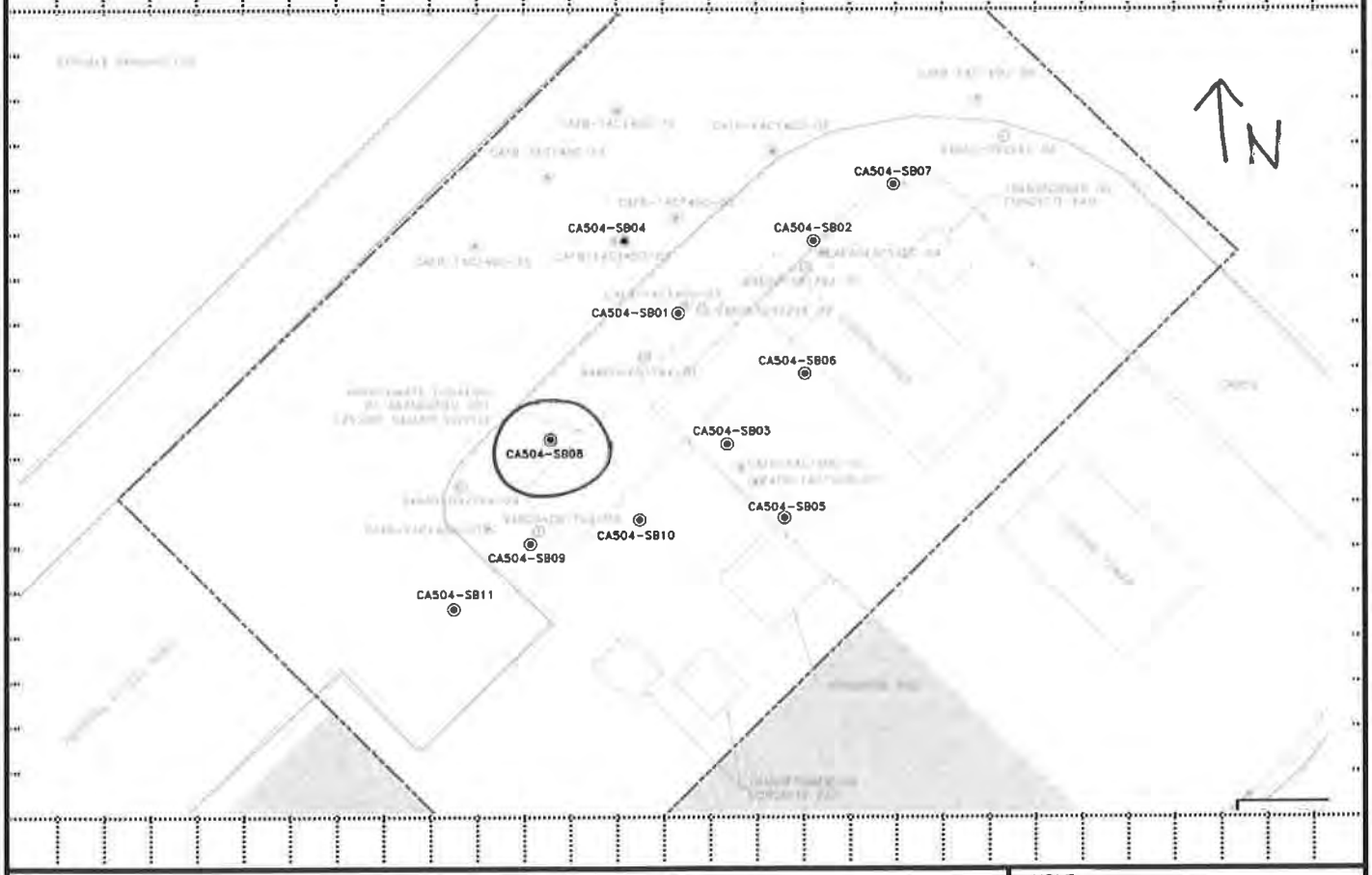
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA504-SB08
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA504-SB08, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler with a 1 5/8" diameter Sample liner		8. HOLE LOCATION: 1238813.282 N 844699.084 E
		9. SURFACE ELEVATION: 4312.7 ft above msl
		10. DATE STARTED: 2-10-13 1643 / 11. DATE COMPLETED:
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 25 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A
18. GEOTECHNICAL SAMPLES: Ø	DISTURBED: — / UNDISTURBED: —	19. TOTAL NUMBER OF CORE BOXES: N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 + MS/MSD	BTEX + Naphthalene —		Site Specific SVOCs	TPH-ORO/DRO —		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer Miller

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB08

HTRW DRILLING LOG

HOLE NO. CA504-SB08

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	Silty SAND (SM) - loose, dry, brown, fine grain, some gravel 0-0.5' bgs (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND FS=ND			PP=Pocket Pen	START TIME = 1643 Time (T) Recovery (R) T=1650 R=5.0'/5.0'
	1				CA504-SB08-005		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	2		HS=ND				BTEX Collected from the bottom of the sample interval
	3						
	4	SAND(SP) - loose, moist, orangish-brown, fine grain, FILL					
	5	Moderate musty odor					
	6						T=1659 R=5.0'/5.0'
	7		FS=ND HS=ND		CA504-SB08-010 Extra volume for MS/MSD		
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB08

HTRW DRILLING LOG

HOLE NO. CA504-SB08

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR

SHEET 3 OF 4 SHEETS

ELEV a	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	SAME AS ABOVE SAND(SP) - Medium dense, moist, orangish brown, fine grain, Slight musty odor (FILL)					T=1710 R=5.0'/5.0'
	11		FS=ND HS=ND				
		Odor decreases			CA504-SB08-015		
	12						
	13						
	14	CONCRETE					
		Native Surface @ 15.0 ft bgs					
	15	SILT(ML) - Medium Stiff, dry, tannish-white, slight plasticity, Some fine caliche nodules, Calcareous (Native)				PP=2.0	
	16		FS=ND				
					CA504-SB08-020		T=1719 R=2.5'/2.5'
	17						HS=ND (5-feet interval)
		Some brownish-red silty sand mottling					
	18		FS=ND			PP=1.5	T=1722 R=2.5'/2.5'
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB08

HTRW DRILLING LOG

HOLE NO. CA504-SB08

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer L Allen

SHEET 4 OF SHEETS 4

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same As Above SILT (ML)-Medium Stiff, dry, white with brownish-red silty sand mottling, slight plasticity, calcareous	FS=ND		CA504-SB08-025	PP=2.0	T=1729 R=2.5'/2.5'
	21						
	22	Increased silty sand mottling					HS=ND (5-ft interval)
	23	SAND (SP)-Medium dense, moist, pale orangish-brown, fine grain, trace silt	FS=ND				T=1736 R=2.5'/2.5'
	24						
	25	Bottom of Boring @ 25.0 ft bgs					END TIME =1736
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB08

HTRW DRILLING LOG

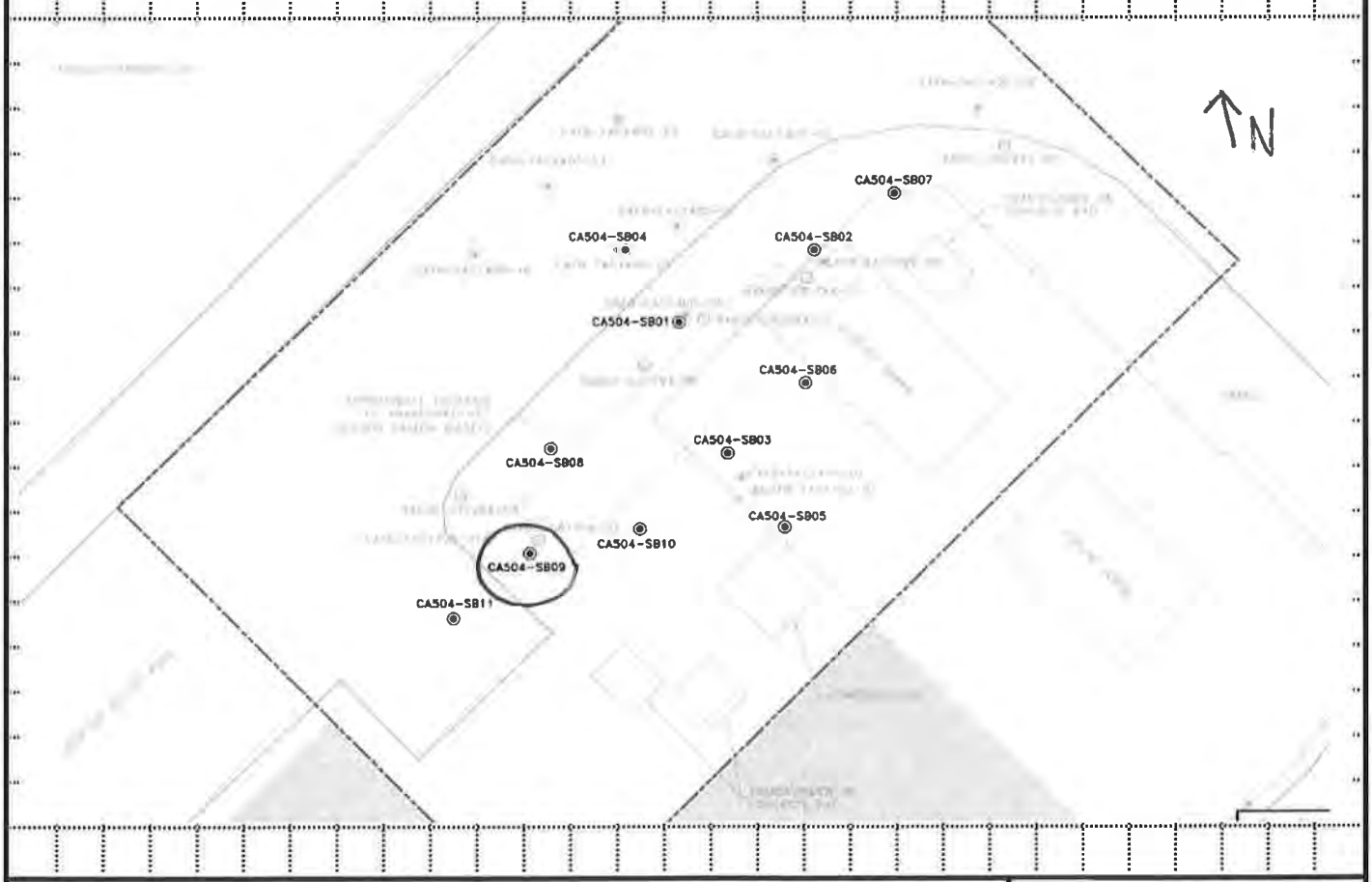
DISTRICT: AFRCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA504-SB09
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA504-SB09, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kolvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Marro Core Sampler with a 1 5/8" ø diameter sample liner		8. HOLE LOCATION: 1238803.011N 844699.85E
		9. SURFACE ELEVATION: 4314.0 ft above msl
		10. DATE STARTED: 2-11-13 @ 1438 / 11. DATE COMPLETED: 2-11-13 @ 1600
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 25 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A
18. GEOTECHNICAL SAMPLES: Ø	DISTURBED:	UNDISTURBED: 19. TOTAL NUMBER OF CORE BOXES: N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5+MS/MSD	BTEX + Napthalene	—	Site Specific SVOCs	TPH-DRO/ORO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer Miller

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB09

HTRW DRILLING LOG

HOLE NO. CA504-SB09

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer K Allen

SHEET 2 OF 4 SHEETS

ELEV a	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND (SM) - Medium dense moist, brown, very fine grain, trace fine gravel (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1438
	1						Time (T) Recovery (R) T= 1452 R= 5.0'/5.0'
	2				CA504-SB09-005		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3		FS=ND HS=ND				BTEX Collected from the bottom of the sample interval
	4						
	5						
	6				CA504-SB09-010 with extra Volume for MS/MSD		T= 1500 R= 5.0'/5.0'
	7		FS=ND HS=ND				
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB09

HTRW DRILLING LOG

HOLE NO. CA504-SB09

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h.
	10	Same As Above Silty SAND (SM) - loose, dry, brown, very fine grain (FILL) Native @ 11.0ft bgs					
	11	SILT (ML) - Medium Stiff, dry, pale tannish-white, Slight plasticity, Calcareous				PP=2.0	
	12		FS=ND HS=ND		CA504-SB09-015		T=1524 R=5.0'/5.0'
	13						
	14					PP=2.0	
	15						
	16	Some SAND, darkens to orangish-tan	FS=ND		CA504-SB09-020	PP=1.5	T=1532 R=2.5'/2.5'
	17						HS=ND (5-ft interval)
	18	Becomes Sandy SILT (ML)	FS=ND			PP=1.5	T=1540 R=2.5'/2.5'
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB09

HTRW DRILLING LOG

HOLE NO. CA504-SB09

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same As Above Sandy SILT (ML) - Medium Stiff, dry, Orangish-tan with brownish-red sand mottling, Slight plasticity, Calcareous, fine sand				PP=1.5	T=1548 R=2.5'/2.5'
	21		FS=ND		CA504-SB09-025		
	22						HS=ND (5-ft interval)
	23		FS=ND				T=1600 R=2.5'/2.5'
	24						
	25	Bottom of Boring @ 25.0 ft bgs					END TIME =1600
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB09

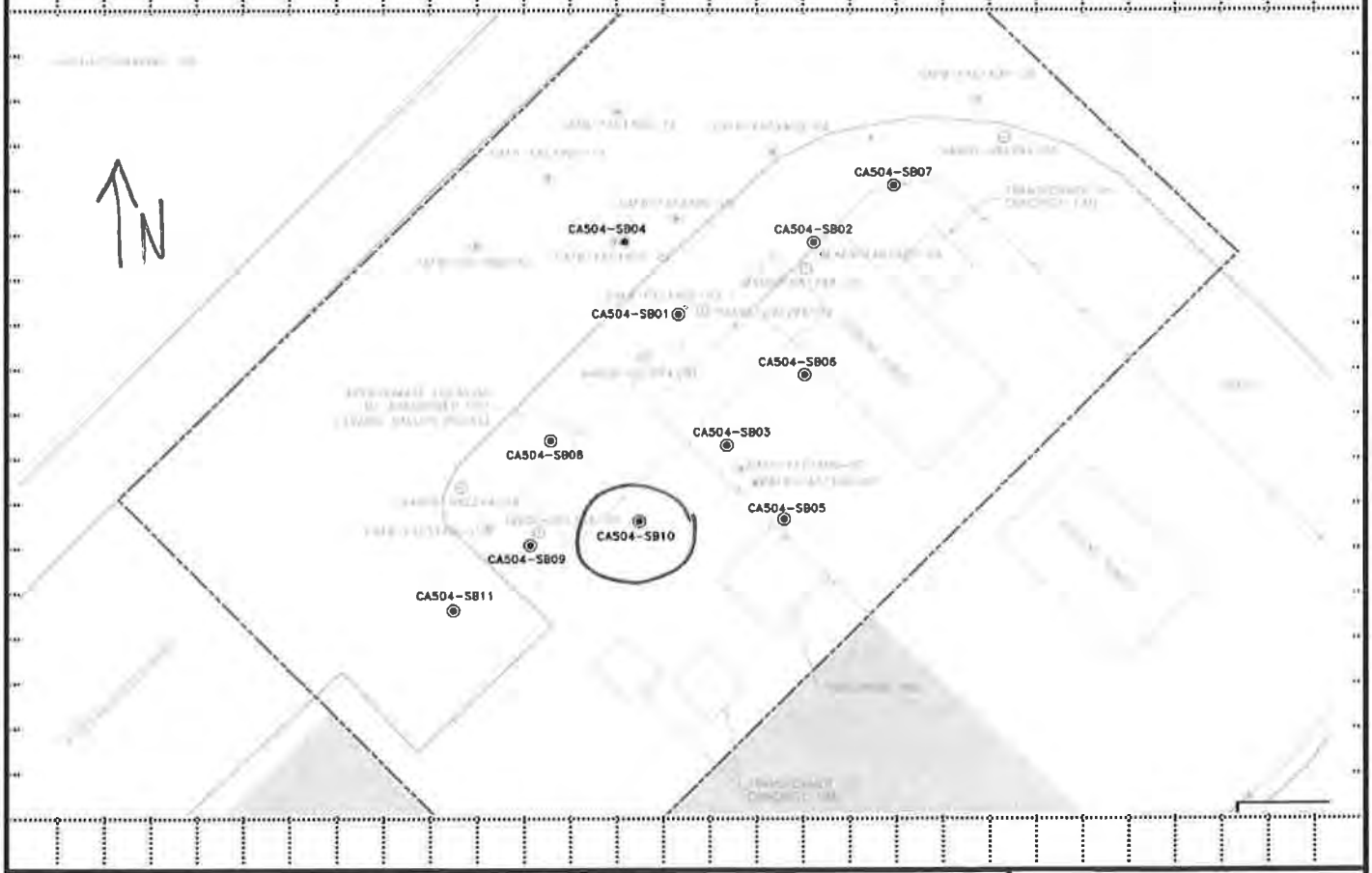
HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO 0169	HOLE NUMBER: CA504-SB10	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 7 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA502-SB10, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" diameter Sample liner	8. HOLE LOCATION: 1238805.257 N 844711.581	
	9. SURFACE ELEVATION: 4314.1 ft above MSL	
	10. DATE STARTED: 2-11-13@1009	11. DATE COMPLETED: 2-11-13@1421
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: Refusal @ N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 52.25 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	
18. GEOTECHNICAL SAMPLES: DISTURBED — UNDISTURBED —	19. TOTAL NUMBER OF CORE BOXES: N/A	

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
(11) + MS/MSD	BTEX + Naphthalene	—	Site Specific SVOCs	TPH-DRO/ORO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	Jennifer Allen

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB10

HTRW DRILLING LOG

HOLE NO. CA504-SB10

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer Allen

SHEET 2 OF 7 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND (SM) - Medium Dense, dry, reddish-brown, very fine to fine grain	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		CA504-SB10-005	PP=Pocket Pen	START TIME = 1009 Time (T) Recovery (R) T=1015 R= 5.0'/5.0' Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO BTEX collected from the bottom of the sample interval
	1						
	2		FS=ND HS=3.2 ppm				
	3						
	4						
	5						
	6						T= 1030 R= 5.0'/5.0'
	7		FS=ND HS=2.4 ppm		CA504-SB10-010 Extra Volume for MS/MSD		
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB10

HTRW DRILLING LOG

HOLE NO. CA504-SB10

PROJECT: e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	Same As Above Silty SAND (SM) - Dense, dry to moist, reddish-brown, very fine to fine grain (FILL)					
	11						T=1044 R=5.0'/5.0'
	12		FS=ND HS=1.7ppm			CA504-SB10-015	
	13						
	14						
	15						T=1050 R=2.5'/2.5'
	16	Native Surface @ 16.0 ft bgs SILT (ML) - Medium Stiff, dry, pale orangish-white with a high white caliche content, slight plasticity, trace sand (calcareous)	FS=ND			PP=2.0	
	17				CA504-SB10-020		
	18						T=1058 R=2.5'/2.5'
	19	Increased reddish-brown Sand (Becomes Sandy)	FS=ND HS=7.1ppm				
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB10

HTRW DRILLING LOG

HOLE NO. CA504-SB10

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 4 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	20	Same as Above					
		Sandy SILT (ML) - Medium Stiff, dry pale orangish-tan with reddish-brown sand, Slight plasticity, fine sand, Calcareous, moderate (sweet) Chemical odor	FS=ND			FP=15	T=1100 R=2.5'/2.5'
	21				CA504-SB10-025		
	22		FS=ND				
							HS=76.0ppm (5-feet interval)
	23		FS=53.2 ppm				T=1118 R=2.5'/2.5'
	24	Increasing Sand content	FS=65.7 ppm				
	25	~~Bottom of Boring @ 25.0 ft BGS~~					
		Silty SAND (SM) - loose, dry, pale orange with whitish calcareous silt mottling, fine grain, Some caliche (fine to coarse), Strong Sweet chemical odor	FS=135.6 ppm				T=1134 R=2.5'/2.5'
	26				CA504-SB10-030		
	27		FS=148.4 ppm				
							HS=141.8ppm (5-feet interval)
	28	Odor transitioning to a hydro carbon odor	FS=118.3 ppm				T=1141 R 2.5'/2.5'
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB10

HTRW DRILLING LOG

HOLE NO. CA504-SB10

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 5 OF 7 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	30	Same As Above Silty SAND (SM) - loose, dry, pale orange with whitish calcareous silt mottling, fine grain, some fine calic nodules, moderate hydrocarbon odor	FS=51.0 ppm				T=1150 R=2.5'/2.5'
	31						
			FS=68.9 ppm		CA504-SB10-035		
	32						HS=76.8 ppm (5-ft interval)
	33	SAND (SP) - loose, moist, pale orange-tan, very fine grain, slight hydrocarbon odor	FS=55.6 ppm				T=1201 R=2.5'/2.5'
	34		FS=42.7 ppm				
	35		FS=36.0 ppm				T=1245 R=2.5'/2.5
	36						
			FS=40.3 ppm		CA504-SB10-040		
	37						HS=44.8 ppm (5 ft interval)
			FS=37.6 ppm				
	38						T=1306 R=2.5'/2.5'
	39		FS=28.5 ppm				
	40						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB10

HTRW DRILLING LOG

HOLE NO. CA504-SB10

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 6 OF 7 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	40	Same As Above					
		SAND (SP) - loose, dry, pale orangish-tan, very fine grain, trace fine caliche nodules, trace hydro carbon odor	FS=32.4 ppm				T=1305 R=2.5'/2.5'
	41						
			FS=35.3 ppm		CA504-SB10-045		
	42						HS=~~132~~ 65.8 ppm
	43		FS=68.1 ppm				T=1321 R=2.5'/2.5'
		Increased caliche, Some Calcareous SILT					
	44		FS=46.7 ppm				
	45		FS=56.8 ppm				T=1334 R=2.5'/2.5'
	46						
		Hydro Carbon odor increases, becomes Moderate	FS=63.0 ppm		CA504-SB10-050		
	47						HS=89.7 ppm
	48		FS=137.6 ppm				T=1351 R=2.5'/2.5'
		Increased Calcareous SILT					
	49	Silty SAND (SM) - loose, dry, pale orangish tan with white calcareous silt mottling, fine sand, moderate hydrocarbon odor	FS=162.8 ppm				
	50						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504 - SB10

HTRW DRILLING LOG

HOLE NO. CA504-SB10

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer [illegible]

SHEET 7 OF 7 SHEETS

ELEV a	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h.
	50	Same As Above Silty SAND (SM) - loose, dry, pale orangish-tan with white calcareous silt mottling, fine sand, moderate hydro carbon odor	FS= 107.6ppm HS= 79.8 ppm		CA504-SB10-052		T=1421 R=2.0'/2.0'
	51						
	52	Refusal @ 52.0 ft bgs					END TIME = 1421
	53						
	54						
	55						
	56						
	57						
	58						
	59						
	60						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB10

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA504-SB11	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA504-SB11, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" Sample liner	8. HOLE LOCATION: 1238797.337N 844694.035E	
	9. SURFACE ELEVATION: 4314.1 ft above msl	
	10. DATE STARTED: 2-8-13 @1403	11. DATE COMPLETED: 2-8-13 @1531
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 25 feet below ground surface (ft bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

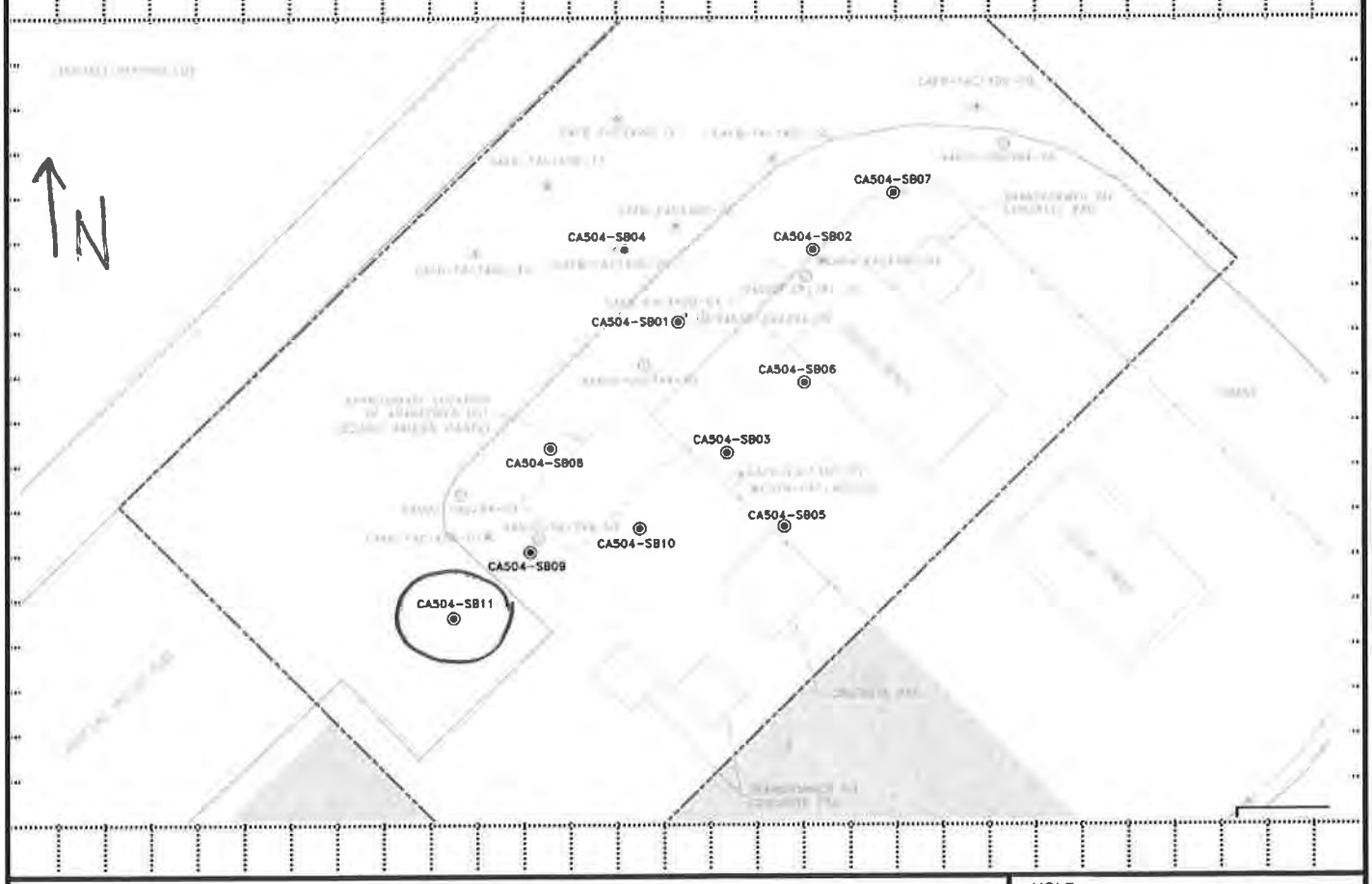
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 + 2 MS/MSD	BTEX + Naphthalene	Lead	Site Specific SVOCs	TPH-GRO, DRO, DRO		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite pellets	—	—	Jennifer Allen

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB11

HTRW DRILLING LOG

HOLE NO. CA504-SB11

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer [illegible]

SHEET 2 OF SHEETS 4

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	ASPALT and GRAVEL	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect			PP=Pocket Pen	START TIME = 1403 Time (T) Recovery (R)
		Silty SAND (SM) - Medium dense, moist, brown, fine grain (FILL)	BKG=ND				
	1	SILT (ML) - moist, stiff, pale tan, low plasticity, Calcareous, (FILL)			CA504-SB11-005	PP=3.0	T=1415 R=4.6'/5.0' Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	2	Sharp Color/material change @ 2.0 ft bgs Clayey SILT (ML) - Stiff, moist, dark brown, low plasticity, some fine sand (FILL)	FS=ND HS=ND		TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=4.0	
	3						
	4						
	5	Native Surface @ 5.5 ft bgs					
		Sandy SILT (ML) - Medium stiff, moist, pale orangish-tan with soft calicite-white mottling, slight plasticity, very fine sand					T=1427 R=5.0'/5.0'
	6					PP=1.5	
	7		FS=ND HS=ND		CA504-SB11-010 extra volume collected for MS/MSD	PP=1.5	
	8				TPH-GRO, BTEX Collected from the bottom of the sample interval		
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB11

HTRW DRILLING LOG

HOLE NO. CA504-SB11

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 3 OF 4 SHEETS

ELEV a	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	SILT (ML) - medium stiff, dry, pale tannish-white, slight plasticity, calcareous with some caliche nodules	FS=ND				
	11					PP=15	T=1448 R=2.5'/2.5'
	12				CA504-SB11-015		
		Some very fine sand					HS=ND (5-foot interval)
	13		FS=ND			PP=1.5	T=1500 R=2.5'/2.5
	14						
	15						
	16		FS=ND		CA504-SB11-020		T=1509 R=2.5'/2.5'
	17						
							HS=ND (5 foot interval)
	18						T=1517 R=2.5'/2.5'
		Some reddish-brown silty sand mottling	FS=ND				
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB11

HTRW DRILLING LOG

HOLE NO. CA504-SB11

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer A Allen

SHEET 4 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
	20	SAME AS ABOVE SILT (ML) - Medium stiff, dry, pale tannish-white, slight plasticity, some reddish-brown silty sand mottling	FS=ND		CA504-SB11-025 Extra volume for MS/MSD	PP=1.5	T=1520 R=2.5'/2.5'
	21						
	22						HS=ND (5-foot interval)
	23	Becomes a Sandy SILT (ML), darkens to pale orange, fine sand	FS=ND			PP=2.0	T=1531 R=2.5'/2.5'
	24						
	25	Bottom of Boring @ 25 ft bgs					END TIME = 1531
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB11

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HTRW DRILLING LOG

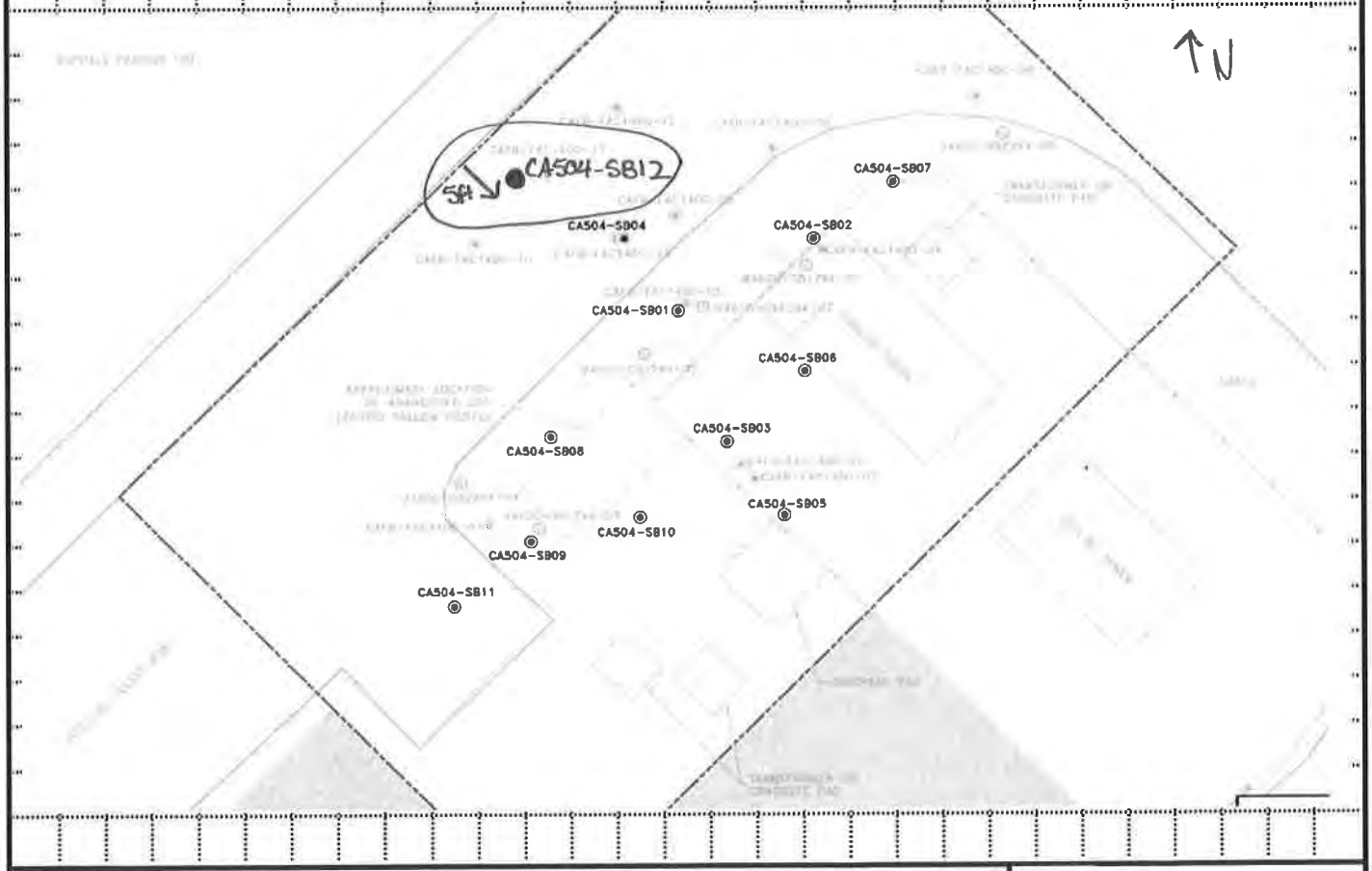
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA504-SB12
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 5
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA504-SB12, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" diameter sample liner		8. HOLE LOCATION: 1238843.613 N 844698.81 E
		9. SURFACE ELEVATION: 4310.0 ft above msl
		10. DATE STARTED: 2-14-13 @ 1540 / 11. DATE COMPLETED: 2-14
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater Not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 40 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø			N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	BTEX + Napthalene		Site Specific SVOCs,	TPH-GRO/DRO		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets			Jennifer L Allen

LOCATION SKETCH/COMMENTS — SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB12

HTRW DRILLING LOG

Hole Number CA504-SB12

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 2 OF 5 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	Blow Counts g.	REMARKS h
		Silty CLAY with GRAVEL (CL-GP) moist, stiff, dark brown, medium plasticity					Sampling begins at 10 ft bgs.
	1						
	2	CLAY (CL) - stiff, moist, dark brown, medium plastic					
	3						
	4	SILT (ML) - medium stiff, dry, orangeish-white, with caliche nodules					
	5						
	6						
	7						
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE NO: CA504-SB12

HTRW DRILLING LOG

HOLE NO. CA504-SB12

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer [illegible]

SHEET 3 OF 5 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
*	10	Silty SAND (SM) - Medium dense, dry, reddish-brown with white calcareous silt, very fine to fine sand	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1540 Time (T) Recovery (R)
	11						T= 1556 R= 5.0'/5.0'
					CA504-SB12-015		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, ~~TPH-GRO, PCBs, and Lead~~ N/A
	12		FS=ND HS=ND				BTEX collected from the bottom of the sample interval
	13						* See CA504-SB04 Boring Log for 0-10 ft bgs Lithology
	14						
	15	Increased calcareous silt and hard caliche					
							T= 1600 R= 2.5'/2.5'
	16		FS=ND				
					CA504-SB12-020		
	17						HS= ND (5 foot interval)
	18		FS= ND				T=1608 R=2.5'/2.5'
	19						
	20						

HS = Head Space Screening
FS=Field Screening
BKG = Background
PPM=Parts Per Million
ND=Non Detect

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB12

HTRW DRILLING LOG

HOLE NO. CA504-SB12

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 4 OF 5 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	SAME AS ABOVE Silty SAND (SM) - Medium dense, moist, reddish-brown with white calcareous silt and caliche mottling, fine grain	FS=ND		CA504-SB12-025		T=1612 R=2.5'/2.5
	21						
	22						HS=ND (5-ft interval)
	23	Decreasing Silt and Caliche content	FS=ND				T=1616 R=2.5'/2.5'
	24						
	25	SAND (SP) - Medium dense, moist, tan, fine grain, some silt and trace fine caliche nodules					
	26		FS=ND		CA504-SB12-030		T=1619 R=2.5'/2.5'
	27						HS=ND (5-foot interval)
	28		FS=ND				T=1625 R=2.5'/2.5
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB12

HTRW DRILLING LOG

HOLE NO. CA504-SB12

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 5 OF 5 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	30	Same As Above SAND (SP) - medium dense, moist, tan, fine grain, trace fine caliche nodules					
	31		FS=ND				T=1630 R=2.5'/2.5'
					CA504-SB12-035		
	32						HS=ND (5-foot interval)
	33		FS=ND				T=1638 R=2.5'/2.5
	34						
	35						
	36		FS=ND				T=1643 R=2.5'/2.5'
					CA504-SB12-040		
	37						HS=ND (5-foot interval)
	38		FS=ND				T=1650 R=2.5'/2.5'
	39						END TIME = 1650
	40	Bottom of Boring @ 40 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB12

HTRW DRILLING LOG

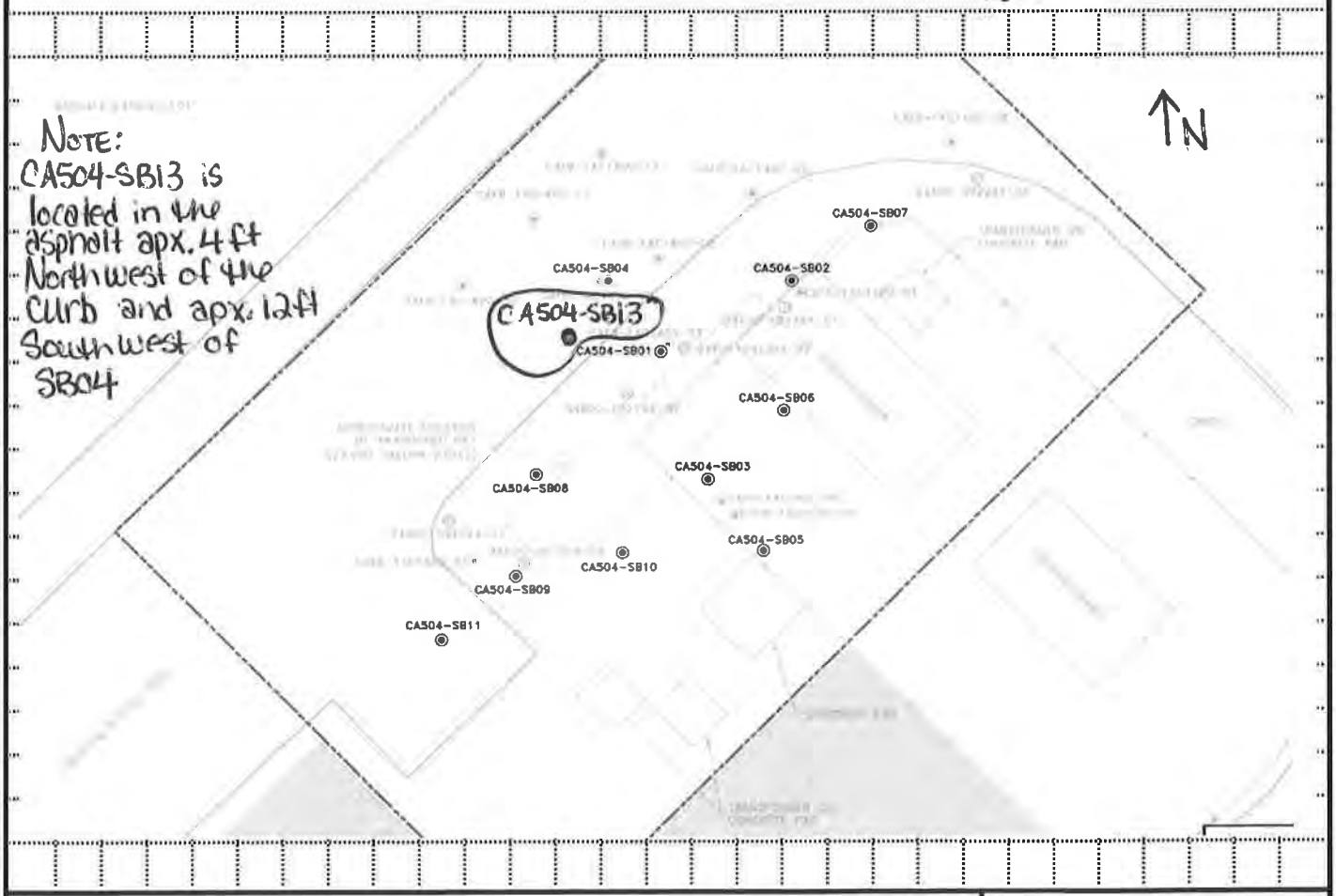
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA504-SB13
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 5
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA504-SB13, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" diameter sample liner		8. HOLE LOCATION: 1238843.269 N 894711.173 E
		9. SURFACE ELEVATION: 4311.5 ft avg'd msl
		10. DATE STARTED: 2-14-13 @ 0950 / 11. DATE COMPLETED: 2-14-13 @ 1125
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 40 feet (ft) belowground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
7	BTEX + Naphthalene	—	Site Specific SVOCs	TPH-ORO/DRO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS — SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB13

HTRW DRILLING LOG

Hole CA504-SB13

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 2 OF 5 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO	Blow Counts g	REMARKS h
		Silty CLAY with GRAVEL (CL-GP) moist, stiff, dark brown, med. plasticity					Sampling begins at 10 ft bgs.
	1						
	2	CLAY (CL) - stiff, moist, dark brown, med. plasticity					
	3						
	4						
		SILT (ML) - medium stiff, dry, pale-orange to white, low plasticity,					
	5						
	6						
	7						
	8						
	9						
	10						

HTRW DRILLING LOG

HOLE NO. CA504-SB13

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer Keller

SHEET 3 OF 5

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Silty SAND (SM) - medium dense, dry, orangish brown with white caliche mottling, fine sand, silt is calcareous	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 0950
	11						Time (T) Recovery (R) T=1014 R=5.0'/5.0'
	12		FS=ND		CA504-SB13-015		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, ~~TPH-GRO, PCBs~~ and ~~Lead~~
	13		HS=ND				BTEX collected from the bottom of the sample interval
	14						NOTE: See CA504-SB04 Boring Log for 1-10 ft bgs Lithology
	15						
	16		FS=ND		CA504-SB13-020 and duplicate		T=1019 R=2.5'/2.5'
	17						
	18	Increased calcareous silt and caliche, lightens to pale orangish-tan	FS=ND		CA504-SB513-020 @ false time 0700		HS=ND (5-foot interval) T=1025 R=2.5'/2.5'
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB13

HTRW DRILLING LOG

HOLE NO. CA504-SB13

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Hall

SHEET 4 OF 5

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same As Above Silty SAND (SM) - medium dense, dry, pale orangish-tan with white calcareous silt mottling, fine grain, some fine caliche					
	21		FS=ND				T=1035 R=2.5'/2.5'
	22				CA504-SB13-025		HS=ND (5-foot interval)
	23						T=1045 R=2.5'/2.5'
	24	Decreased calcareous silt and caliche,	FS=ND				
	25	SAND (SP) - loose, moist, tan, very fine to fine grain					
	26		FS=ND				T=1051 R=2.5'/2.5'
	27				CA504-SB13-030		HS=ND (5-foot interval)
	28		FS=ND				T=1100 R=2.5'/2.5'
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB13

HTRW DRILLING LOG

HOLE NO. CA504-SB13

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 5 OF 5

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	30	Same As Above SAND (SP) - loose, moist, tan, very fine to fine grain, trace silt, trace fine caliche nodules	FS=ND		CA504-SB13-035		T=1105 R=2.5'/2.5'
	31						
	32						HS=ND (5-foot interval)
	33		FS=ND				T=1111 R=2.5'/2.5'
	34						
	35		FS=ND		CA504-SB13-040		T=1118 R=2.5'/2.5'
	36						
	37						HS=ND (5-foot interval)
	38		FS=ND				T=1125 R=2.5'/2.5'
	39						
	40	Bottom of Boring @ 40 ft bgs					END TIME=1125

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB13

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA504-SB14	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 8
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA504-SB14, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" diameter sample liner	8. HOLE LOCATION: 1238843.185 N 844720.746 E	
	9. SURFACE ELEVATION: 4310.1 ft above MSL	
	10. DATE STARTED: 2-14-13 @ 1220	11. DATE COMPLETED: 2-14-13 @ 1443
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 47 feet (ft) below ground Surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

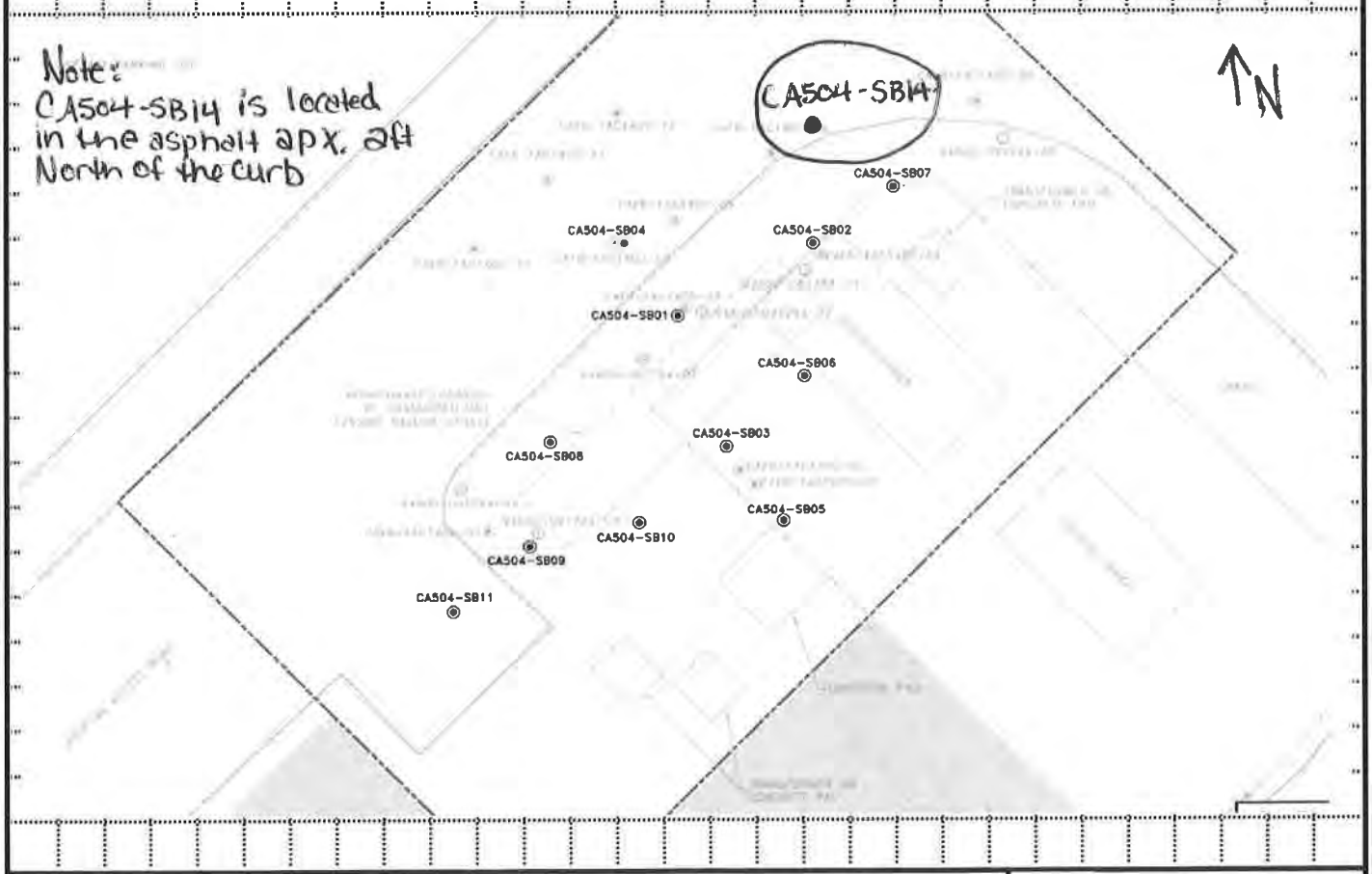
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
9	BTEX + Naphthalene	—	Site Specific SVOCs	TPH-ORO/DRO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer Allen

LOCATION SKETCH/COMMENTS — SCALE: NOT TO SCALE

Note:
CA504-SB14 is located in the asphalt apx. 2ft North of the curb



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB14

HTRW DRILLING LOG

Hole CA504-SB14

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 2 OF 6 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO	Blow Counts g	REMARKS h
		Sandy SILT (ML) - medium stiff, dry, pale tan, with sand (FILL)					Sampling begins at 10ft bgs.
	1						
	2						
	3						
	4						
	5						
	6	SILT (ML-CL) - Stiff, dry, brown, medium plasticity					
	7						
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE NO. CA504-SB14

HTRW DRILLING LOG

HOLE NO. CA504-SB14

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 3 OF 5 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h.
	10	Silty SAND (SM) - loose, dry, pale tannish-white, fine grain, silt is calcareous	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1220 Time (T) Recovery (R) T=1240 R=2.5'/2.5
	11		FS=ND				
	12		HS=ND (CA504 interval)		CA504-SB14-015		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, ~~TPH-GRO, PCBs, and Lead~~ BTEX Collected from the bottom of the sample interval
	13						See boring log of CA504-SB03 for 0-10 ft bgs Lithology
	14		FS=ND				T=1245 R=2.5'/2.5'
	15	Sand becomes brownish-red					
	16		FS=ND		CA504-SB14-020 and duplicate CA504-SB514-020 @ false time 0730		T=1251 R=2.5'/2.5'
	17						
	18		FS=ND				T=1257 R=2.5'/2.5'
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB14

HTRW DRILLING LOG

HOLE NO. CA504-SB14

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer L Allen

SHEET 4 OF 6

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same As Above Silty SAND (SM) - medium dense, dry, reddish-brown with calcareous silt mottling, fine sand					
	21		FS=ND				T=1302 R=2.5'/2.5'
	22				CA504-SB14-025		HS= ND (5-foot interval)
	23		FS=ND				T=1310 R=2.5'/2.5'
	24						
	25	Decreased silt ↓					
	26	SAND (SP) - loose, dry, tan, very fine to fine grain, trace calcareous silt, trace sweet chemical oder	FS=15.0ppm				T=1315 R=2.5'/2.5'
	27				CA504-SB14-030		HS=7.5ppm (5-foot interval)
	28		FS=22.2ppm				T=1320 R=2.5'/2.5'
	29	Some fine caliche nodules, odor becomes moderate	FS=36.0ppm				
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB14

HTRW DRILLING LOG

HOLE NO. CA504-SB14

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer K. Allen

SHEET 5 OF 5 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	30	Same As Above SAND (SP) - loose, dry, tan, very fine to fine grain, some caliche nodules, moderate chemical odor	FS=23.8 ppm				T=1352 R=2.5'/2.5'
	31						
	32		FS=28.0 ppm		CA504-SB14-035		
							HS=69.9 ppm (5-foot interval)
	33		FS=34.0 ppm				T=1357 R=2.5'/2.5'
	34		FS=52.3 ppm				
	35		FS=38.1 ppm				
	36		FS=43.0 ppm		CA504-SB14-040		T=1344 R=2.5'/2.5'
	37						HS=89.9 ppm (5-ft interval)
	38		FS=32.0 ppm				T=1350 R=2.5'/2.5'
	39		FS=45.5 ppm				
	40						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB14

HTRW DRILLING LOG

HOLE NO. CA504-SB14

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Miller

SHEET 5 OF 5 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	40	Same As Above					
		SAND (SP) - loose, moist, tan, fine grain, strong hydro carbon odor, trace fine caliche nodules	FS=52.0ppm				T=1411 R=2.5'/2.5'
	41						
	42		FS=61.8ppm		CA504-SB14-045		HS=133.6ppm (5-foot interval)
	43		FS=89.5ppm				T=1420 R=2.5'/2.5'
	44		FS=133.6ppm				
	45	Increased caliche nodules					
	46		FS=101.9ppm		CA504-SB14-047		T=1433 R=2.0'/2.0' HS=129.4ppm (5 foot interval)
	47	Refusal @ 47.0 ft bgs					END TIME = 1433
	48						
	49						
	50						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB14

HTRW DRILLING LOG

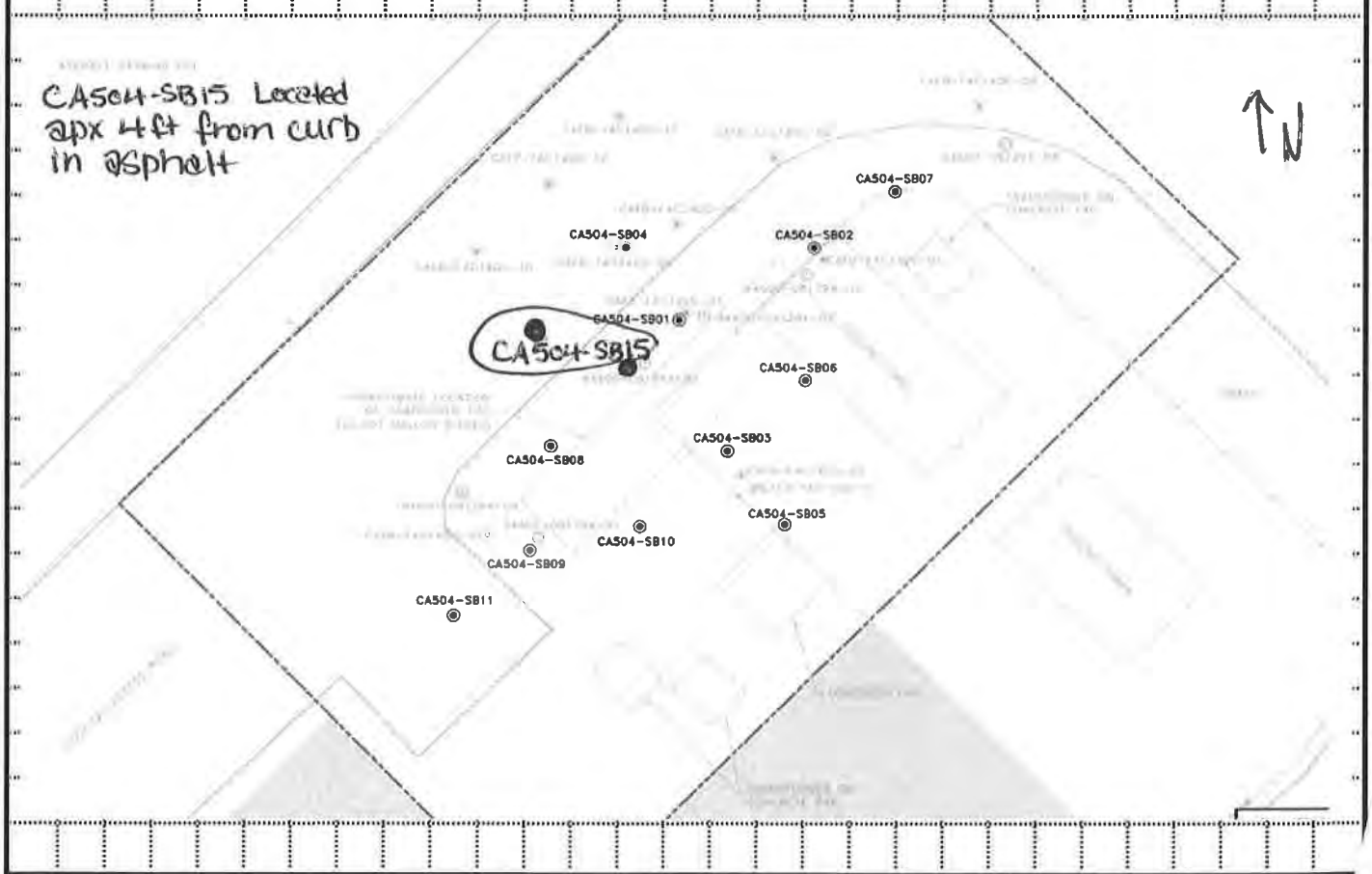
DISTRICT: AFCEC-FA8903-08-D-8183-TO-0169	HOLE NUMBER: CA504-SB15	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA504-SB15, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler with a 1 5/8" ∅ diameter Sample liner	8. HOLE LOCATION: 1238829.183N 844698.744E	
	9. SURFACE ELEVATION: 4311.9 ft above msl	
	10. DATE STARTED: 2-14-13 @ 1508	11. DATE COMPLETED: 2-14-13 @ 1533
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater Not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 24 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
∅	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 + MS/MSD	BTEX + Naphthalene	—	Site Specific SVOCs	TPH-GRO/DRO	—	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	Jennifer Allen

LOCATION SKETCH/COMMENTS — SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB15

HTRW DRILLING LOG

Hole CA504-SB15

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Allen

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	Blow Counts g.	REMARKS h.
		Silty SAND (SM) - loose, dry, reddish brown, fine grain					Sampling begins at 10 ft bgs
	1						
	2						
	3						
	4						
	5	SILT (ML) - soft, dry, light brown-white, very low plasticity					
	6						
	7						
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE NO. CA504-SB15

HTRW DRILLING LOG

HOLE NO. CA504-SB15

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer [illegible]

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
*	10	SILT (ML) - medium stiff, dry, pale orangish-white, slight plasticity, some very fine sand, calcareous	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen PP=2.0	START TIME = 1506 Time (T) Recovery (R) T=1508 R=5.0'/5.0'
	11		FS=ND				
					CA504-SB15-015		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO, BTEX collected from the bottom of the sample interval
	12		HS=ND				
	13						*See CA504-SB01 Boring Log for 1-10 ft bgs Lithology
	14					PP=1.5	
	15						
	16	Becomes Sandy SILT (ML) with orangish brown fine sand	FS=ND		CA504-SB15-020 with Extra volume collected for MS/MSD		
			HS=ND				T=1518 R=5.0'/5.0'
	17						
	18	Increasing sand, darkens to orangish-tan					
	19	SAND (SP) - medium dense, dry, tan, very fine to fine grain, some calcareous silt					
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB15

HTRW DRILLING LOG

HOLE NO. CA504-SB15

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jenn Sup Alle

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same As Above SAND (SP) - medium dense, dry, tan, very fine to fine grain, Some calcareous silt					T=1528 R=2.5'/2.5'
	21	Increasing Calcareous SILT and hard caliche	FS=ND		CA504-SB15-024		
	22	Silty SAND(SM) - Medium dense, dry, tan with white calcareous silt and hard caliche mottling, fine grain sand					HS=ND (4-foot interval)
	23		FS=ND				T=1533 R=1.5'/1.5'
	24	Refusal @ 24.0 ft bgs					END TIME = 1533
	25						
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB15

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA504-SB16
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 5
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: Jesse Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 6620DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch sample sleeve		8. HOLE LOCATION: 1238853.172 N 844720.955 E
		9. SURFACE ELEVATION: 4310.0 ft above msl
		10. DATE STARTED: 2-15-13 / 11. DATE COMPLETED: 2-15-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 40		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

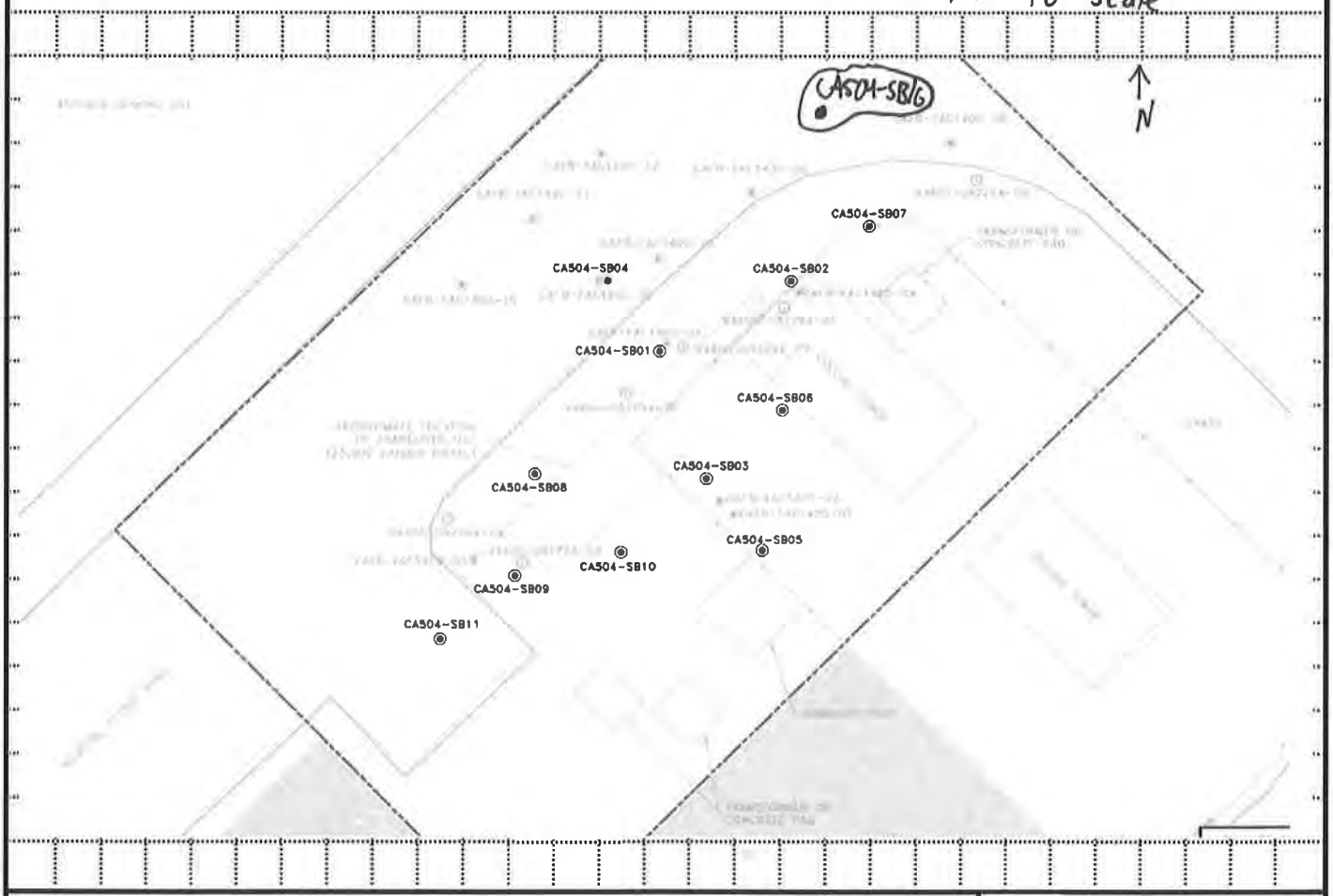
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
6 + 2MSD 3 dup	—	—	BTEX + napthalene	TPH-DRO, ORO	Site related svoc	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Conch

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA504-SB16

HTRW DRILLING LOG

HOLE NO. CA504-SB16

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conrad

SHEET 2 OF 5 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sand SILT (ML) - medium stiff, dry, pale tan with brown sand low plasticity	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect			PP=Pocket Pen	START TIME = 0852 Time (T) Recovery (R) Sampling begins at 10ft bgs. Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	1						
	2						
	3						
	4						
	5						
	6	SILT (ML-CL) stiff, dry, brown, medium plasticity					
	7						
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB16

HTRW DRILLING LOG

HOLE NO. CA504-SB16

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 5 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SILT (ML) - stiff, dry, light tan, low plastic, with calcareous nodules	HS=ND		CA504-SB16 -015 + MS/MSD	PP=2.0	T=0908 R=5.0/5.0
	11						
	12					PP=2.0	
	13						
	14					PP=2.0	
	15		HS=1.8		CA504-SB16 -020 + dup	PP=2.5	T=0924 R=5.0/5.0
	16						
	17					PP=2.0	
	18	1-foot seam SAND (SP) - loose, moist, light brown fine grained					
	19					PP=2.0	
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA504-SB16

HTRW DRILLING LOG

HOLE NO. CA504-SB16

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conrad

SHEET 4 OF 5 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAND(SP) - loose, dry, light brown, fine grained, with calcareous nodules and trace silt	HS=1.3		CA504-SB16-025 + dup		T=0930 R=5.0/5.0
	21						
	22						
		with increasing silt					
	23						
	24						
	25	with decreasing silt	HS=1.8		CA504-SB16-030 + dup		T=0945 R=5.0/5.0
	26						
	27	silt becomes absent					
	28						
	29						
	30						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB16

HTRW DRILLING LOG

HOLE NO. CA504-SB16

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conrad

SHEET 5 OF 5 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		same: SAND (SP) loose, dry, light brown, fine grained	HS=4.7		CA504-SB16 -035		T=1000 R=5.0/5.0
		Becomes light tan			+ MS/MSD		
	31						
	32						
	33						
	34						
	35		HS=3.2		CA504-SB16 -040		T=1015 R=5.0/5.0
	36						
	37						
	38						
	39						
	40	Bottom of Boring 40'					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA504-SB16

HTRW DRILLING LOG

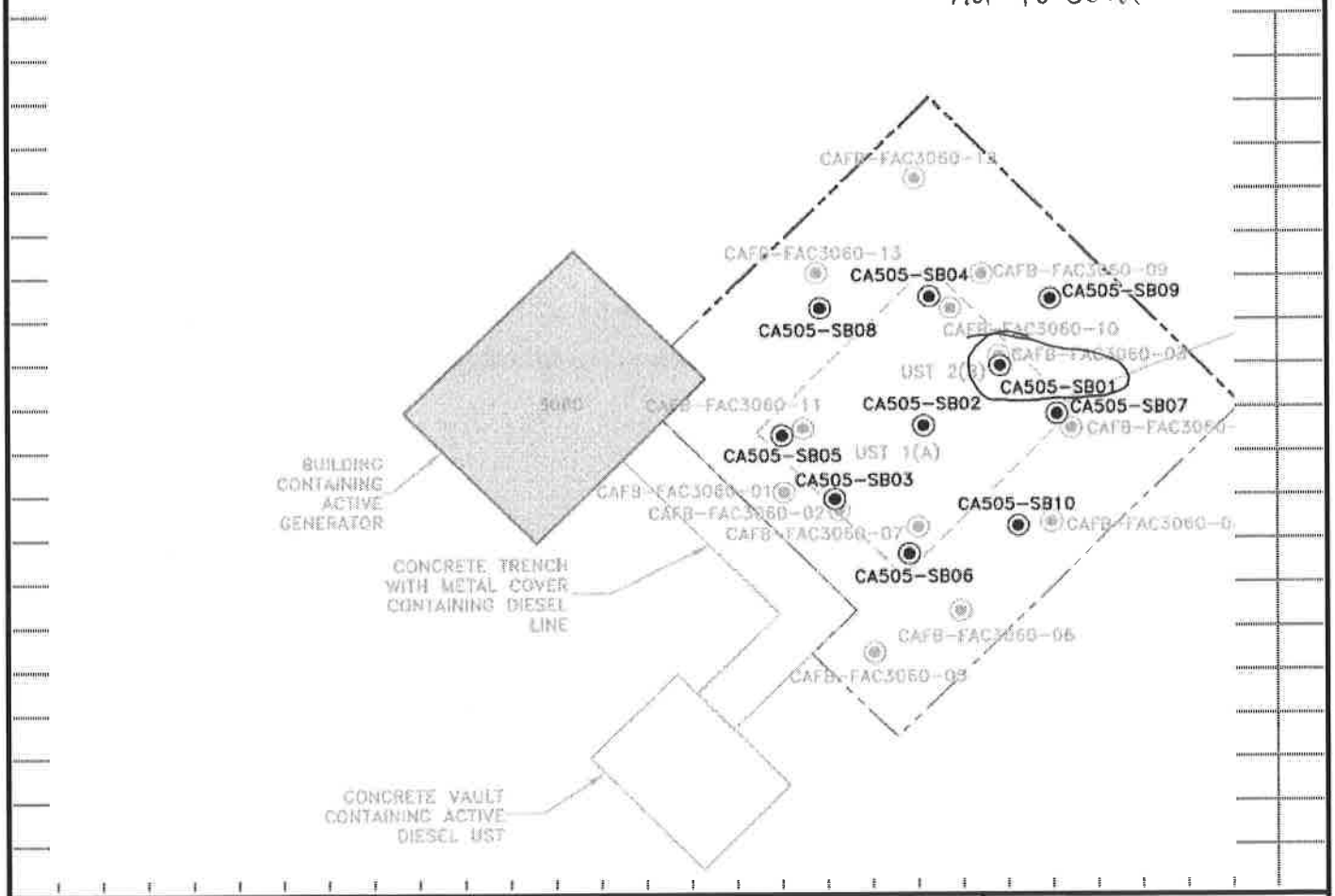
AFCEC-FA8903-08-D-8783-TO-0169

HOLE NUMBER: CA505-SB01

1. COMPANY NAME	URS Corp.
2. DRILLING SUBCONTRACTOR	Plains Environmental Services
SHEET	1 OF 4 SHEETS
3. PROJECT	Site Investigation at 8 Sites, Cannon AFB
4. LOCATION	Cannon AFB, NM
5. NAME OF DRILLER	J. Kalvig
6. MANUFACTURE'S DESIGNATION OF DRILL	Geoprobe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Geoprobe Macro Core Sampler, 1 5/8" diameter sample sleeve
8. HOLE LOCATION	1239206.862N 850901.345 E
9. SURFACE ELEVATION	4320.3 ft AMSL
10. DATE STARTED	4-16-13
11. DATE COMPLETED	4-17-13
12. OVERBURDEN THICKNESS	—
15. DEPTH GROUNDWATER ENCOUNTERED	—
13. DEPTH DRILLED INTO ROCK	—
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	—
14. TOTAL DEPTH OF HOLE	30'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	—
18. GEOTECHNICAL SAMPLES	0
DISTURBED	—
UNDISTURBED	—
19. TOTAL NUMBER OF CORE BOXES	—
20. SAMPLES FOR CHEMICAL ANALYSIS	6 + 3 dup
VOC	—
METALS	—
OTHER (SPECIFY)	TPH-DRO/GRO
OTHER (SPECIFY)	BTEX-Naphthalene
OTHER (SPECIFY)	SVOCs
21. TOTAL CORE RECOVERY	N/A %
22. DISPOSITION OF HOLE	hydrated bentonite chips
BACKFILLED	X
MONITORING WELL	—
OTHER (SPECIFY)	—
23. SIGNATURE OF INSPECTOR	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA505-SB01

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA505-SB01

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SILT(ML) - Stiff, dry, reddish brown, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect HS=2.1		CA505-SB01-005	PP=Pocket Pen (tons/ft²) PP=2.0	START TIME = 1535 Time (T) = 1540 Recovery (R) = 5.0/5.0 Fill
	1						
	2	with trace gravel					Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3					PP=2.0	
	4						
	5	with increasing sand	HS=0.9		CA505-SB01-010 (+ dup CA505-SB501-010 T=0800)		T=1555 R= 5.0/5.0
	6	SAND(SP) - Loose, dry, brown, fine, with trace gravel					
	7						
	8						
	9	Becomes light tan and coarse, with silt					End sampling for 4/16
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB01

HTRW DRILLING LOG

HOLE NO. CA505-SB01

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR McClure

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Silty SAND (SM) - Loose, dry, light tan, coarse, with trace gravel	HS=1.9		CA505-SB01-015 (+ dup CA505-SB01-015) T=0800		T=0816 R=5.0/5.0 Begin Sampling on 4/17
	11						
	12						
	13						
	14	Becomes light brown, fine, with no silt					Native soil
	15		HS=1.1		CA505-SB01-020 (+ dup CA505-SB01-020) T=0805		T=0833 R=5.0/5.0
	16						
	17						
	18	Sandy SILT (ML) - Very soft, dry, light brown, low plastic				PP=0.25	
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB01

HTRW DRILLING LOG

HOLE NO. CA505-SB01

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) - Very soft, dry, light brown, low plastic	HS=1.8		CA505-SB01-025	MPD .25	T=0906 R=5.0/5.0
	21	with increasing sand					
	22						
	23						
		SAND (SP) - Loose, dry, light brown, very fine					
	24						
	25		HS=0.3		CA505-SB01-030		T=0925 R=5.0/5.0
	26	with trace gravel					
	27						
	28						
	29						
	30	Bottom of boring - 30' bgs					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB01

HTRW DRILLING LOG

AFCEC-FA8903-08-D-8783-TO-0169

HOLE NUMBER: CA505-SB02

1. COMPANY NAME	URS Corp.
2. DRILLING SUBCONTRACTOR	Plains Environmental Services
SHEET	1 OF 4
3. PROJECT	Site Investigation at 8 Sites, Cannon AFB
4. LOCATION	Cannon AFB, NM
5. NAME OF DRILLER	J Kalvig
6. MANUFACTURE'S DESIGNATION OF DRILL	Geoprobe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Geoprobe Macro Core Sampler, 1 5/8" diameter sample sleeve
8. HOLE LOCATION	1239203.332N 850896.899E
9. SURFACE ELEVATION	4320.2 ft AMSL
10. DATE STARTED	4-17-13
11. DATE COMPLETED	4-17-13
12. OVERBURDEN THICKNESS	—
15. DEPTH GROUNDWATER ENCOUNTERED	—
13. DEPTH DRILLED INTO ROCK	—
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	—
14. TOTAL DEPTH OF HOLE	30'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	—

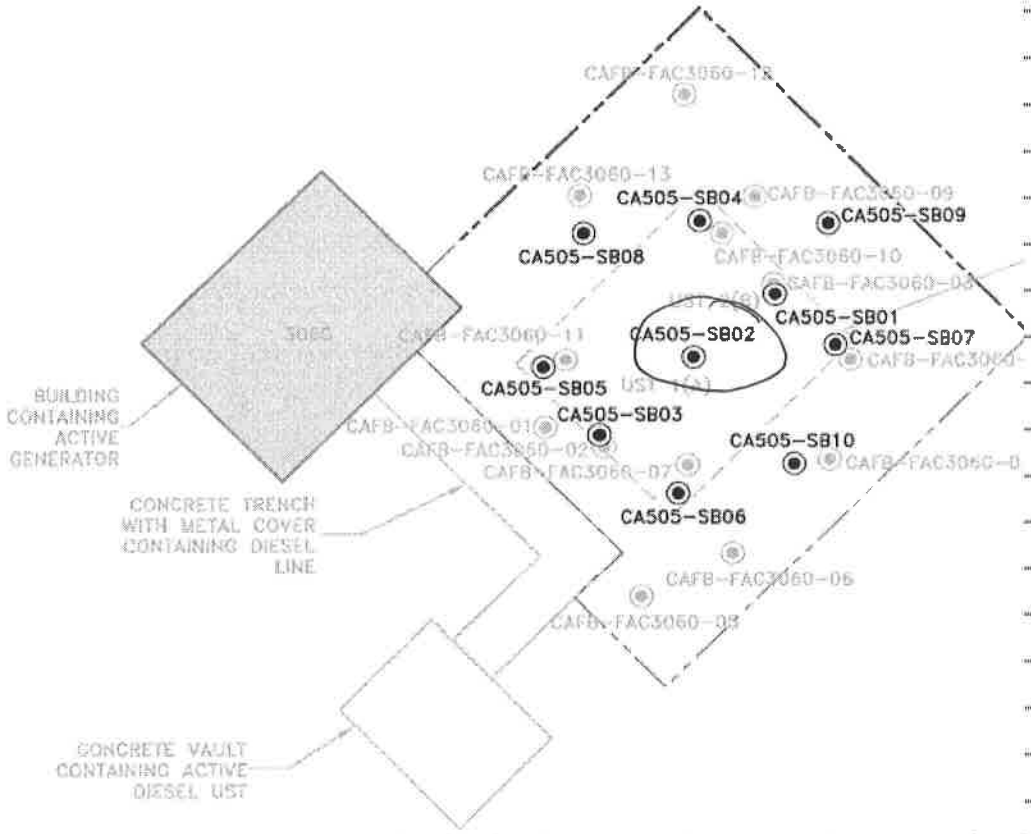
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
6 + 2 dup	—	—	TPH-DRO, ORO	BTEX+Naphthalene	SVOCs	N/A

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Michael Clin

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA505-SB02

HTRW DRILLING LOG

HOLE NO. CA505-SB02

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (HS = Head Space Screening; FS=Field Screening; BKG = Background; PPM=Parts Per Million; ND=Non Detect)	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS (PP=Pocket Pen (tons/ft²))	REMARKS h.
		SAND(SP) - Medium dense, dry, brown, fine, with trace gravel			CA505-SB02-005 + dup (CA505-SB02-005 T=0810)		START TIME = 1244; Time (T) = 1247; Recovery (R) = 4.5/5.0; Fill
	1		HS=1.5				
	2	Becomes light brown					Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3	With trace silt					
	4						
				NR			
	5		HS=1.3		CA505-SB02-010 + dup (CA505-SB02-010 T=0815)		T=1255; R=4.5/5.0
	6	With increasing silt					
	7						
	8	SILT(ML) - Stiff, dry, light tan, low plastic, with trace coarse sand				PP=2.0	
	9						
				NR			
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB02

HTRW DRILLING LOG

HOLE NO. CA505-SB02

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SILT(ML) - Stiff, dry, light tan, low plastic, with coarse sand	HS = 1.1		CA505-SB02-015		T = 1304 R = 5.0/5.0
	11	With increasing fine sand				PP = 2.0	
	12						
	13	0.8' of reddish brown, fine sand				PP = 1.5	
	14	Becomes gravelly					
	15		HS = 0.8		CA505-SB02-020		T = 1314 R = 5.0/5.0
		SAND(SP) - Loose, dry, light brown, fine					Native Soil
	16						
	17	With increasing silt					
	18						
	19						
		Silty SAND(SM) - Loose, dry, light brown, fine					
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB02

HTRW DRILLING LOG

HOLE NO. CA505-SB02

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Silty SAND (SM) - Loose, dry, light brown, fine	HS=1.2		CA505-SB02-025		T=1330 R=5.0/5.0
	21						
	22						
	23	SILT (ML) - Stiff, dry, light tan, low plastic, with coarse sand (weathered caliche)				PP=2.0	
	24						
		With trace gravel					
	25	With coarse sand	HS=1.4				T=1350 R=5.0/5.0
	26						
	27						
	28						
	29						
	30	Bottom of Boring - 30' bgs					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB02

HTRW DRILLING LOG

AFCEC-FA8903-08-D-8783-TO-0169

HOLE NUMBER: CA505-SB03

SHEET 1 OF 4 SHEETS

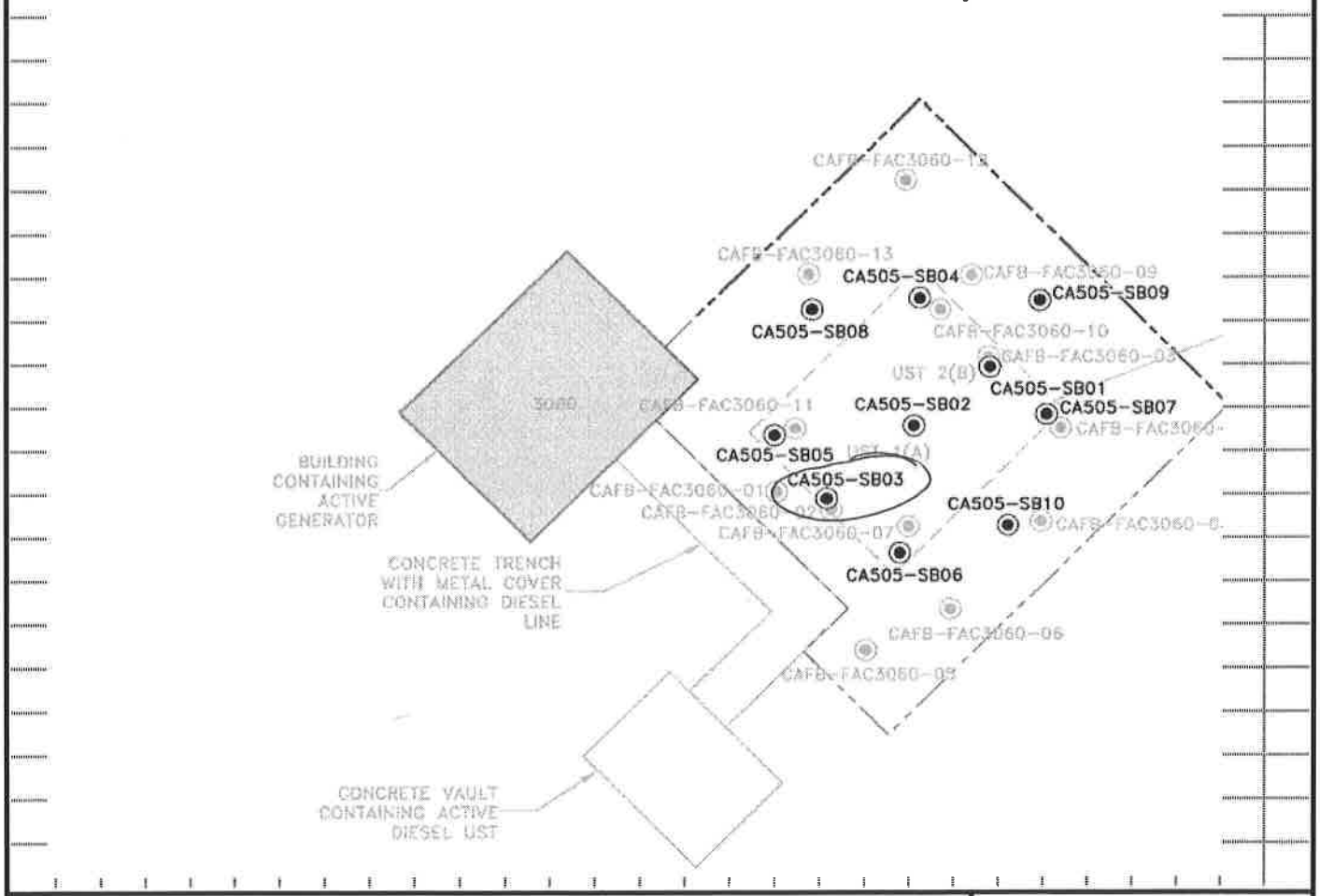
1. COMPANY NAME	URS Corp.
2. DRILLING SUBCONTRACTOR	Plains Environmental Services
3. PROJECT	Site Investigation at 8 Sites, Cannon AFB
4. LOCATION	Cannon AFB, NM
5. NAME OF DRILLER	J. Kalvig
6. MANUFACTURE'S DESIGNATION OF DRILL	Geoprobe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Geoprobe Macro Core Sampler, 1 5/8" diameter sample sleeve
8. HOLE LOCATION	1239198.967 N 850891.773 E
9. SURFACE ELEVATION	4320.2 ft AMSL
10. DATE STARTED	4-18-13
11. DATE COMPLETED	4-18-13
12. OVERBURDEN THICKNESS	—
13. DEPTH DRILLED INTO ROCK	—
14. TOTAL DEPTH OF HOLE	30'
15. DEPTH GROUNDWATER ENCOUNTERED	—
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	—
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	—
18. GEOTECHNICAL SAMPLES	0
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
6 + dup	—	—	TPH-DRO, ORO	BTEX + Naphthalene	SVOCs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB03

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA505-SB03

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Silty SAND (SM) - Medium dense, dry, brown, fine	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA505-SB03-005	PP=Pocket Pen (tons/ft²)	START TIME = 1025
	1		HS=0.6				Time (T) 1030 Recovery (R) 5.0/5.0 Fill
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3						
	4	With trace fine gravel					
	5		HS=1.1		CA505-SB03-010		T=1033 R=5.0/5.0
	6						
	7	With increasing silt					
	8	Sandy SILT (ML) - Stiff, dry, light tan, low plastic, with coarse sand				PP=1.0	
	9						
	10						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB03

HTRW DRILLING LOG

HOLE NO. CA505-SB03

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) - stiff, dry, light tan, low plastic, with coarse sand	HS=1.3		CA505-SB03-015 (4 dup CA505-SB03-015 T=0800)	PID=1.5	T=1040 R=5.0/5.0
	11						
	12						
	13	SAND (SP) - Loose, dry, brown, fine-grained, with trace gravel					Native Soil
	14						
	15		HS=1.0		CA505-SB03-020		T=1046 R=5.0/5.0
	16	With medium gravel					
	17						
	18						
	19	With no gravel					
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB03

HTRW DRILLING LOG

HOLE NO. CA505-SB03

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SAND (SP) - Loose, dry, brown, fine	HS=0.7		CA505-SB03-025		T=1100 R=5.0/5.0
	21						
	22						
	23						
	24	Becomes silty, light tan, coarser					
	25		HS=0.8		CA505-SB03-030		T=1120 R=5.0/5.0
	26	With trace coarse gravel					
	27						
	28						
	29						
	30	Bottom of boring - 30' bgs					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB03

HTRW DRILLING LOG

AFCEC-FA8903-08-D-8783-TO-0[illegible]

1. COMPANY NAME	URS Corp.
2. DRILLING SUBCONTRACTOR	Plains Environmental Services
HOLE NUMBER	CA505-SB04
SHEET	1 OF 4
3. PROJECT	Site Investigation at 8 Sites, Cannon AFB
4. LOCATION	Cannon AFB, NM
5. NAME OF DRILLER	J. Kalvig
6. MANUFACTURE'S DESIGNATION OF DRILL	Geoprobe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Geoprobe J Macro Core Sampler, 1 5/8" diameter sample sleeve
8. HOLE LOCATION	1239210.978N 850897.247E
9. SURFACE ELEVATION	4320.3 ft AMSL
10. DATE STARTED	4-16-13
11. DATE COMPLETED	4-16-13
12. OVERBURDEN THICKNESS	—
15. DEPTH GROUNDWATER ENCOUNTERED	—
13. DEPTH DRILLED INTO ROCK	—
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	—
14. TOTAL DEPTH OF HOLE	25'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	—

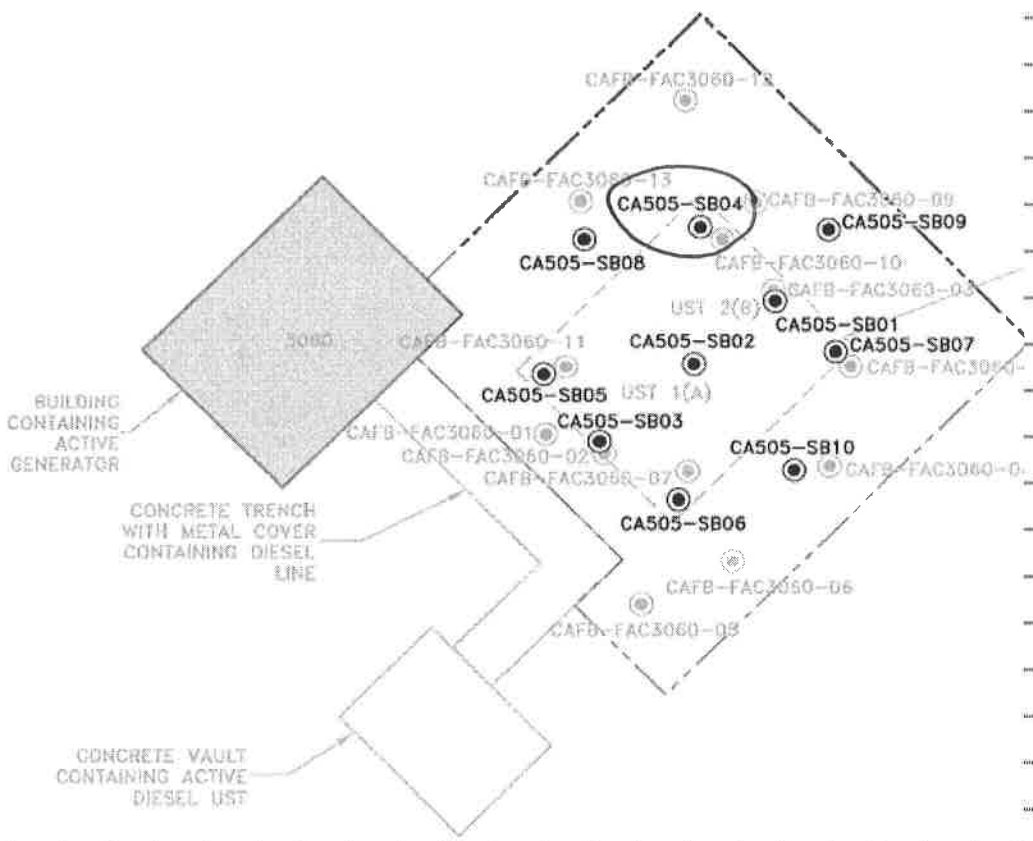
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
A	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 + MS/MSD	—	—	TPH-GRO, DRO	BTEX+Naphthalene	SVOCs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Michael Clin

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA505-SB04

HTRW DRILLING LOG

HOLE NO. CA505-SB04

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SILT(ML) - Stiff, dry, brown, low plastic, with trace gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA505-SB04-004 + MS/MSD	PP=Pocket Pen (tons/ft²)	START TIME = 1430
	1		HS=0.6			PP=2.0	Time (T) = 1435 Recovery (R) = 4.0/5.0 Fill
	2					PP=2.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3	SAND(SP) - Loose, dry, reddish brown, fine					
	4			NR			
	5		HS=1.2		CA505-SB04-009		T= 1445 R= 4.0/5.0
	6						
	7						
	8	SILT(ML) - Soft, dry, light tan, low plastic, with trace course sand				PP=0.25	
	9			NR			
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB04

HTRW DRILLING LOG

HOLE NO. CA505-SB04

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SILT(ML) - Soft, dry, light tan, low plastic, with trace fine gravel	HS=1.6		CA505-SB04-014	PP=0.25	T=1458 R=4.0/5.0
	11						
		With increasing sand					
	12						
						PP=0.5	
	13						
		SAND(SP) - Loose, dry, brown, fine grained					Native soil
	14						
					NR		
	15		HS=0.4		CA505-SB04-020		T=1505 R=5.0/5.0
	16						
	17						
	18	With fine gravel					
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB04

HTRW DRILLING LOG

HOLE NO. CA505-SB04

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SAND (SP) - Loose, dry, brown, fine, with fine gravel	HS=0.4		CA505-SB04-025		T=1520 R=5.0/5.0
	21						
	22						
	23						
	24						
	25	Bottom of boring - 25' bgs					
	26						
	27						
	28						
	29						
	30						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB04

HTRW DRILLING LOG

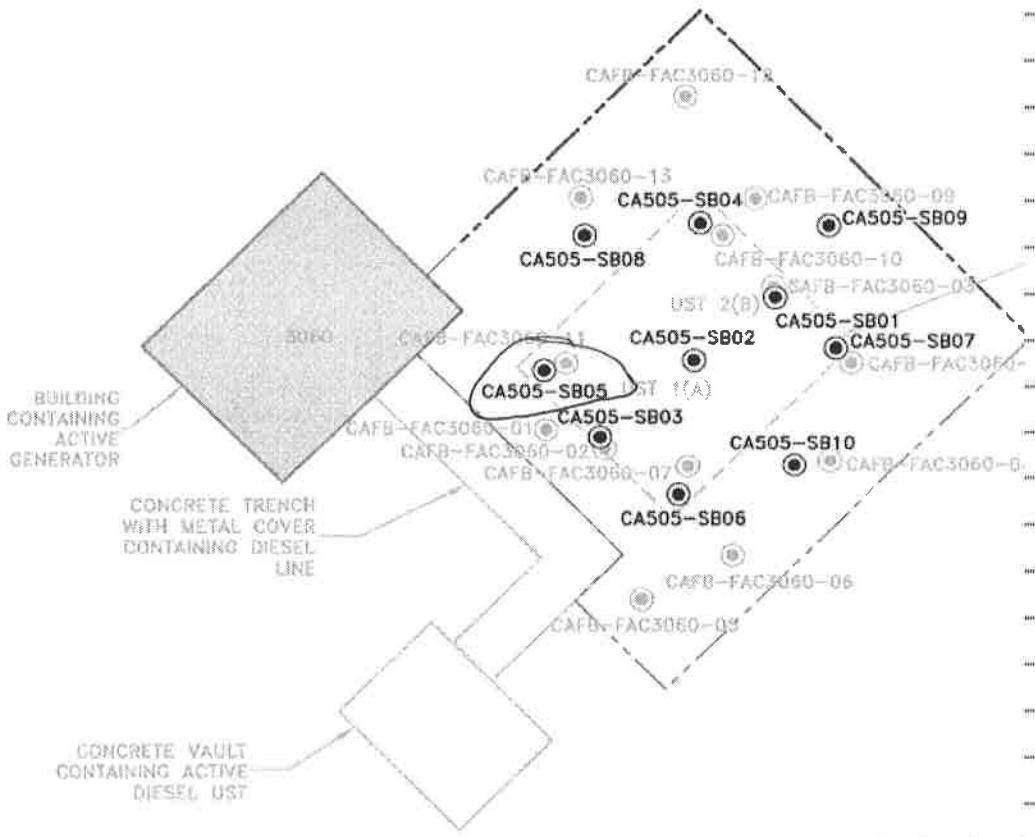
AFCEC-FA8903-08-D-8783-TO-0169

HOLE NUMBER: CA505-SB05

1. COMPANY NAME	URS Corp.
2. DRILLING SUBCONTRACTOR	Plains Environmental Services
SHEET	1 OF 4 SHEETS
3. PROJECT	Site Investigation at 8 Sites, Cannon AFB
4. LOCATION	Cannon AFB, NM
5. NAME OF DRILLER	J. Kalvig
6. MANUFACTURE'S DESIGNATION OF DRILL	Geoprobe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Geoprobe Macro Core Sampler, 1 3/8" diameter sample sleeve
8. HOLE LOCATION	1239202.764 N 850888.729 E
9. SURFACE ELEVATION	4320.2 ft AMSL
10. DATE STARTED	4-18-13
11. DATE COMPLETED	4-18-13
12. OVERBURDEN THICKNESS	—
13. DEPTH DRILLED INTO ROCK	—
14. TOTAL DEPTH OF HOLE	25'
15. DEPTH GROUNDWATER ENCOUNTERED	—
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	—
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	—
18. GEOTECHNICAL SAMPLES	0
DISTURBED	—
UNDISTURBED	—
19. TOTAL NUMBER OF CORE BOXES	—
20. SAMPLES FOR CHEMICAL ANALYSIS	5
VOC	—
METALS	—
OTHER (SPECIFY)	TPH-DRO, ORO
OTHER (SPECIFY)	BTEX + Naphthalene
OTHER (SPECIFY)	SVOCs
21. TOTAL CORE RECOVERY	N/A %
22. DISPOSITION OF HOLE	hydrated bentonite chips
BACKFILLED	X
MONITORING WELL	—
OTHER (SPECIFY)	—
23. SIGNATURE OF INSPECTOR	Mike Clin

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA505-SB05

HTRW DRILLING LOG

HOLE NO. CA505-SB05

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Silty SAND (SM) - Medium ~~dense~~, dry, reddish brown, fine-grained, with trace gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA505-SB05-005	PP=Pocket Pen (tons/ft²)	START TIME = 0903
		With no gravel	HS=0.3				Time (T) = 0907 Recovery (R) 4.5/5.0 Fill
	1						
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3						
	4						
					N.R.		
	5		HS=0.7		CA505-SB05-010		T=0916 R=4.5/5.0
		With fine gravel					
	6						
		With increasing gravel					
	7						
	8						
		Sandy SILT (ML) - Medium stiff, dry, light tan, low plastic, with fine gravel				PP=0.75	
	9						
					N.R.		
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB05

HTRW DRILLING LOG

HOLE NO. CA505-SB05

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR McCline

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) - Medium stiff, dry, light tan, low plastic	HS = 0.5		CA505-SB05-015	PP = 1.0	T = 0922 R = 4.7/5.0
		SAND (SP) - Loose, dry, light brown, fine					
	11						
	12	0.5' of large, white gravel					
		Becomes light tan, with trace fine gravel					Native Soil
	13						
	14						
				NR			
	15	With abundant fine gravel	HS = 0.6		CA505-SB05-020		T = 0930 R = 5.0/5.0
	16	With decreasing fine gravel					
	17						
	18	With fine gravel + silt					
	19	With decreasing gravel					
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB05

HTRW DRILLING LOG

HOLE NO. CA505-SB05

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SAND (SP) - Loose, dry, reddish brown, fine-grained, with trace gravel	HS=1.6		CA505-SB05-025		T=0957 R=5.0/5.0
	21						
	22						
	23						
	24						
	25	Bottom of boring - 25' bgs					
	26						
	27						
	28						
	29						
	30						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB05

HTRW DRILLING LOG

AFCEC-FA8903-08-D-8783-TO-0169

HOLE NUMBER: CA505-SB06

SHEET 1 OF 4 SHEETS

1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: J. Kaluig	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe MacroCore Sampler, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1239195.716N 850896.050E
	9. SURFACE ELEVATION: 4320.2 ft AMSL
	10. DATE STARTED: 4-17-13 / 11. DATE COMPLETED: 4-17-13
12. OVERBURDEN THICKNESS: —	15. DEPTH GROUNDWATER ENCOUNTERED: —
13. DEPTH DRILLED INTO ROCK: —	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: —
14. TOTAL DEPTH OF HOLE: 25'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —

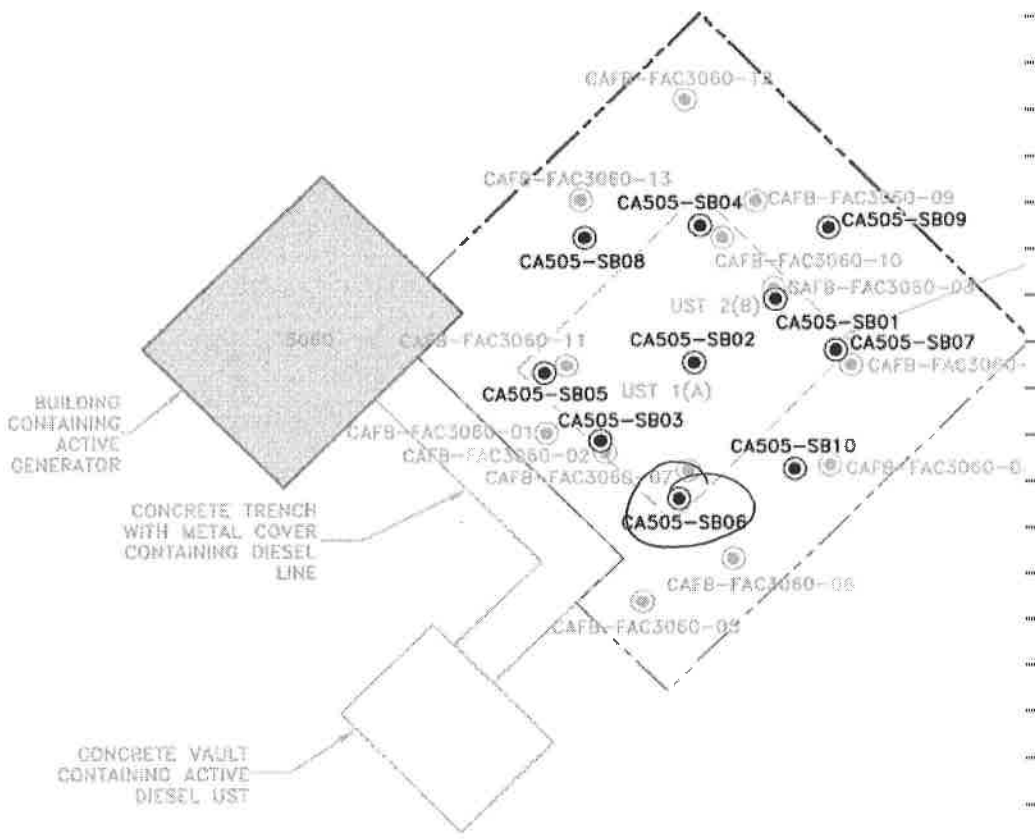
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	—	—	TPH-DRO, ORO	BTEX + Naphthalene	SVOCs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Michael Clin

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB06

HTRW DRILLING LOG

HOLE NO. CA505-SB06

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Silty SAND (SM) - Medium dense, dry, reddish brown, fine, with gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA505-SB06-005	PP=Pocket Pen (tsf)	START TIME = 1420 Time (T) = 1430 Recovery (R) = 5.0/5.0
	1	With no gravel	HS=2.2				Fill
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3						
	4	With trace gravel					
	5		HS=1.1		CA505-SB06-010		T=1435 R=5.0/5.0
	6	With increasing silt					
	7						
	8	Sandy SILT (ML) - Stiff, dry, light tan, low plastic, with coarse sand				PP=1.5	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB06

HTRW DRILLING LOG

HOLE NO. CA505-SB06

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M Cline

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) - Stiff, dry, light tan, low plastic, with coarse sand	HS=1.3		CA505-SB06-015	PP=2.0	T=1440 R=5.0/5.0
	11						
	12	With trace gravel					
	13					PP=1.5	
		0.4' of large gravel					
	14						
		SAND (SP) - Loose, dry, light brown, fine, with trace gravel					Native soil
	15		HS=0.9		CA505-SB06-020		T=1451 R=5.0/5.0
	16						
	17						
		With silt					
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB06

HTRW DRILLING LOG

HOLE NO. CA505-SB06

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Silty SAND (SM) - Loose, dry, light brown, fine	HS=0.7		CA505-SB06-025		T=1500 R=5.0/5.0
	21	With fine gravel					
	22						
	23						
	24						
	25	Bottom of boring - 25' bgs					
	26						
	27						
	28						
	29						
	30						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB06

HTRW DRILLING LOG

AFCEC-FA8903-08-D-8763-TO-0169

HOLE NUMBER: CA505-SB07

1. COMPANY NAME	URS Corp.
2. DRILLING SUBCONTRACTOR	Plains Environmental Services
SHEET	1 OF 4 SHEETS
3. PROJECT	Site Investigation at 8 Sites, Cannon AFB
4. LOCATION	Cannon AFB, NM
5. NAME OF DRILLER	J. Kaluig
6. MANUFACTURE'S DESIGNATION OF DRILL	Geoprobe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Geoprobe Macro Core Sampler, 1 5/8" diameter sample sleeve
8. HOLE LOCATION	1239204.021N 850904.657E
9. SURFACE ELEVATION	4320.2 ft AMSL
10. DATE STARTED	4-17-13
11. DATE COMPLETED	4-17-13
12. OVERBURDEN THICKNESS	—
15. DEPTH GROUNDWATER ENCOUNTERED	—
13. DEPTH DRILLED INTO ROCK	—
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	—
14. TOTAL DEPTH OF HOLE	25'
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	—

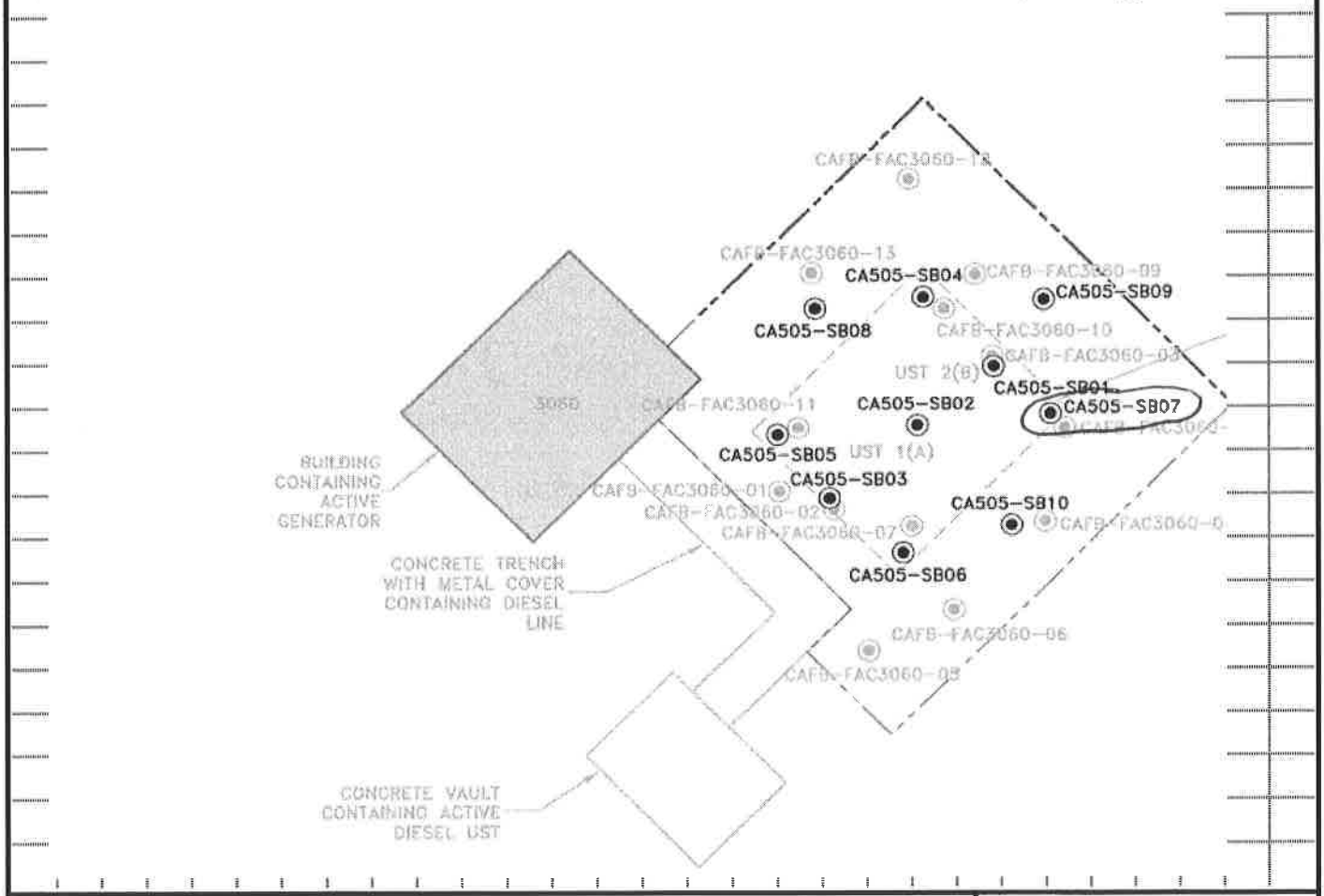
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 + MS/MSD	—	—	TPH-DRO, ORO	BTEX+Naphthalene	SVOCs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Matt Clin

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA505-SB07

HTRW DRILLING LOG

HOLE NO. CA505-SB07

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Silty SAND (SM) -- Medium dense, dry, brown, fine, with trace gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA505-SB07-005	PP=Pocket Pen (tons/ft²)	START TIME = 0937
	1	With no gravel	HS = 0.8				Time (T) = 0940 Recovery (R) = 5.0/5.0 FYI
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3						
	4						
		With increasing silt					
	5		HS = 1.7		CA505-SB07-010		T = 0953 R = 5.0/5.0
	6						
	7	Sandy SILT (ML) - Stiff, dry, light tan, low plastic, with coarse sand				PP = 2.0	
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB07

HTRW DRILLING LOG

HOLE NO. CA505-SB07

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) -- Stiff, dry, light tan, low plastic, with coarse sand	HS=1.3		CA505-SB07-015	PP=2.0	T=1001 R=5.0/5.0
	11						
	12						
	13					PP=2.0	
	14	With increasing fine sand					Native soil
	15		HS=0.6		CA505-SB07-020		T=1012 R=5.0/5.0
	16	SAND (SP) - Loose, dry, light brown, very fine					
	17						
	18	With silt					
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB07

HTRW DRILLING LOG

HOLE NO. CA505-SB07

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME=Silty SAND(SM)-Loose, dry, light brown, fine	HS=1.0		CA505-SB07-005 +MS/MSD		T=1031 R=5.0/5.0
	21						
	22						
	23						
	24	Becomes light tan					
	25	Bottom of Boring - 25' bgs					
	26						
	27						
	28						
	29						
	30						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB07

HTRW DRILLING LOG

AFCEC-FA8903-08-D-8783-TO-0169

HOLE NUMBER: CA505-SB08

SHEET 1 OF 4 SHEETS

1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: J. Kaluia	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core Sampler, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1239210.308 N 850890.937 E
	9. SURFACE ELEVATION: 4320.3 ft AMSL
	10. DATE STARTED: 4-18-13 / 11. DATE COMPLETED: 4-18-13
12. OVERBURDEN THICKNESS: —	15. DEPTH GROUNDWATER ENCOUNTERED: —
13. DEPTH DRILLED INTO ROCK: —	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: —
14. TOTAL DEPTH OF HOLE: 25'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —

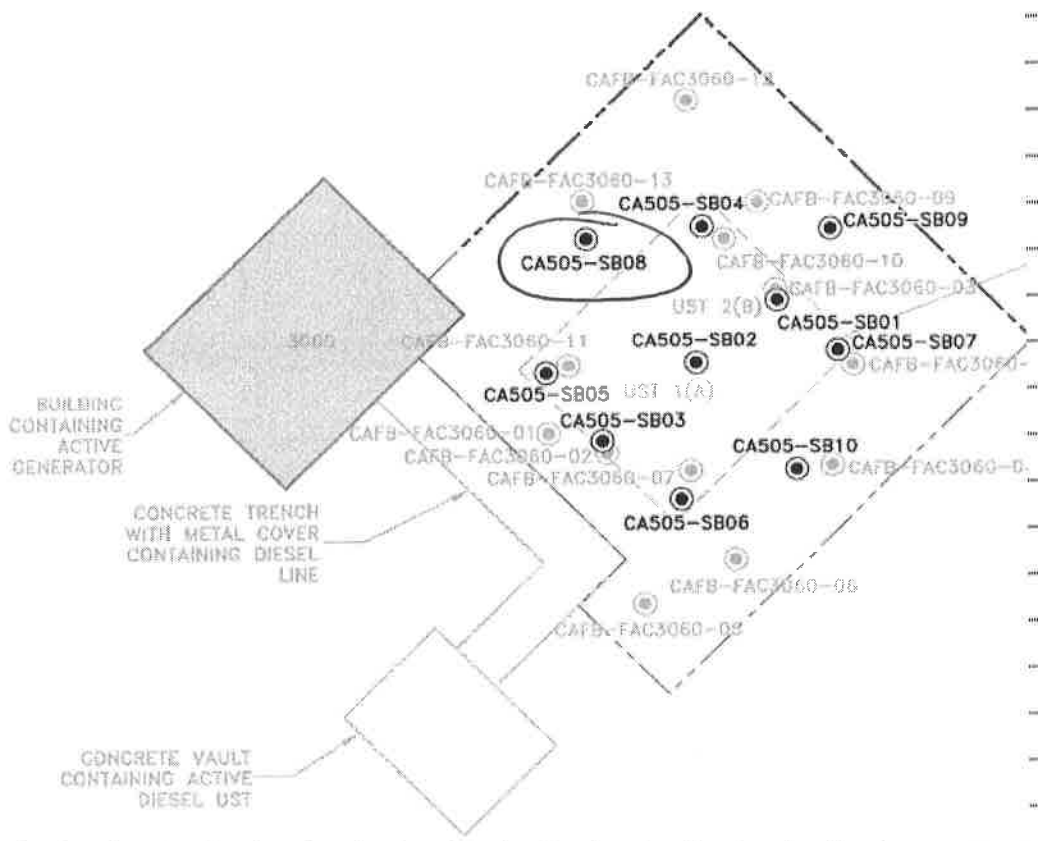
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5+MS/MSD	—	—	TPH-DRO, ORO	BTEX+Naphthalene	SVOCs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA505-SB08

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA505-SB08

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	1	Silty SAND (SM) – Medium dense, dry, brown, fine gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect HS=0.1		CA505-SB08-005	PP=Pocket Pen (tons/ft²)	START TIME = 0753 Time (T) = 0755 Recovery (R) = 5.0/5.0 Fill
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3						
	4	With fine gravel					
	5		HS=1.7		CA505-SB08-010		T=0804 R=5.0/5.0
	6						
	7						
	8	Sandy SILT (ML) – Medium stiff, dry, light tan, low plastic with fine gravel				PP=1.0	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB08

HTRW DRILLING LOG

HOLE NO. CA505-SB08

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) - Medium stiff, dry, light tan, low plastic, with trace fine gravel	HS=0.9		CA505-SB08-015	PP=0.75	T=0812 R=5.0/5.0
	11						
	12	SAND (SP) - Loose, dry, light brown, fine					Native soil
	13						
	14	With silt					
	15		HS=0.7		CA505-SB08-020 +MS/MSD		T=0819 R=5.0/5.0
	16	With trace gravel					
	17						
	18	Becomes reddish brown					
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB08

HTRW DRILLING LOG

HOLE NO. CA505-SB08

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR McCline

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SAND (SP) - Loose, dry, reddish brown, fine, with trace gravel	HS=0.3		CA505-SB08-035		T=0838 R=5.0/5.0
	21						
	22						
	23	With silt					
	24						
	25	Bottom of boring - 25' bgs					
	26						
	27						
	28						
	29						
	30						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB08

HTRW DRILLING LOG

AFCEC-FA8903-08-D-8763-TO-0169

HOLE NUMBER: CA505-SB09

1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services
SHEET 1 OF 4	
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: J. Kelvig	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core Sampler, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1239210.843 N 850904.266 E
	9. SURFACE ELEVATION: 4320.3 ft AMSL
	10. DATE STARTED: 4/16/13 — 11. DATE COMPLETED: 4/16/13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: —
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: —
14. TOTAL DEPTH OF HOLE: 25'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —

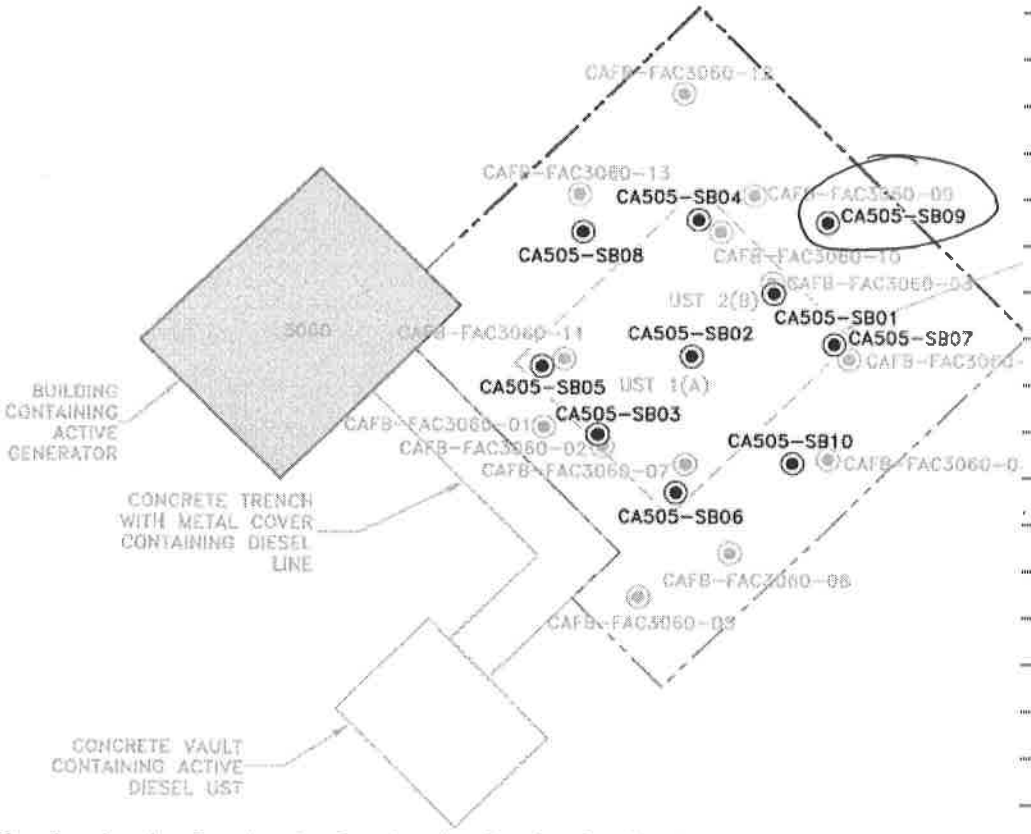
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
5	—	—	TPH-DRO, ORO	BTEX+Naphthalene	SVOCs	NA

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Michael Chin

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA505-SB09

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA505-SB09

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
			HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect			PP=Pocket Pen (tons/ft²)	START TIME = 1315
		SILT(ML) - Clayey, Stiff, dry, brown, low plastic, with trace sand			CA505-SB09-005		Time (T) 1320 Recovery (R) = 4.5/5.0
	1		HS=0.6			PP=0.0	Fill
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3					PP=0.0	
SJ	3						
	4	SAND(SP) - Loose, dry, reddish brown, very fine					
SJ	4			NR			
	5				CA505-SB09-009		T=1335 R=4.0/5.0
SJ	5		HS=1.0				
	6						
SJ	6	SILT(ML) - Soft, dry, reddish white, low plastic, with trace sand - weathered caliche					
	7					PP=0.5	
SJ	7						
	8						
		with trace gravel				PP=0.5	
	9			NR			
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB09

HTRW DRILLING LOG

HOLE NO. CA505-S809

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SILT(ML) - Soft, dry, reddish white, low plastic, with trace gravel + sand	HS=0.8		CA505-S809-014		T=1350 R=3.7/5.0
	11	~~with increasing stiffness~~ ML Becomes medium stiff				PP=1.0	
	12	Becomes Stiff, light tan, with increasing sand				PP=1.5	Native soil
	13						
	14			NR			
	15		HS=1.3		CA505-S809-019		T=1400 R=4.0/5.0
		SAND(SP) - Loose, dry, light brown, fine, ~~with~~ ML ~~medium-grained sand~~ to medium grained					
	16						
	17						
		1.2' of white silt with trace gravel (weathered caliche)					
	18						
		Sandy SILT(ML) - Very soft, dry, light brown, low plastic				PP=0.25	
	19			NR			
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-S809

HTRW DRILLING LOG

HOLE NO. CA505-SB09

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) - Very soft, dry, light brown, low plastic	HS = 1.0		CA505-SB09-025	PP = 0.25	T = 1415 R = 5.0/5.0
	21	Becomes light tan, with decreasing sand + increasing gravel					
		Becomes medium stiff				PP = 0.5	
	22						
		With increasing sand					
	23						
	24	SAND (SP) - loose, dry, light brown, very fine, with trace gravel					
	25	Bottom of boring 25' bgs					
	26						
	27						
	28						
	29						
	30						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB09

HTRW DRILLING LOG

AFCEC-FA8903-08-D-8783-TO-0169

HOLE NUMBER: CA505-SB10

SHEET 1 OF 4 SHEETS

1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, New Mexico
5. NAME OF DRILLER: J Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core Sampler, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1239197.370 N 850902.384 E
	9. SURFACE ELEVATION: 4320.2 ft AMSL
	10. DATE STARTED: 4-17-13 / 11. DATE COMPLETED: 4-17-13
12. OVERBURDEN THICKNESS: —	15. DEPTH GROUNDWATER ENCOUNTERED: —
13. DEPTH DRILLED INTO ROCK: —	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: —
14. TOTAL DEPTH OF HOLE: 24'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —

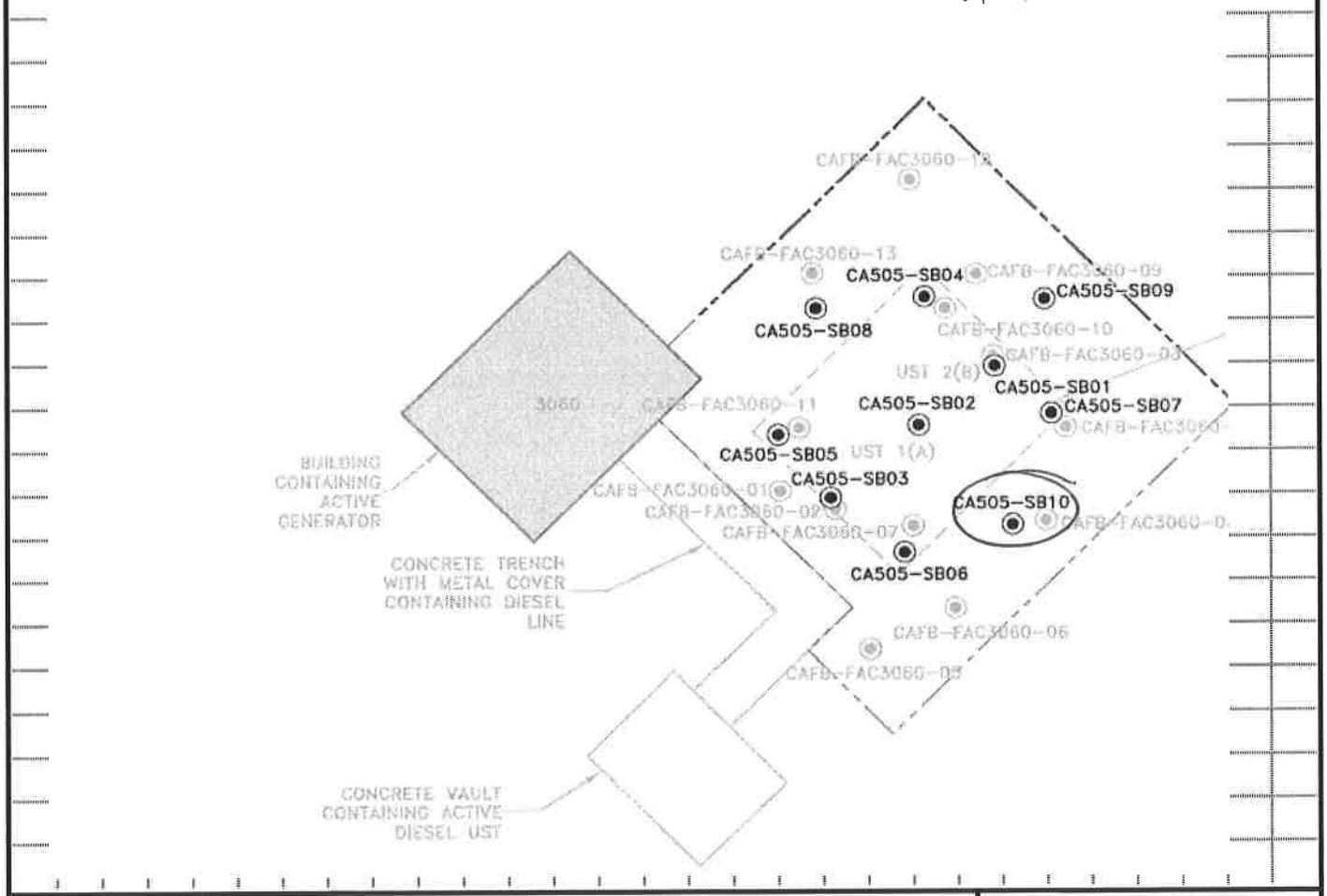
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 + MS/MSD	—	—	TPH-DRO, ORO	BTEX + Naphthalene	SVOCs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[illegible]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB10

HTRW DRILLING LOG

HOLE NO. CA505-SB10

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	1	Silty SAND (SM) - Medium dense, dry, brown, fine, with trace gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect HS=1.9		CA505-SB10-005 + MS/MSD	PP=Pocket Pen (tons/ft²)	START TIME = 1058 Time (T) = 1102 Recovery (R) 5.0/5.0 Fill
	2	With increasing silt					Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, and TPH-ORO
	3						
	4						
	5		HS=0.7		CA505-SB10-010		T= 1111 R= 5.0/5.0
	6						
	7						
	8	Sandy SILT (ML) - Stiff, dry, light tan, low plastic, with trace fine gravel				PP=2.0	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA505-SB10

HTRW DRILLING LOG

HOLE NO. CA505-S810

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) - Stiff, dry, light tan, low plastic, with trace fine gravel	HS = 1.0		CA505-S810-015	PP=2.0	T=1116 R=5.0/5.0
	11						
	12						
	13	With increasing fine sand				PP=1.5	
	14						
	15	SAND (SP) - Loose, dry, light brown, very fine	HS=0.8		CA505-S810-020		T=1125 R=5.0/5.0 Native Soil
	16						
	17						
	18	With gravel					
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-S810

HTRW DRILLING LOG

HOLE NO. CA505-SB10

PROJECT Site Investigation at 8 Sites, Cannon AFB

INSPECTOR M Cline

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SAND(SP) - Loose, dry, light brown, very fine	HJ=0.5		CA505-SB10-024		T-1137 R=4.0/4.0
	21						
	22						
		Becomes light tan, with silt					
	23						
		With large gravel					
							Refusal @ 24' bgs
	24	Bottom of boring - 24' bgs					
	25						
	26						
	27						
	28						
	29						
	30						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA505-SB10

HTRW DRILLING LOG

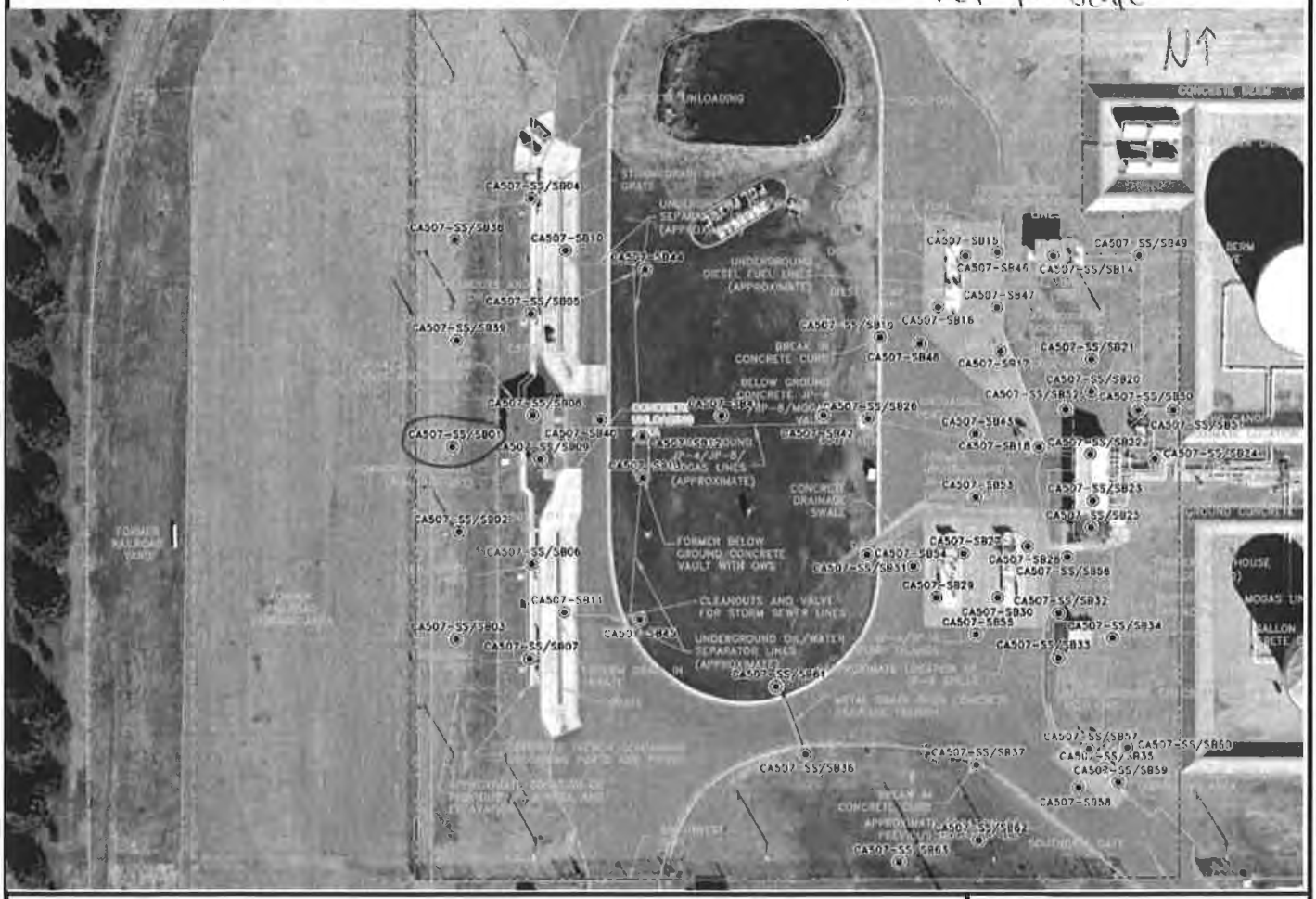
DISTRICT: AFCEC-FA8903-03-D-5783-TO-0169	HOLE NUMBER: CA507-SB01	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter Sample Sleeve	8. HOLE LOCATION: 1239270.938 N 847748.733 E	
	9. SURFACE ELEVATION: 4318.0 ft amsl	
	10. DATE STARTED: 3-4-13	11. DATE COMPLETED: 3-4-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	—	Lead	TPH-GRO, DRO, DRO	BTEX + Naphthalene	Site-specific SVOCs, PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Mitch Cline

LOCATION SKETCH/COMMENTS SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB01

HTRW DRILLING LOG

HOLE NO. CA507-SB01

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Silty CLAY (CL) – Very Stiff, moist, brown, low plastic, with trace course sand	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface Soil = CA507-SS01-001 Time = 1220	PP=Pocket Pen PP=2.0	START TIME = 1225 Fill
	1	Gravelly SAND (SP) – Loose, moist, light tan, poorly sorted gravel up to 1" in diameter	BKG = ND HS = ND		CA507-SB01-004		Time (T) = 1230 Recovery (R) = 4.0/5.0
		~~SAND (SP) – Loose, moist~~, brown, fine-grained, with no gravel Becomes					
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	Sandy SILT (ML) – Stiff, moist, brown, low plastic, with trace clay				PP=1.5	
	4				NR		
	5		HS = ND		CA507-SB01-010		T = 1240 R = 5.0/5.0
		10.1' of gravel Becomes tan, very stiff				PP=3.5	Becomes Native soil
	6						
		Color darkens to reddish brown					
	7					PP=3.0	
	8						
	9						
		SAND (SP) – Loose, dry, light brown, fine-grained					
	10						

HTRW DRILLING LOG

HOLE NO. CA507-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME: SAND(SP) - Loose, dry, light brown, fine-grained	HS=ND		CA507-SB01-015		T=1250 R=4.6/5.0
	11	Sandy SILT(ML) - Very stiff, dry, light tan, low plastic, with course-sand sized calcareous nodules				PP=2.5	
	12						
	13					PP=2.5	
	14						
		SAND(SP) - Loose, dry, brown, fine grained					
	15			NR			
		Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB01

HTRW DRILLING LOG

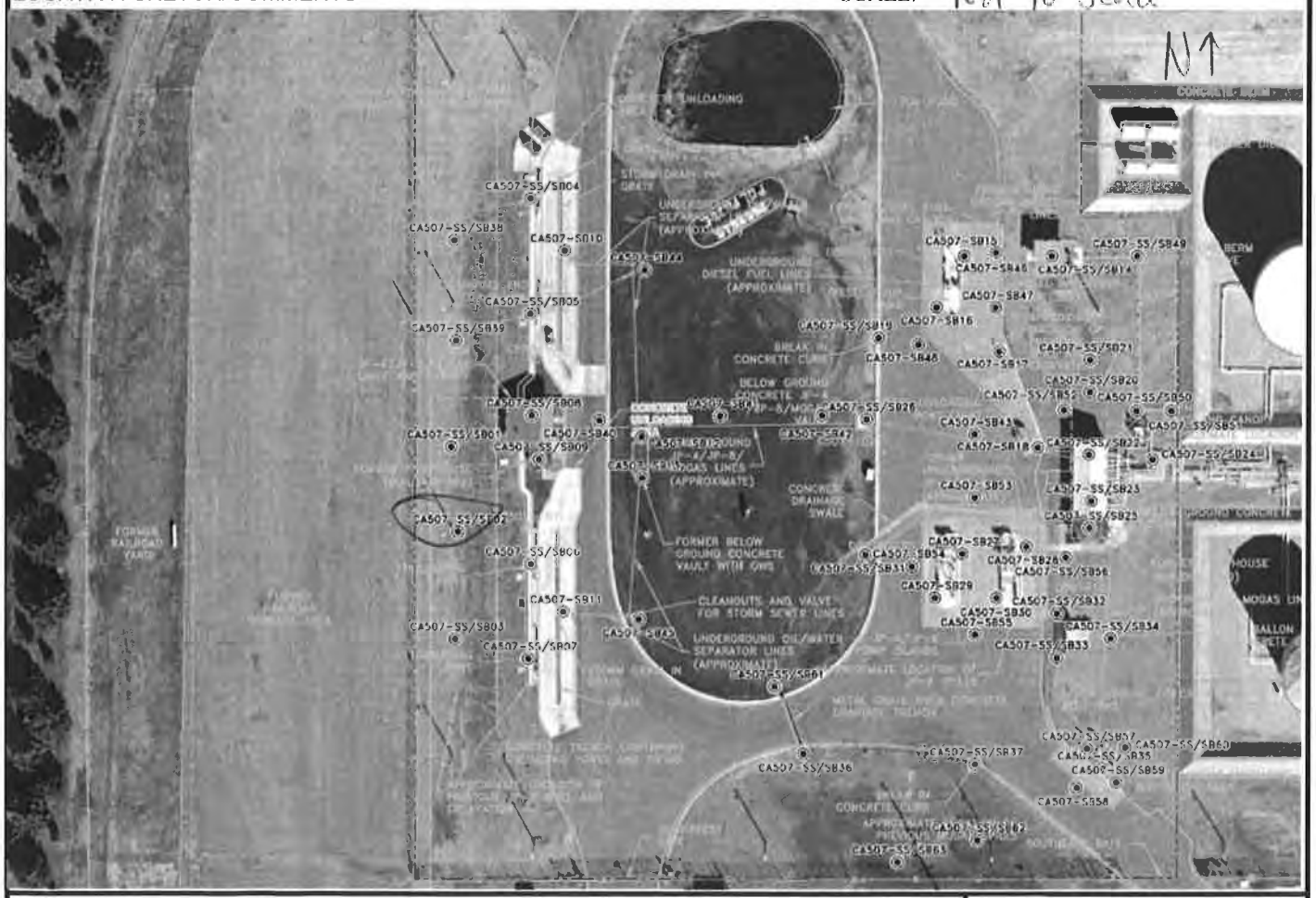
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB02
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1-3/8" diameter Sample sleeve	8. HOLE LOCATION: 1239224.095 N 847752.463 E	
	9. SURFACE ELEVATION: 4317.95 ft above mean sea level	
	10. DATE STARTED: 2-4-13	11. DATE COMPLETED: 2-4-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4 + dup	—	lead	TPH-DRO, GRO, GRO	BTEX/Naphthalene	Site-Related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Mitch Allen

LOCATION SKETCH/COMMENTS SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB02

HTRW DRILLING LOG

HOLE NO. CA507-SB02

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravelly SILT (ML) — Very stiff, moist, brown, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface Soil: CA507-SS02-001 Time = 1050	PP=Pocket Pen	START TIME = 1053 Time (T) = 1100 Recovery (R) = 4.1/5.0
	1	With fine sand + no gravel	BKG = ND HS = ND		ML ~~PP=3.0~~ CA507-SB02-004	PP=3.0	Fill
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3				ML ~~PP=2.5~~	PP=2.5	
	4						
	5				NR		
		10.5' of gravel	HS=3.4		CA507-SB02-010 + dup		T=1110 R=5.0/5.0
	6	Becomes some dry, light brown, with calcareous nodules				PP=2.0	Becomes native soil
	7	with clay					
	8	With increasing redness and sand, decreasing calcareous nodules				PP=2.0	
	9						
	10						

HTRW DRILLING LOG

HOLE NO. CA507-SB02

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
		SAME: Sandy SILT(ML) - Stiff, dry, light brown, low plastic	HS=7.1		CA507-SB02-015	PP=2.0	T=1125 R=5.0/5.0
	11	SAND(SP) - Loose, moist, brown, fine grained with trace coarse grained					
	12	Sandy SILT(ML) - Very stiff, moist, brown, low plastic, with trace clay				PP=2.5	
	13						
	14						
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB02

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0164		HOLE NUMBER: CA507-SB03
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 3/8" diameter sample sleeve		8. HOLE LOCATION: 1239164.876 N 847750.996 E
		9. SURFACE ELEVATION: 4318.9 ft above msl
		10. DATE STARTED: 2-4-13 / 11. DATE COMPLETED: 2-4-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	—	Lead	TPH-GRO, DRO	BTEX/Naphthalene	Site-Related SVOCs/PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite chips	X	—	—	Michael Clegg

LOCATION SKETCH/COMMENTS SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB03

HTRW DRILLING LOG

HOLE NO. CA507-SB03

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Sandy SILT (ML) - Very stiff, moist, brown, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG = ND HS = 12.6		Surface soil: CA507-SS03-001 Time = 0940 CA507-SB03-005	PP=Pocket Pen PP = 3.5	START TIME = 0945 Fill Time (T) = 0955 Recovery (R) = 5.0/5.0
	1						
	2					PP=4.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3					PP=3.5	
	4	Silty SAND (SM) - Medium dense, moist, light tan, poorly sorted, with gravel-sized calcareous nodules					
	5		HS = ND		CA507-SB03-010		T = 1005 R = 5.0/5.0 Begin Native soil
	6	Sandy SILT (ML) - Stiff, dry, brown, low plastic, with trace clay				PP=2.0	
	7						
	8					PP=2.5	
	9						
	10	0.2' of coarse sand SAND (SP) - Loose, dry, light brown, fine-grained					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB03

HTRW DRILLING LOG

HOLE NO. CA507-SB03

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME = SAND(SP) – Loose, dry, light brown, fine-grained	HS = ND		CA507-SB03-015		T = 1015 R = 5.0/5.0
		0.2' of dark brown, medium					
	11	Sandy SILT(ML) – Very stiff, dry, light tan, low plastic, with gravel-sized calcareous nodule				pp = 3.0	
	12	becomes moist with increasing sand				pp = 2.5	
	13						
	14	Silty SAND(SM) – Loose, dry, brown, fine-grained					
	15	Bottom of boring – 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB03

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB04
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1239407.946 N 847791.334 E	
	9. SURFACE ELEVATION: 4320.0 ft above msl	
	10. DATE STARTED: 2-4-13	11. DATE COMPLETED: 2-4-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4 + dup	—	lead	TPH-GRO, DRO, DRO	BTEX/Naphthalene	Site-Related SVOCs/PAHs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Mitch Clem

LOCATION SKETCH/COMMENTS SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB04

HTRW DRILLING LOG

HOLE NO. CA507-SB04

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Gravelly SAND (SP) - loose, dry, brown, poorly sorted	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface soil: CA507-SB04-001 + dup time = 1530	PP=Pocket Pen	START TIME = 1631 Fill Time (T) = 1540 Recovery (R) = 4.2/5.0
	1	With silt, no gravel, very fine grained	BKG=ND HS=2.5 FS=ND		CA507-SB04-004		
		Becomes dense					Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2						
	3						
		with clay and silt					
	4						
				NR			
	5		HS=1.6		CA507-SB04-010		T=1550 R=4.6/5.0
		Sandy SILT (ML) - Very stiff, dry, brown low plastic					
	6					PP=3.5	
	7						Soft drilling
	8	with increasing sand				PP=3.0	
	9						
				NR			
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB04

HTRW DRILLING LOG

HOLE NO. CA507-SB04

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
		SAME: SANDY SILT (ML) - Very stiff, dry, brown, low plastic	HS = ND		CA507-SB04-015	PP=3.0	T=1600 R=5.0/5.0
	11						
	12						
	13	Becomes tan				PP=2.5	
	14						
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB04

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB05
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe MacroCore, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1239344.349 N 847791.342 E	
	9. SURFACE ELEVATION: 4320.0 ft above msl	
	10. DATE STARTED: 2-5-13	11. DATE COMPLETED: 2-5-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4+ dup	—	Lead	BTEX + Naphthalene	TPH-GRO, DRO, DRO	Site-Related Solids, PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Matt Clin

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB05

HTRW DRILLING LOG

HOLE NO. CA507-SB05

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAND (SP) – Loose, dry, brown, fine, with gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface soil: CA507-SS05-001 TIME = 0850	PP=Pocket Pen	START TIME = 0905 Fill
		Becomes medium dense, reddish brown, with no gravel and increasing silt	BKG = ND HS = 3.6		CA507-SB05-005 + dup		Time (T) = 0915 Recovery (R) = 4.7/5.0
	1						
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	Sandy SILT (ML) – Very stiff, dry, brown, low plastic				PP = 3.0	
	4	With soft calcareous nodules					
	5			NR			
		With decreasing sand and increasing clay	HS = ND		CA507-SB05-010		T = 0940 R = 5.0/5.0
	6						
		Becomes hard				PP = 4.5	
	7						
	8						
		Silty CLAY (CL) – Very stiff, moist, light brown, low plastic				PP = 2.5	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB05

HTRW DRILLING LOG

HOLE NO. CA507-SB05

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Silty CLAY (CL) - Very stiff, moist, light brown, low plastic	HS= ND		CA507-SB05-015	pp=2.5	T=0950 R=5.0/5.0 Becomes native soil
	11	Silty SAND (SP) - Medium dense, moist reddish brown, fine grained					
	12	With increasing silt					
	13						
		SILT (ML) - Stiff, moist, tan, low plastic, with calcareous nodules				pp=2.0	
	14						
	15	Bottom of boring 15' bgs					
	16						
	17						
	18						
	19						
	20						

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB06
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter Sample sleeve	8. HOLE LOCATION: 1239206.208N 847791.977E	
	9. SURFACE ELEVATION: 4320.0 ft above msl	
	10. DATE STARTED: 2-5-13	11. DATE COMPLETED: 2-5-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

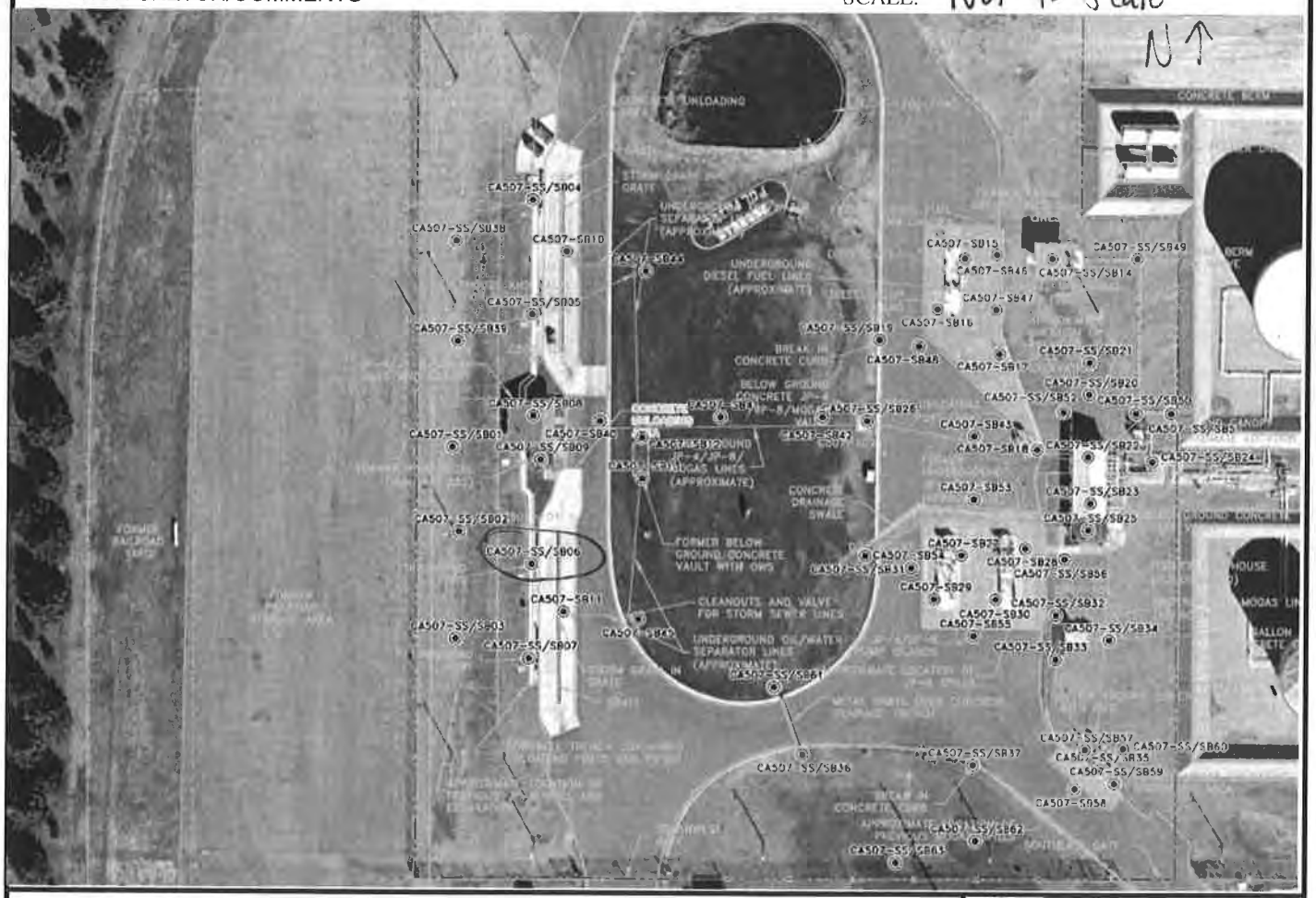
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	—	lead	TPH-DRO, ORO, GRO	BTEX + Napthalene	Site-specific SVOCs, PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Matt Clem

LOCATION SKETCH/COMMENTS

SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB06

HTRW DRILLING LOG

HOLE NO. CA507-SB06

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: McClure

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
		Gravelly SAND(SP) - Loose, dry, brown, poorly sorted	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		~~Surface Soil~~ CA507-SS06-001 Time: 1015	PP=Pocket Pen	START TIME = 1020 Fill Time (T) = 1030 Recovery (R) 5.0/5.0
	1	SILT(ML) - Very stiff, dry, reddish brown, low plastic, with trace gravel	BKG=ND HS=ND		CA507-SB06-005		
		With sand				PP=3.0	
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	With decreasing sand and increasing clay				PP=2.5	
	4	Becomes brown					
	5	With sand	HS=2.7		CA507-SB06-010		T=1045 R=5.0/5.0 Begin Native soil
	6	With decreasing sand				PP=2.5	
	7						
	8	Becomes light tan, with calcareous nodules				3.0	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB06

HTRW DRILLING LOG

HOLE NO. CA507-SB06

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M Cline

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SILT (ML) – Very stiff, dry, light tan, low plastic, with calcareous nodules	HS = ND		CA507-SB06-0115	PP=2.5	T=1055 R=50/50
	11	Silty SAND (SM) – Medium dense, moist, reddish brown, fine-grained					
	12	With increasing silt					
	13						
		SILT (ML) – Very stiff, moist, light tan, low plastic, with calcareous nodules				PP=3.0	
	14						
	15	Bottom of boring – 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB06

HTRW DRILLING LOG

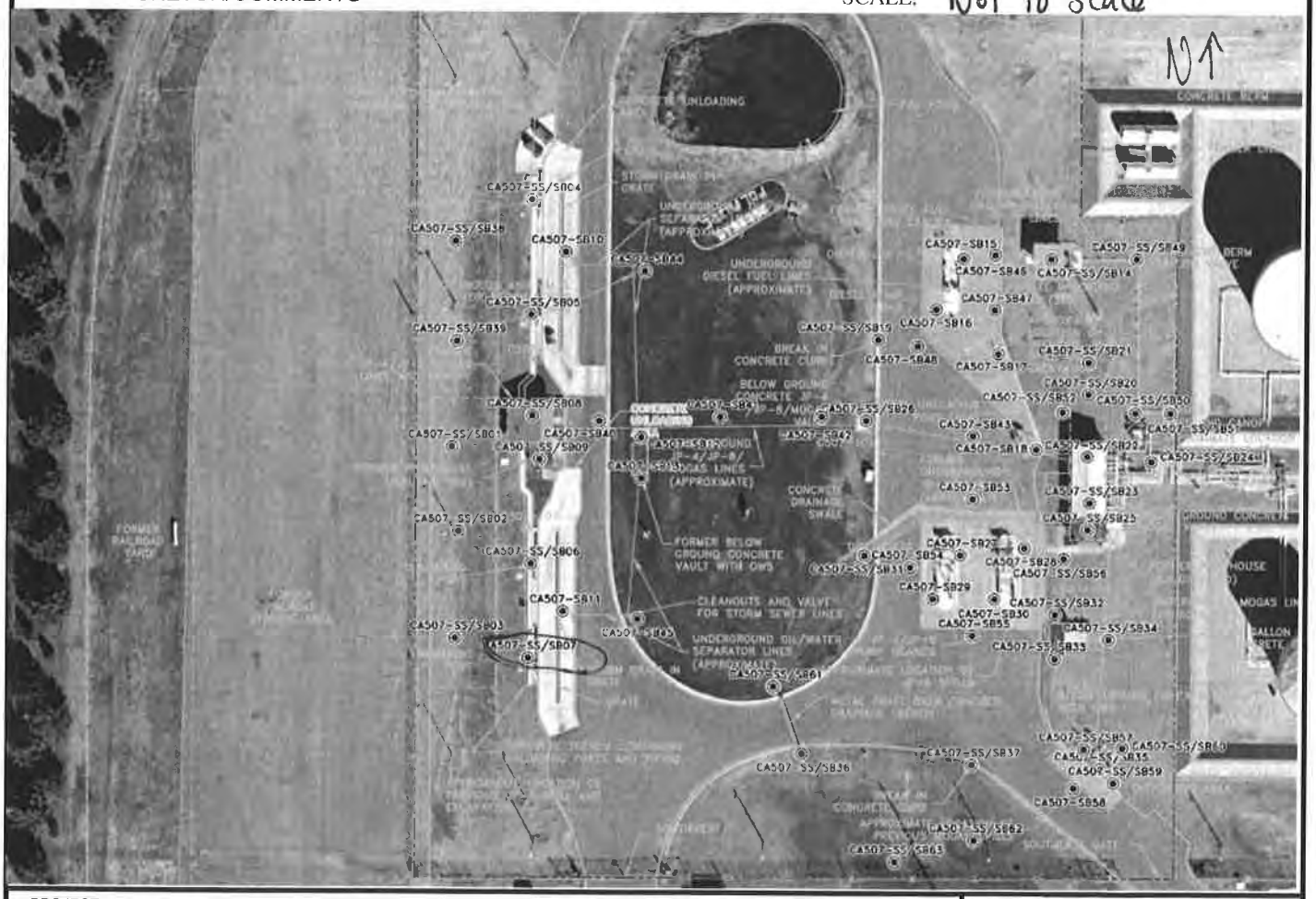
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB07
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1239153.947N 847790.784E	
	9. SURFACE ELEVATION: 4320.0 ft above MSL	
	10. DATE STARTED: 2-5-13	11. DATE COMPLETED: 2-5-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4 + dup	—	lead	TPH-GRO, DRO	BTEX + Naphthalene	Site-Related SVOCs, PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Mitch Clem

LOCATION SKETCH/COMMENTS SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB07

HTRW DRILLING LOG

HOLE NO. CA507-S807

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravelly SAND (SP) – Loose, dry, brown, poorly sorted	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface soil: CA507-S807-001 Time: 1120	PP=Pocket Pen	START TIME = 1125 Fill
	1	Sandy SILT (ML) – Hard, dry, brown, low plastic	BKG = ND HS = 0.6		CA507-S807-005 +dup	PP=4.0	Time (T) = 1135 Recovery (R) = 4.8/5.0
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3					PP=4.0	
	4						
	5	With decreasing sand and increasing clay	HS = ND	NR	CA507-S807-008		T = 1155 R = 2.5/5.0
	6						
	7	Silty CLAY (CL) – Very stiff, moist, light brown, med plastic				PP=3.5	
	8						
	9			NR			
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-S807

HTRW DRILLING LOG

HOLE NO. CA507-SB07

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME= CLAY (CL) - Very stiff, moist, light brown, med plastic	HS = ND		CA507-SB07-015		T= 1210 R= 5.0/5.0
	11	SILT (ML) - Very stiff, moist, reddish brown, low plastic				PP=3.5	Becomes native soil
		Becomes light tan, with calcareous nodules					
	12						
		Becomes hard				PP=4.5	
	13	With increasing sand					
	14	With clay and no sand					
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB07

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB08
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve	8. HOLE LOCATION: 1239301.839 N 847793.994 E	
	9. SURFACE ELEVATION: 4320.0 (ft above MSL)	
	10. DATE STARTED: 2-12-13	11. DATE COMPLETED: 2-12-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 12.5 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

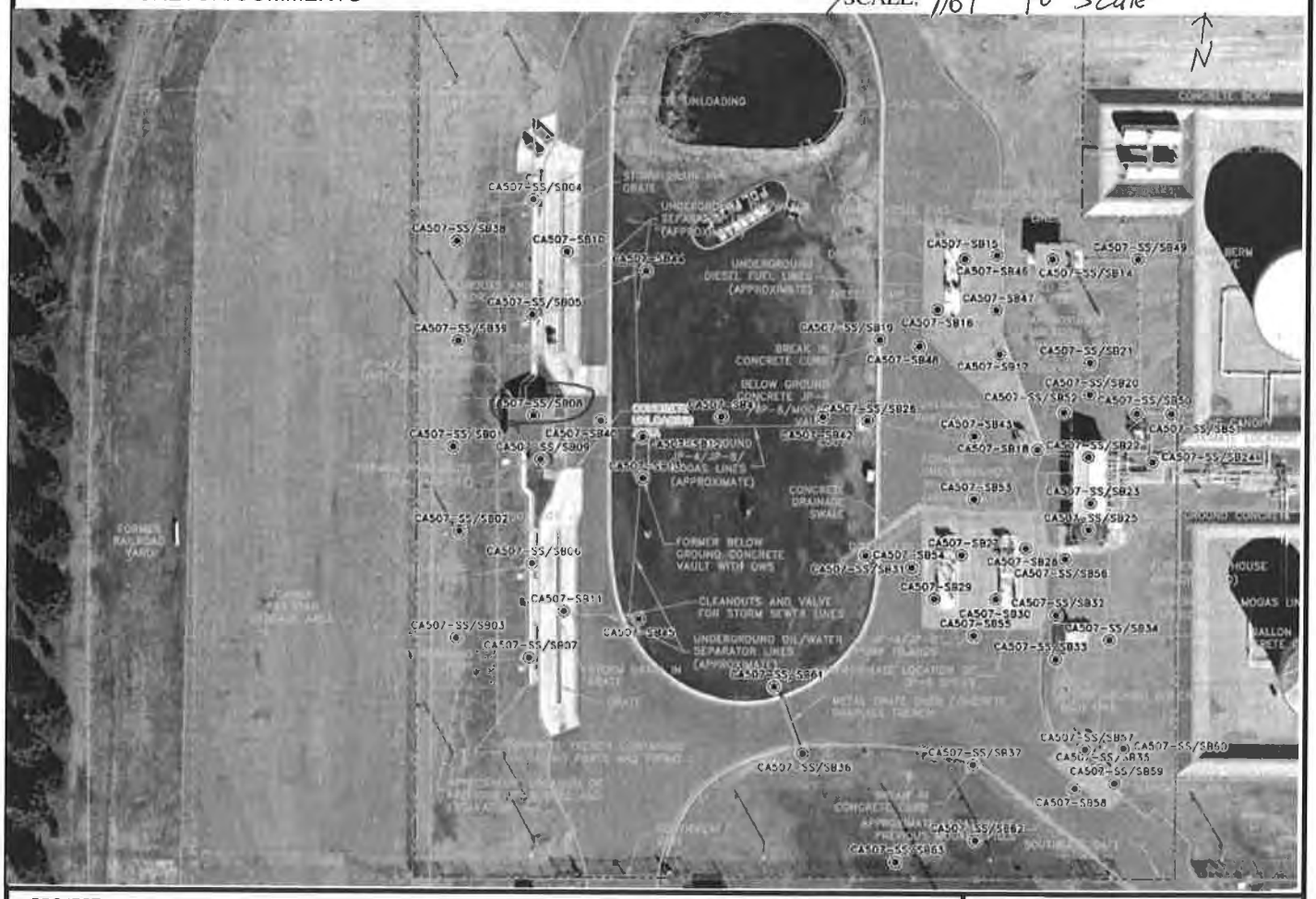
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4 + dup	—	Lead	BTEX + naphthalene	TPH-GRO, DRO, ORO	Site related SVOCs PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Conrad

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB08

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA507-SB08

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sandy SILT (ML) - very stiff, moist, light brown, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		SA507-SS08 surface soil -001 T=1351	PP=Pocket Pen	START TIME = 1350
	1		BKG= ND HS= ND		CA507-SB08 -005 + dup	PP=3.5	Time (T) = 1357 Recovery (R) = 4.8/5.0
	2					PP=3.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	SAND (SP) loose, moist, light brown, fine grained					
	4	Concrete				PP=3.0	
	5			NR			
			HS= ND		CA507-SB08 -010	PP=2.0	T=1405 R=4.6/5.0
	6						
	7	Becomes stiff, light tan, with decreasing sand				PP=2.0	
	8					PP=3.0	
	9						
	10			NR			

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB08

HTRW DRILLING LOG

HOLE NO. CA507-SB08

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same: Sandy SILT (ML) - Very stiff, moist, light brown, low plastic. with calcareous nodules	HS=ND		CA507-SB08-013		T=1419 R=25/25
	11						
	12						
		Bottom of Boring 12.5'					Refusal at 12.5'
	13						
	14						
	15						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB08

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8383-TO-0169		HOLE NUMBER: CA507-SB09
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 inch dia sample sleeve		8. HOLE LOCATION: 1239254.635N 847196.672E
		9. SURFACE ELEVATION: 4320.0 ft above msl
		10. DATE STARTED: 2-12-13 / 11. DATE COMPLETED: 2-12-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	—	Lead	TPH-GRO, DRO, ORO	Btex + naphthalene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite Chips	+	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB09

HTRW DRILLING LOG

HOLE NO. CA507-SB09

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sandy SILT (ML) Hard, moist, light ~~brown~~, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface Soil CA507-SS09-09 T=1305	PP=Pocket Pen	START TIME = 1300
			BKG=ND HS=1.7		CA507-SB09-004	PP=4.0	Time (T) 1320 Recovery (R) 4.0/5.0
	1						Fill
						PP=4.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2	with calcareous gravel					
	3	Becomes very stiff				PP=35	
	4				NR		
	5		HS=1.9		CA507-SB09-010		T=1327 R=5.0/5.0
	6					PP=2.5	
	7						
	8	Becomes light tan, with decreasing sand					native
						PP=30	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB09

HTRW DRILLING LOG

HOLE NO. CA507-SB09

PROJECT .e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conrad

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) - very stiff, moist, light tan, low plastic	HS=0.1		CA507-SB09 -015	PP=3.5	T= 1334 R=4.8/5.0
		Becomes light Brown					
	11						
		SAND - loose, moist, light brown					
	12	Becomes light tan				PP=3.0	
	13						
						PP=3.0	
	14						
	15	Bottom of Boring 15'		NR			

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB09

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB10
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macro core 1 5/8 inch sample sleeve		8. HOLE LOCATION: 1239379.193N 847809.921E
		9. SURFACE ELEVATION: 4320.0 ft above msl
		10. DATE STARTED: 2-12-13 / 11. DATE COMPLETED: 2-12-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	—	Lead	Btex + naphthalene	TPH-GRO, DRO, DRO	site related SVOC PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite Chips	X	—	—	Gene Cenedi

LOCATION SKETCH/COMMENTS — SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB10

HTRW DRILLING LOG

HOLE NO. CA507-SB10

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=1.6		CA507-SB10-005	PT=Pocket Pen	START TIME = 1000 Time (T) 1020 Recovery (R) 5.0/5.0
	1	SAND (SP) - loose, moist, light brown, fine grained					Fill
	2	CLAY (CL) - Hard, moist, brown, medium plastic				PR=4.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	Sandy SILT (ML) - Very stiff, moist, brown, low plastic				PR=2.5	
	4						
	5		HS=1.4		CA507-SB10-010		T=1025 R=5.0/5.0
	6					PR=2.5	
	7						
		Becomes light tan, with decreasing sand				PR=3.0	Native Soil
	8						
	9					PR=3.0	
	10	Becomes light brown					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB10

HTRW DRILLING LOG

HOLE NO. CA507-SB10

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Same: Sandy SILT(ML) - Very stiff, moist, light brown low plastic	HS=0.8		CA507-SB10-015	PP=3.0	T=1030 R=5.0/5.0
	11						
	12					PP=2.5	
	13	Becomes light tan					
	14					PP=2.5	
	15	Bottom of Boring 15 ft					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB10

HTRW DRILLING LOG

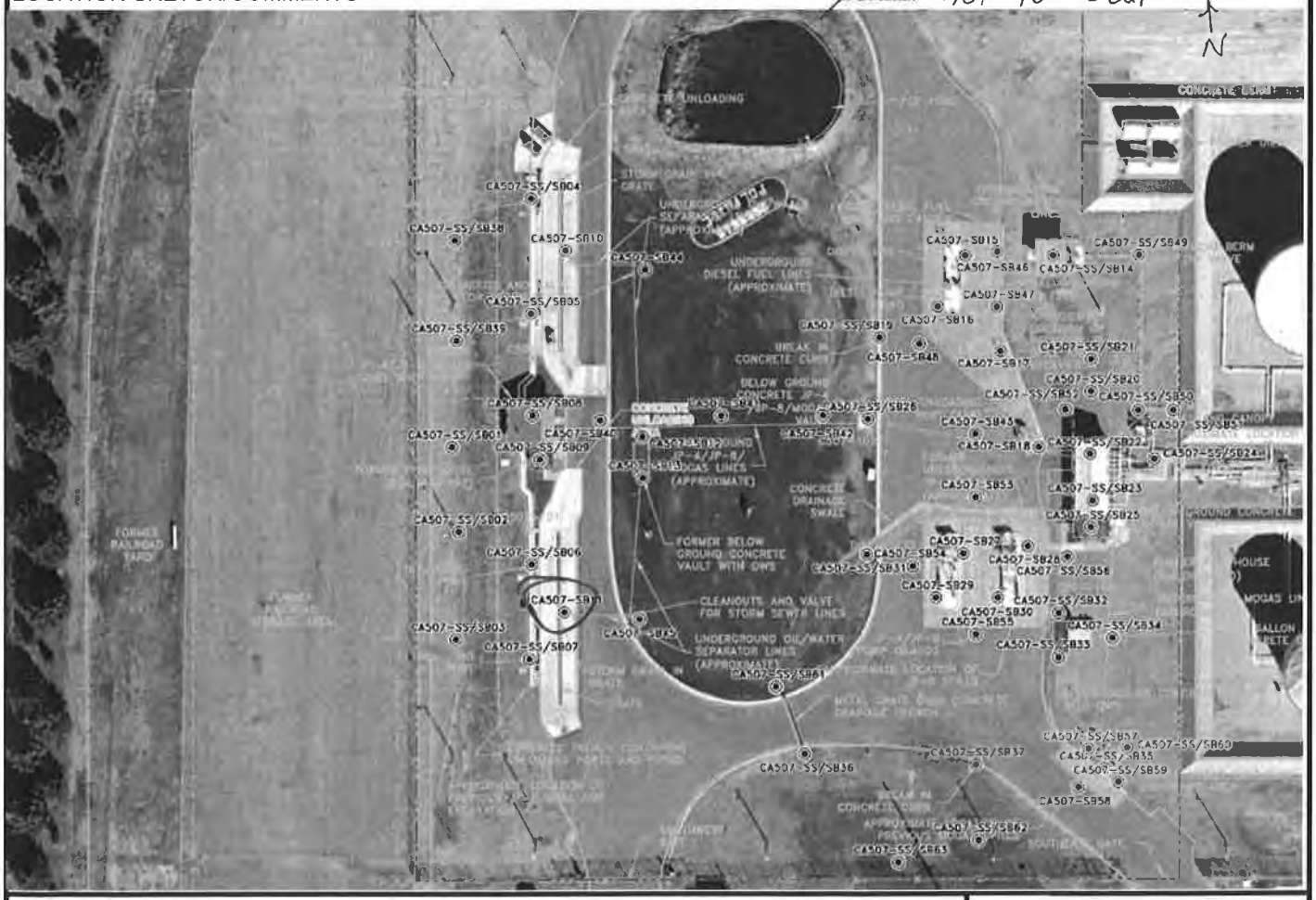
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB11
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve		8. HOLE LOCATION: 1239179.853N 847809.589E
		9. SURFACE ELEVATION: 4320.0 ft above MSL
		10. DATE STARTED: 2-12-13 / 11. DATE COMPLETED: 2-12-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	–	–	–

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 TMS/MSD	–	Lead	TPH-GRO, DRO, ORO	Btex + Naphthalene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	–	–	James Cordt

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB11

HTRW DRILLING LOG

HOLE NO. CA507-SB11

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conodi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLI OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG= ND HS=2.9		CA507-SB11 -005	PP=Pocket Pen	START TIME =1045 Time (T) 1052 Recovery (R) 5.0/5.0
	1	SAND(SP)- loose, moist, light brown, fine grained					Fill
	2	CLAY (CL)- Hard, moist, brown, medium plastic				PP=4.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	Sandy SILT(ML)- Very stiff, moist, light brown low plastic				PP=3.0	
	4						
	5		HS=3.1		CA507-SB11 -010		T=1058 R=5.0/5.0
	6					PP=2.5	
	7	Becomes light tan, with decreasing sand				PP=3.0	
	8						
	9					PP=2.5	
	10	Becomes light brown, with increasing sand					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB11

HTRW DRILLING LOG

HOLE NO. CA507-SB11

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		S ane: Sandy SILT(ML) - Very stiff, moist, light brown, low plastic	HS=19.1		CA507SB11 -015	PP=2.5	T=1/03 R=5.0/5.0
					MS/MSD		
	11						
	12	Becomes light tan, with decreasing Sand. Becomes stiff				PP=2.0	
	13						
	14					PP=1.5	
	15	Bottom of Boring 15 ft					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB11

HTRW DRILLING LOG

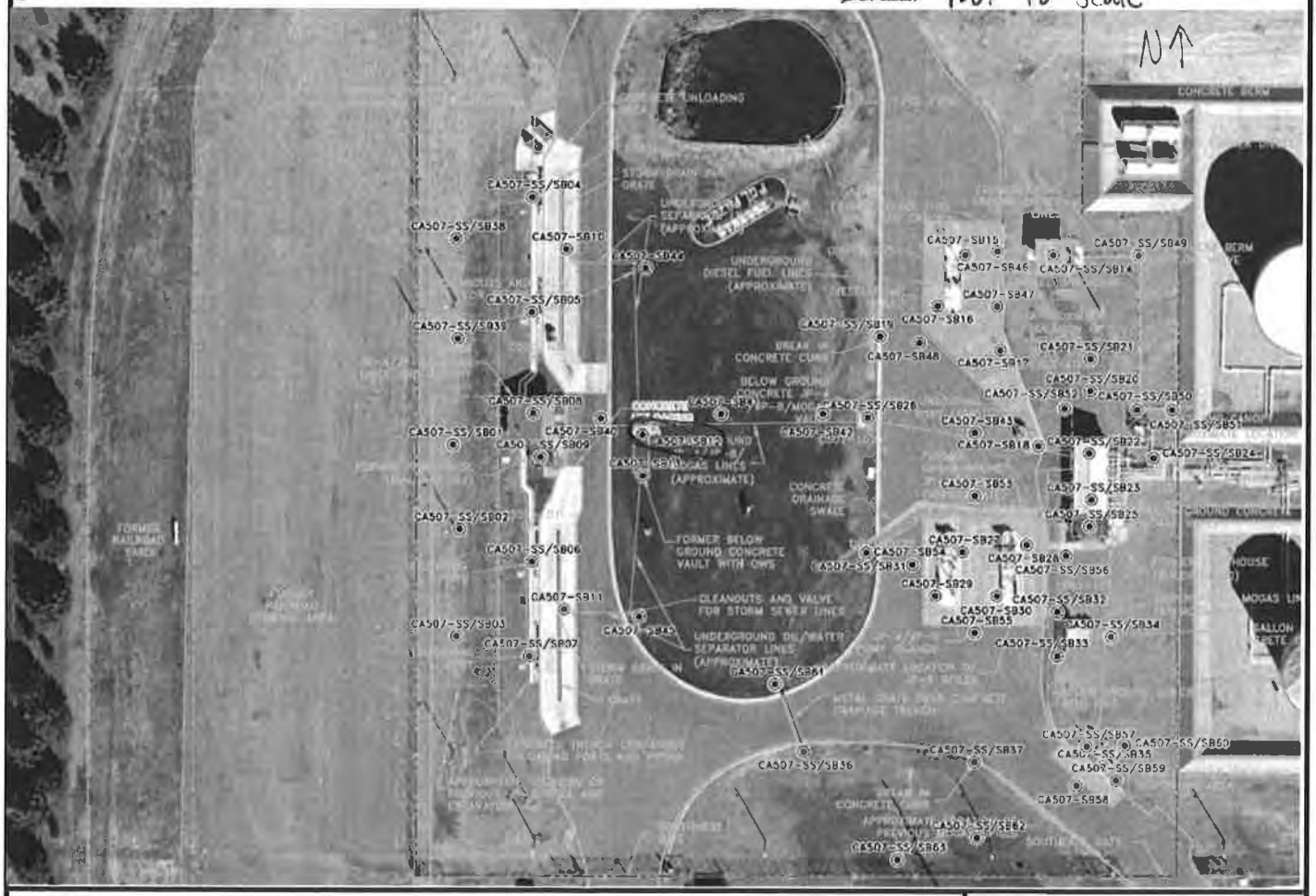
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB12
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macro core 1 5/8 inch dia sample sleve		8. HOLE LOCATION: 1239276.571 N 847851.895 E
		9. SURFACE ELEVATION: 4319.95 ft (MSL)
		10. DATE STARTED: 2-6-13 / 11. DATE COMPLETED: 2-6-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 20 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 + dup	—	Lead	TPH-Gas-DRO-ORO	Btex + Naphthalene	Site Related Sol PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite chips	X	—	—	James Gandi

LOCATION SKETCH/COMMENTS — SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB12

HTRW DRILLING LOG

HOLE NO. CA507-SB12

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAND(SP) – loose, dry, reddsh brown, fine grained, trace gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		Surface Soil CA507-SB12-001 T=0957 CA507-SB12-004	PP=Pocket Pen	START TIME 1000 Fill Time (T) 1007 Recovery (R) 4.0/5.0
	1	Sandy SILT(ML) – Hard, moist, brown, low plastic	HS=ND			PP=>4.0	
	2	sand 0.1 ft of coarse, brown, sand					Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3					PP=4.0	
	4			NR			
	5		HS=ND		CA507-SB12-010 + dup		T=1020 R=5.0/5.0
	6	with increasing silt					
	7	SILT(ML) stiff, moist, light tan, low plastic					
	8					PP=2.0	
	9	Becomes brown				PP=3.0	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB12

HTRW DRILLING LOG

HOLE NO. CA507-SB12

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h.
		SAME: SILT (ML) - stiff, moist, light tan low plastic	~~HS - Head Space Screening~~ ~~FS - Field Screening~~ ~~BKG - Background~~ ~~PPM - Parts Per Million~~ ~~ND - Non Detect~~		CA507-SB12-015	~~[illegible]~~	~~Start [illegible]~~ Time (T) - 1045 Recovery (R) 5.0/5.0
	11	Sandy SILT (ML) - stiff, moist, brown, low plastic	HS = ND			PP=2.5	
	12	SILT (ML) - Hard, dry, light tan, low plastic, with calcareous nodules				PP=>4.0	~~Soil samples collected analyzed for BTEX + naphthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead~~ Native Soil
	13	Sand, brown, dry, fine grained					
	14						
	15		HS = ND		CA507-SB12-020		T = 1050 R = 5.0/5.0
	16	SAND (SP) - loose, moist, light brown, fine grained, with calcareous nodules					
	17						
	18						
	19						
	20	Bottom of Boring 20'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB12

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8283-TO-0169		HOLE NUMBER: CA507-SB13
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: Rod Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore, 1 3/8 dia. Sample sleeve		8. HOLE LOCATION: 1239253.817N 847852.134E
		9. SURFACE ELEVATION: 4320.0 ft above msl
		10. DATE STARTED: 2-6-13 / 11. DATE COMPLETED: 2-6-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 20 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 + dup	—	Lead	TPH-GRO, DRO, ORO	Btex + Naphthalene	Semivolatile Sox + PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite chips	X	—	—	James Cowell

LOCATION SKETCH/COMMENTS — SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB13

HTRW DRILLING LOG

HOLE NO. CA507-SB13

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: James Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAND (SP) – loose, dry, reddish brown, fine grained, with trace gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		Surface Soil 1 CA507-SS13-001 Time=0820	PP=Pocket Pen	START TIME = 0830 Fill Time (T) 0853 Recovery (R) 4.0/5.0
	1	Sandy SILT (ML) – Very stiff, dry, brown low plastic, with trace gravel	HS=ND		CA507-SB13-004	PP=3.5	
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3					PP=3.5	
	4	0.3 of Gravelley Sand		NR			
	5		HS=ND		CA507-SB13-010 + dup		T=0911 R=4.5/5.0
	6					PP=2.5	
	7	with no gravel, with fine sand + calcareous nodules (coarse sand sized)					
	8					PP=3.5	
	9	with trace gravel					
	10				ND		

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB13

HTRW DRILLING LOG

HOLE NO. CA507-SB13

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	SAME: Sandy SILT (ML) very stiff, dry, brown low plastic, with trace, gravel	HS=ND		CA507-SB13-015	PP=3.5	T=0925 R=5.0/5.0
	11						
	12	with increasing clay					
		Silty CLAY (CL) - very stiff, moist, light tan, med plastic				PP=3.5	
	13						
	14	with SAND					
		with Gravel					
		Sandy SILT (ML) - very stiff, dry, brown, low plastic				PP=3.5	Native soil
	15						
			HS=ND	CA507-SB13-020		PP=1.5	T=0935 R=5.0/5.0
	16	with increasing sand					
		SILTY SAND (SM) - loose, moist, light brown fine grained,					
	17						
		SILT (ML) - ~~stiff~~ Hard, moist, light tan, low plastic, with calcareous nodules				PP=4.0	
	18						
		Becomes brown, with increasing sand					
	19	Becomes very stiff				PP=2.5	
	20	Bottom of Boring 20' bgs	~~HS=~~				

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB13

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB14
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 inch sample sleeve		8. HOLE LOCATION: 1239376.39 N 848074.957 E
		9. SURFACE ELEVATION: 4317.5 ft MSL
		10. DATE STARTED: 2-8-13 / 11. DATE COMPLETED: 2-8-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

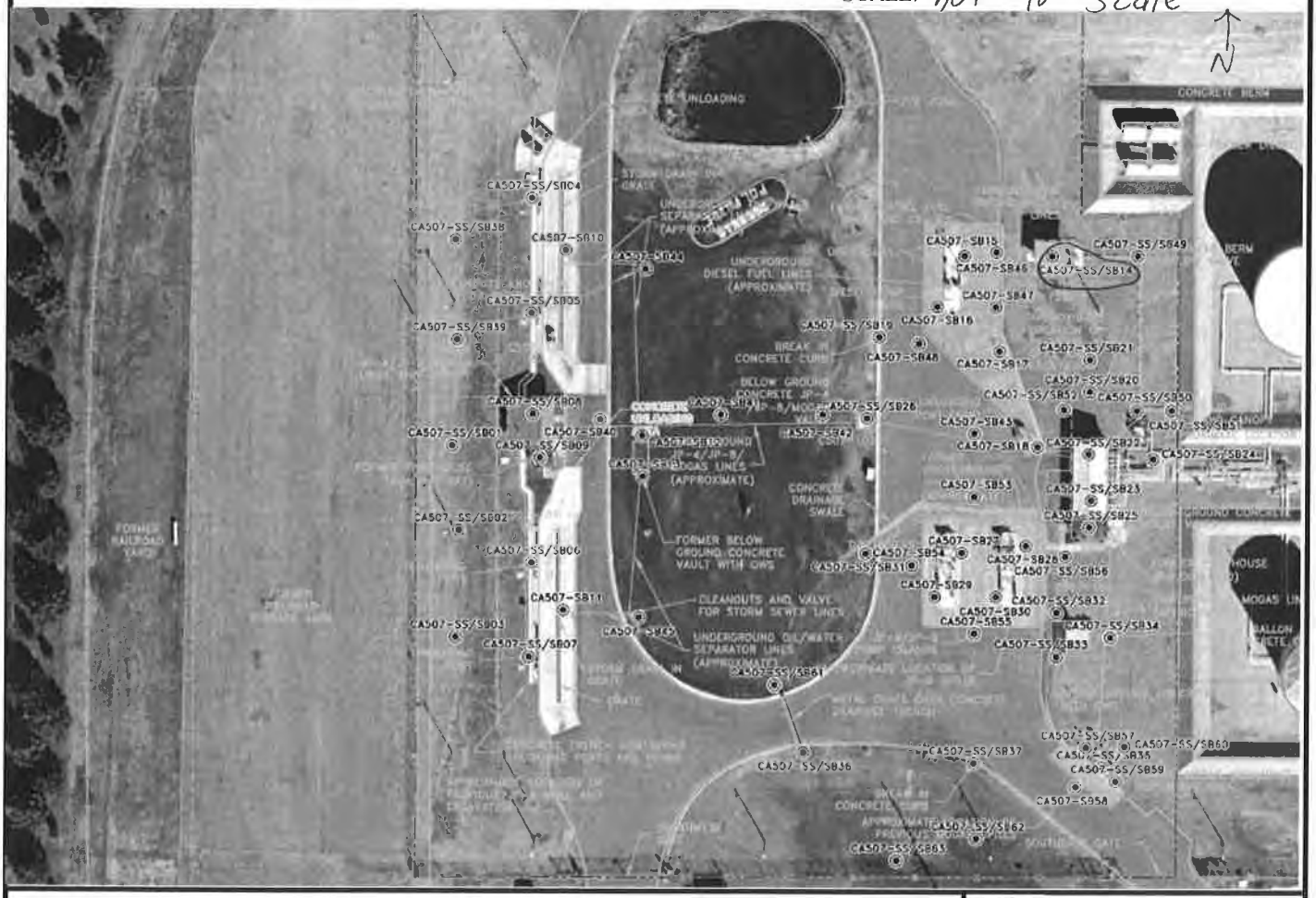
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4 + MS/MSD	—	Lead	BTEX + Naphthalene	TPH-GRO DRO ORO	Site Global Svcs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB14

HTRW DRILLING LOG

HOLE NO. CA507-SB14

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conrad

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Sandy SILT (ML) - Very stiff, dry, light brown low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG = ND		Surface Soil CA507-SS14-001 T=1235	PP=Pocket Pen PP=3.0	START TIME = 1238 Time (T) 1245 Recovery (R) 4.0/5.0
	1		HS = ND		CA507-SB14-004		
	2					PP=3.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	Becomes light tan with calcareous nodules, stiff					
	4					PP=1.5	
					NR		
	5		HS = ND		CA507-SB14-010	PP=1.5	T=1255 R=5.0/5.0
		with increasing sand					
	6						
	7					PP=2.0	
	8						
	9						
		calcareous nodules					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB14

HTRW DRILLING LOG

HOLE NO. CA507-SB14

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conrad

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Same: Sandy SILT (ML) - Stiff & light tan, moist/low plastic. Becomes Hard	HS=ND		CA507SB14-015 + MS/MSD	PP=4.0	T=1305 R=5.0/5.0
	11						
	12					PP=4.0	
	13					PP=4.0	
	14						
		SAND (SP) - loose, moist, light brown, fine grained					
	15	Bottom of Boring 15'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB14

HTRW DRILLING LOG

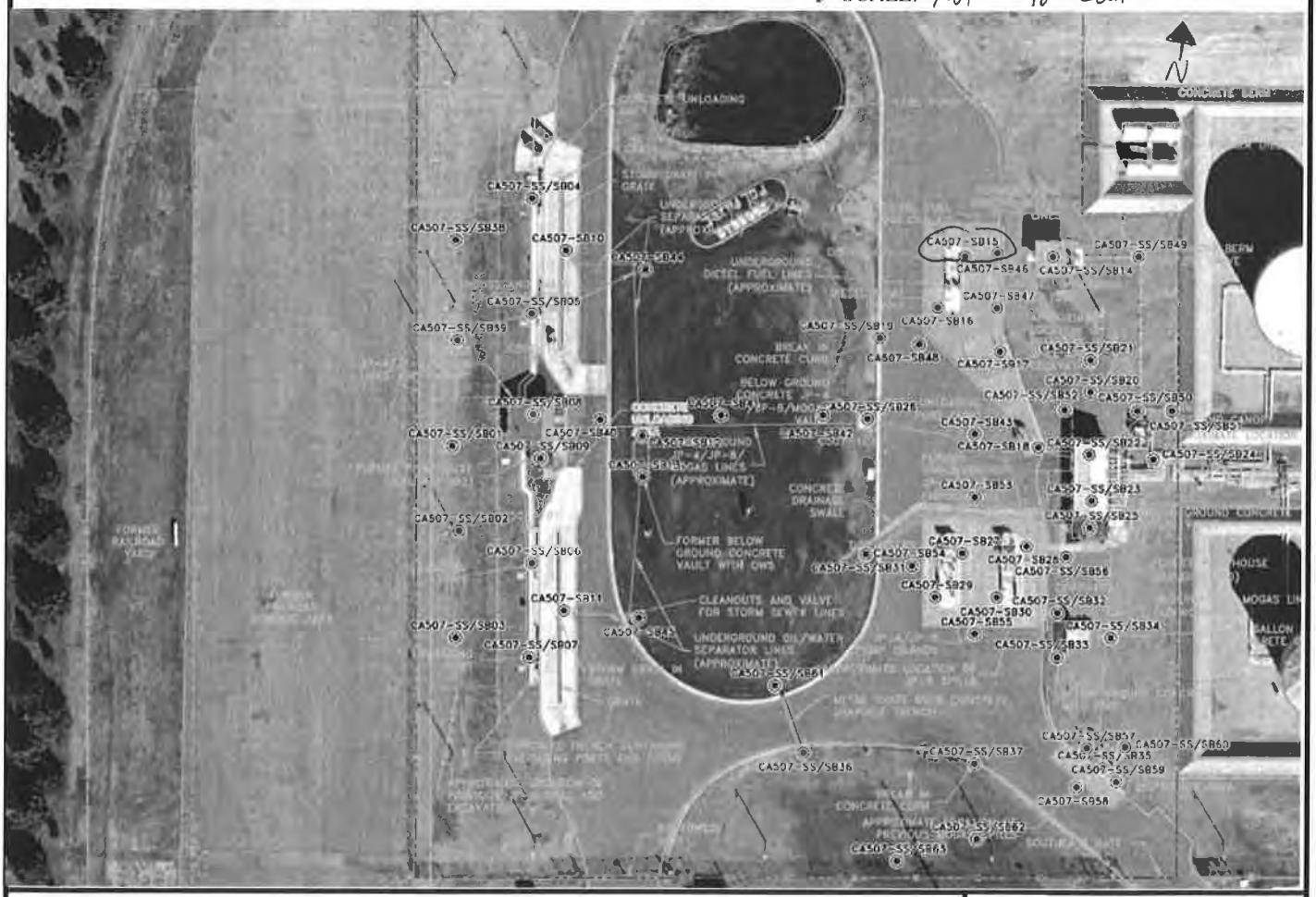
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB15
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve		8. HOLE LOCATION: 1239376.39 N 848027.026 E
		9. SURFACE ELEVATION: 4317.5 ft above MSL
		10. DATE STARTED: 2-11-13 / 11. DATE COMPLETED: 2-11-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	–	–	–

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
1 B + MS/MSD	–	Lead	TPH GRO, DRO, ORO	BTEX trimethylbenzene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	–	–	James Cordi

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB15

HTRW DRILLING LOG

HOLE NO. CA507-SB15

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO c	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=ND		CA507-SB -005	PP=Pocket Pen	START TIME = 1344 Time (T) 1350 Recovery (R) 5.0/5.0
	1	Sandy SILT (ML) – Hard, moist, brown, medium plastic				PP=4.0	Fill Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2						
	3	Becomes very stiff				PP=3.0	
	4						
		Becomes light tan					
	5		HS=35.0		CA507-SB -010	PP=2.5	T=1357 R=5.0/5.0
	6	Becomes Brown					
	7					PP=2.5	
	8	Becomes light tan					
	9					PP=2.5	Native soil
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB15

HTRW DRILLING LOG

HOLE NO. CA507-SB15

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same: Sandy SILT(ML) - very stiff, moist, light tan, medium plastic	HS=105		CA507-SB15 -015 + MS/MSD	PP=3.0	T=1403 R=5.0/5.0
	11						
	12					PP=2.5	
	13						
	14					PP=3.0	
	15		HS=4.1		CA507-SB15 -020		T=1427 R=5.0/5.0
	16					PP=2.0	
	17					PP=2.0	
	18						
	19					PP=2.5	
	20	Bottom of Boring 20 ft					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB15

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8753-TO-0169		HOLE NUMBER: CA507-SB16
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 1/8 inch dia Sample sleeve		8. HOLE LOCATION: 1239348.217N 848012.174E
		9. SURFACE ELEVATION: 4317.5 ft above msl
		10. DATE STARTED: 2-11-13 / 11. DATE COMPLETED: 2-11-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

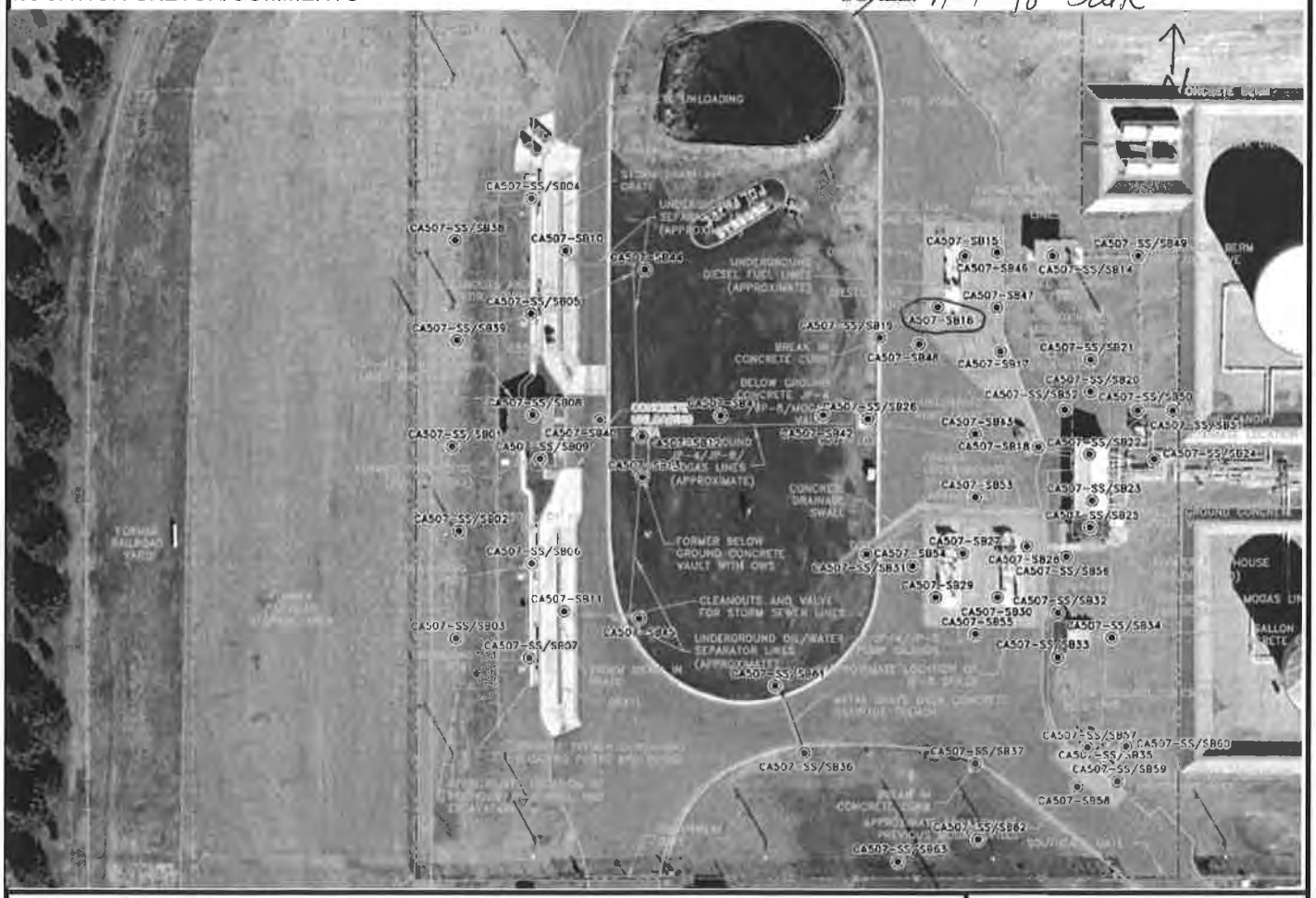
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 + MS/MSD	—	Lead	Btex + naphthalene	TPH-GRO, DRO, ORO	Cne related Svocs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Cordo

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB16

HTRW DRILLING LOG

HOLE NO. CA507-SB16

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect Bkg= ND HS=2.6		CA507-SB16-005	PP=Pocket Pen ~~PP=2.0~~	START TIME = 1450 Time (T) 1500 Recovery (R) 5.0/5.0
	1	Sandy SILT (ML) - very stiff, moist, brown, low plastic				PP=3.0	
	2					PP=2.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
						PP=2.0	
	4						
	5		HS=2.0		CA507-SB16-010		T=1507 R=5.0/5.0
						PP=2.0	
	6						
	7					PP=3.0	
	8						
	9	Becomes light tan with decreasing sand				PP=2.5	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB16

HTRW DRILLING LOG

HOLE NO. CA507-SB16

PROJECT: e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conrad

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same: Sandy SILT (ML) – Very stiff, moist, light brown, medium plastic	HS=23		CA507-SB16-015		T=1573 R=5.0/5.0
					+MS/MSD	PP=2.5	
	11						
	12					PP=2.5	
	13						
	14					PP=3.0	
		SAND (SP) – loose, moist, light brown, fine grained					
	15	Bottom of Boring 15'					
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB16

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA507-SB17	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 in dia sample sleeve	8. HOLE LOCATION: 1239323.715N 848046.505E	
	9. SURFACE ELEVATION: 4317.4 ft above MSL	
	10. DATE STARTED: 2-11-13	11. DATE COMPLETED: 2-11-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

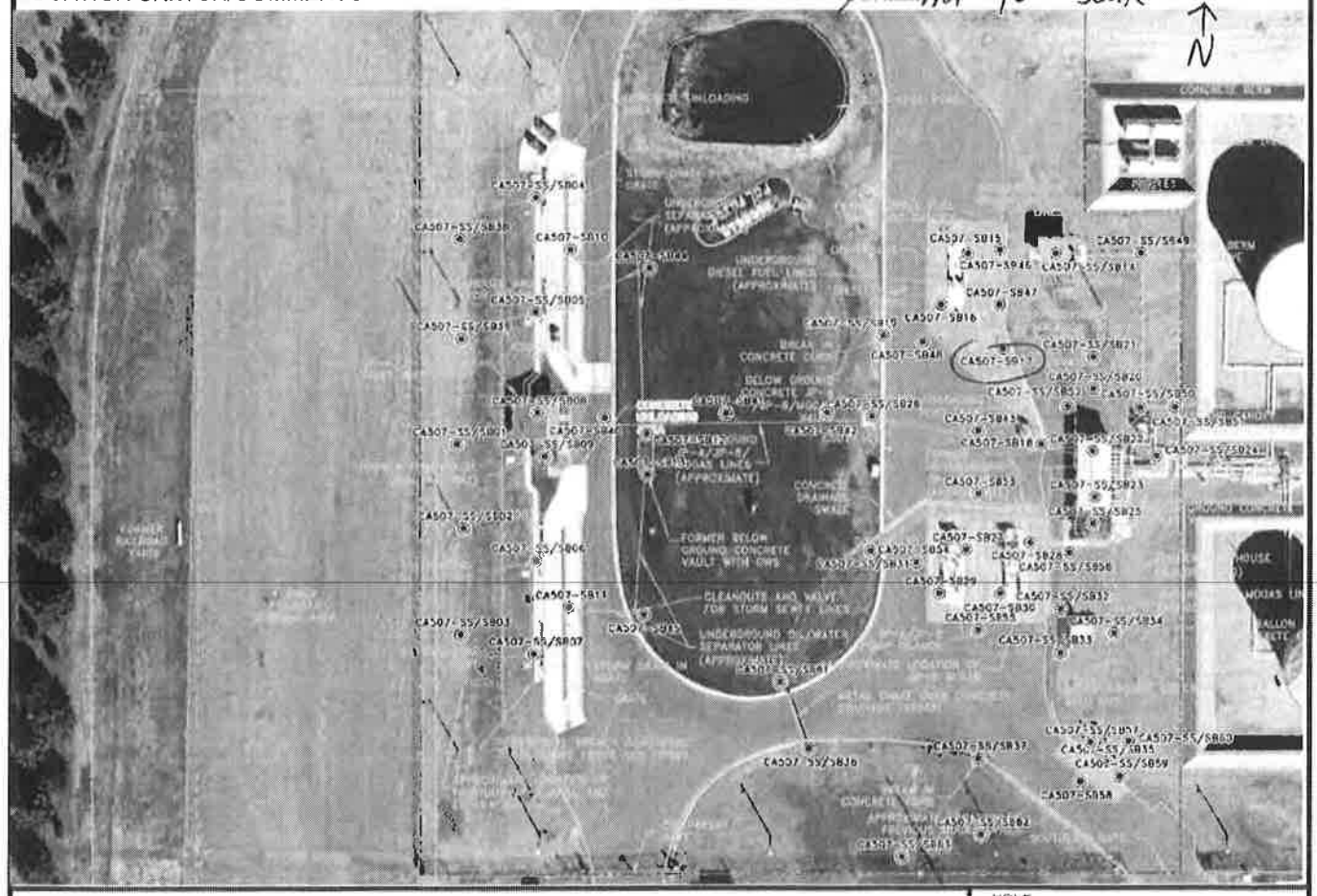
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	—	Lead	TPH-GRO, ORO, DRO	BTEX + napthalene	Site related SVOC PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Conradi

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB17

HTRW DRILLING LOG

HOLE NO. CA507-SB17

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=1.6		CA507-SB17-005	PP=Pocket Pen PP=3.0	START TIME = 1257 Time (T) 1303 Recovery (R) 5.0/5.0 Fill
	1	Sandy SILT (ML) - stiff, moist, brown, medium plastic					
	2					PP=2.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
	4	Becomes light brown				PP=2.5	
	5		HS=4.5		CA507-SB17-010		T=1311 R=5.0/5.0
	6	Becomes very stiff				PP=3.0	
	7					PP=3.0	
	8						
	9					PP=3.5	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB17

HTRW DRILLING LOG

HOLE NO. CA507-SB17

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same: Sandy SILT (ML) - Very stiff, moist, tan, medium plastic	Hs=7.2		CA507-SB17-015	PP=3.0	T=1317 R=5.0/5.0 Native Soil
	11						
		with increasing sand					
	12					PP=2.5	
	13						
	14					PP=2.5	
		Bottom of Boring 15ft					
	15						
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB17

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB18
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 inch dia sample sleave	8. HOLE LOCATION: 1239270.773N 848067.535E	
	9. SURFACE ELEVATION: 4317.8 ft above msl	
	10. DATE STARTED: 2-11-13	11. DATE COMPLETED: 2-11-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

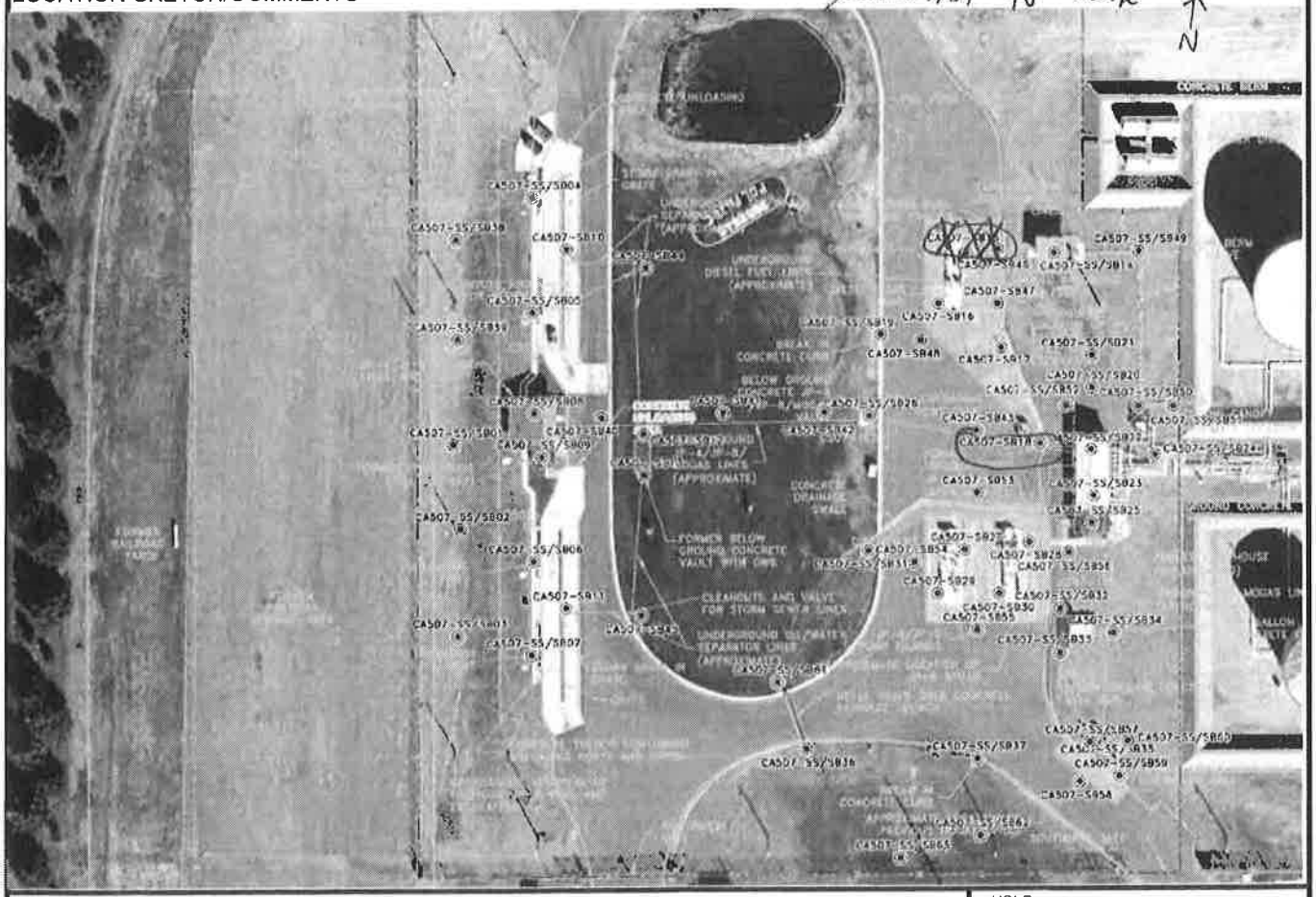
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 + MS/MSD	–	Lead	TPH-GRO, DRO, ORO	BTEX + naphthalene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	–	–	James Couch

LOCATION SKETCH/COMMENTS

SCALE: Not to scale

N



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB18

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA507-SB18

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conrad

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
		Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Not Detect		CA507-SB18-001	PP=Pocket Pen	START TIME = 1215
		Sandy SILT (ML) - very stiff, moist, brown, medium plastic	BKG=ND HS=1.5			PP=3.0	Time (T) 1220 Recovery (R) 4.0/5.0
	1						
	2					PP=3.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	with increasing sand					
	4			NR			
	5		HS=1.9		CA507-SB18-010	PP=3.0	T=1226 R=5.0/5.0
	6						
	7					PP=3.0	
	8						
	9					PP=3.0	
	10	with decreasing sand					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB18

HTRW DRILLING LOG

HOLE NO. CA507-SB18

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conrad

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Same: SILT(ML) - very stiff, moist, light tan medium Plastic	Hs=1.3		CA507-SB18 -015	PP=3.0	T=1235 R=5.0/5.0
	11				+MS/ MSD		
	12					PP=3.0	
	13						
		SAND(SP) - loose, moist, light brown, fine grained					
	14	Becomes Hard with increasing clay, moisture				PP=>4.0	
	15	Bottom of Boring 15'					
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB 18

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB19
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 in dia Sample Sleeve		8. HOLE LOCATION: 1239331.202N 847980.726 E
		9. SURFACE ELEVATION: 4317.4 ft above msl
		10. DATE STARTED: 2-6-13 / 11. DATE COMPLETED: 2-6-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 10 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	—	Lead	TPH-GRO, DRO, GRO	Btex + Naphthalene	PCBs Site related Svocs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite chips	X	—	—	James Conde

LOCATION SKETCH/COMMENTS — SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB19

HTRW DRILLING LOG

HOLE NO. CA507-SB19

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO. (Surface Soil)	BLOW COUNTS	REMARKS h.
		SAND(SP)-loose, dry, brown, fine grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=ND		CA507-SB19-001 Time: 1500 CA507-SB19-003	PP=Pocket Pen	START TIME = 1500 Time (T) 1515 Recovery (R) 2.5/5.0
	1						
		CLAY(CL)- Hard, moist, dark brown, medium Plastic					Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2					PP=>4	
	3						
	4				NR		
	5						
		Sandy SILT (ML)-stiff, moist, tan, low Plastic	HS=ND		CA507-SB19-010		T=1525 R=5.0/5.0
	6					PP=1.5	
	7					PP=1.5	
	8						
	9					PP=1.5	
	10	Bottom of Boring 10'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB19

HTRW DRILLING LOG

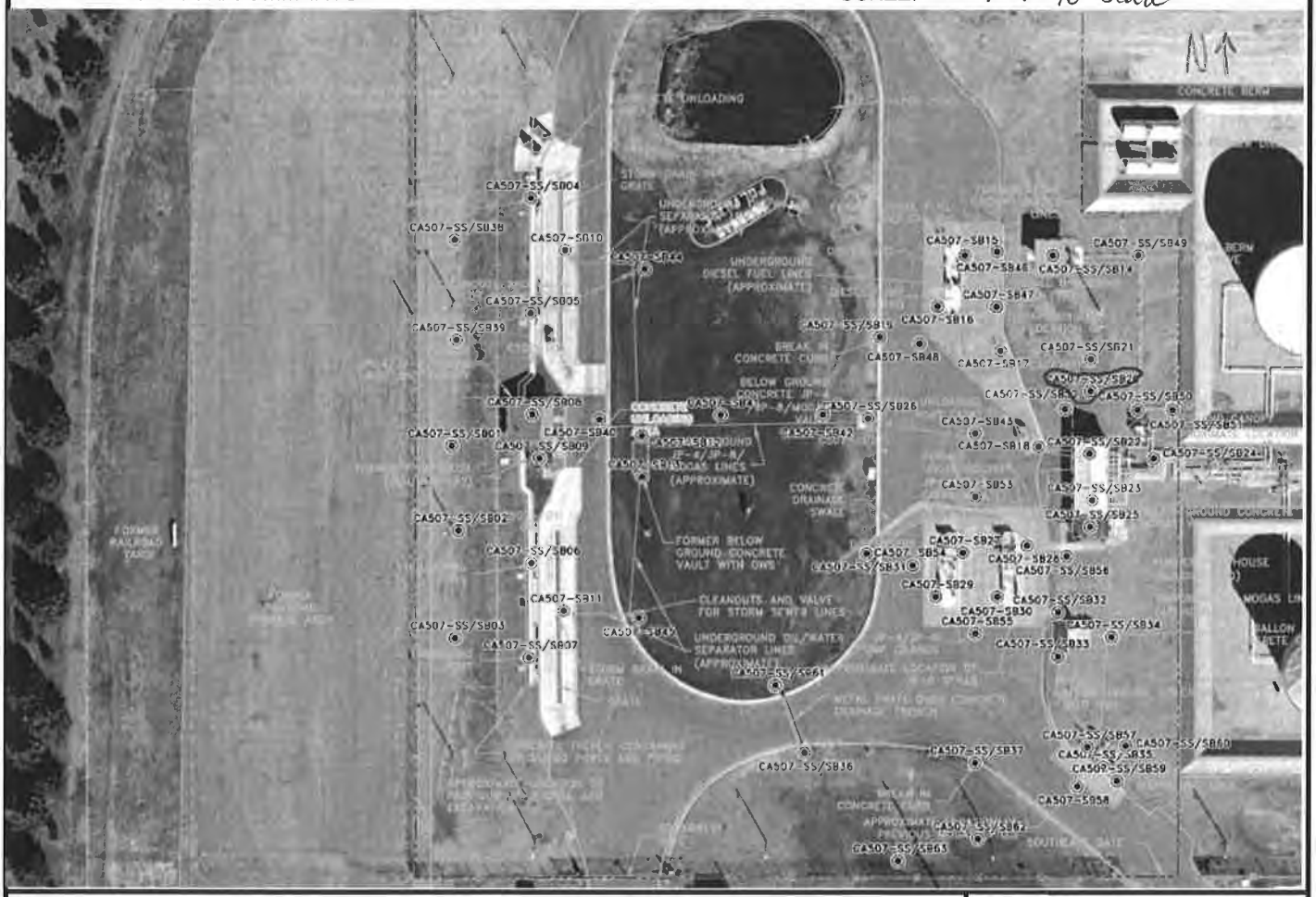
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA507-SB20	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1239301.409N 848095.815E	
	9. SURFACE ELEVATION: 4317.7 ft above MSL	
	10. DATE STARTED: 2-13-13	11. DATE COMPLETED: 2-13-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTRIBUTED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	—	lead	TPH GRO, DRO, ORO	BTEX+Naphthalene	Site-Related SVOCs PLBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Mitch Clem

LOCATION SKETCH/COMMENTS SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB20

HTRW DRILLING LOG

HOLE NO. CA507-SB20

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Sandy SILT (ML) – Stiff, moist, brown, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG = ND HS = 0.2		Surface soil: CA507-SS20-001 Time = 1342 CA507-SB20-004	PP=Pocket Pen PP=2.0	START TIME = 1345 Time (T) = 1350 Recovery (R) = 4.2/5.0 Fill
	1						
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
						PP=2.0	
	3						
		0.3' of fine, brown sand					
	4						
					NR		
	5		HS = 0.4		CA507-SB20-010		T = 1357 R = 4.6/5.0
						PP = 1.5	
	6	Becomes mottled light tan and reddish brown, with calcareous nodules					
	7					PP=2.0	
	8	With abundant calcareous nodules					
		Becomes reddish brown					Becomes native soil
	9						
					NR		
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB20

HTRW DRILLING LOG

HOLE NO. CA507-SB20

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: ~~Silty~~ Sandy SILT (ML) - Stiff, moist, reddish brown, low plastic	HS=0.2		CA507-SB20-015		T-1402 R=5.0/5.0
		Becomes ~~Very~~ stiff, light brown, with no calcareous nodules				PP=2.5	
	11						
	12						
	13	Becomes light tan, with abundant calcareous nodules					
	14					PP=3.0	
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB20

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB21
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 3/4 inch dia sample sleeve		8. HOLE LOCATION: 1239319.115N 848095.815E
		9. SURFACE ELEVATION: 4317.7 ft above MSL
		10. DATE STARTED: 2-10-13 / 11. DATE COMPLETED: 2-10-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 20 ~~15~~ ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

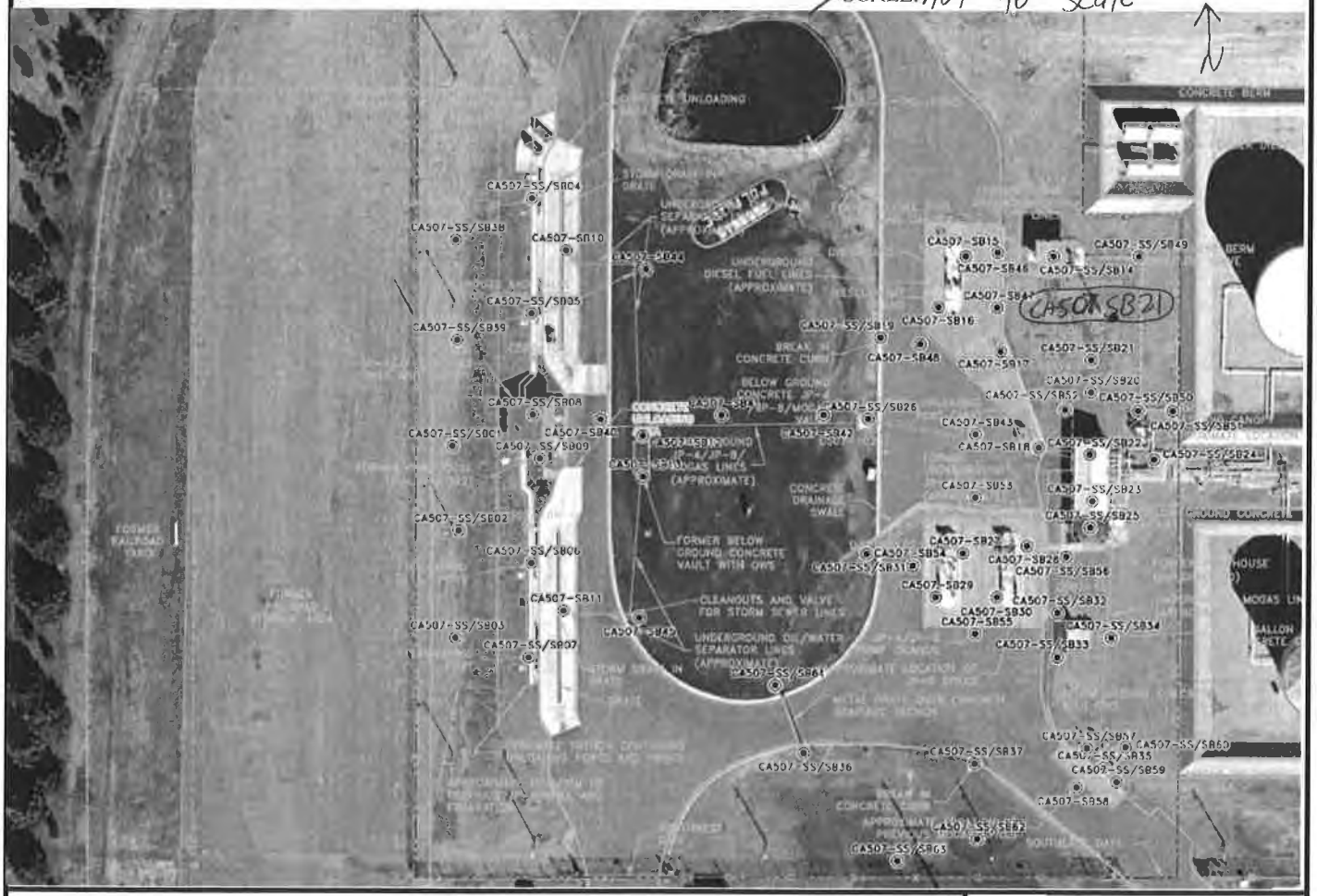
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 ~~[illegible]~~	—	Lead	TPH-GRO DRO ORO	BTEX + Naphthalene	See related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	James Conell

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB21

HTRW DRILLING LOG

HOLE NO. CAS07-SB21

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conrad

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Gravelly SAND (SP) loose, dry, light brown fine grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=ND		surface soil CAS07-SS21-001 T=1245 CAS07-SB21-004	PP=Pocket Pen	START TIME = 1247 Fill Time (T) 1257 Recovery (R) 4.0/5.0
	1	Sandy SILT (ML) - Hard, moist, light brown medium plastic				PP=4.0	
	2	Becomes very stiff, low plastic				PP=3.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
		Becomes light tan				PP=4.0	Native soil
	4					~~PP=4.0~~	
					NR		
	5		HS=35.0		CAS07-SB21-010		T=1305 R=5.0/5.0
						PP=3.0	
	6	with calcareous nodules					
	7	Becomes Hard, med plastic				PP=>4.0	
	8						
	9					PP=>4.0	
		with calcareous nodules					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CAS07-SB21

HTRW DRILLING LOG

HOLE NO. CA507-SB21

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME Sandy SILT (ML) - light tan, moist, medium plastic	HS=11.5		CA507-SB21 -015	PP=2.5	T=1315 R=5.0/5.0
	11	Becomes very stiff, with increasing sand					
						PP=2.0	
	12	Becomes stiff					
	13						
	14					PP=2.0	
	15		HS=ND		CA507-SB21 -020		T=1345 R=5.0/5.0
	16					PP=2.0	
	17						
						PP=2.0	
	18						
	19					PP=2.0	
	20	Bottom of Boring 20ft					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB21

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8763-TO-0169		HOLE NUMBER: CA507-SB22
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe MacroCore, 1 5/8" diameter; sample sleeve	8. HOLE LOCATION: 1239266.807N 848095.354E	
	9. SURFACE ELEVATION: 4318.1 ft above msl	
	10. DATE STARTED: 2-13-13	11. DATE COMPLETED: 2-13-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4+ dup	—	Lead	TPH-DRO ORO, GRO	BTEX + Naphthalene	Site-Related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite	X	—	—	Mitch Clair

LOCATION SKETCH/COMMENTS — SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB22

HTRW DRILLING LOG

HOLE NO. CA507-SB22

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAND(SP) - Loose, dry, red, fine	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface soil: CA507-SS22-001 Time: 1415 + dup	PP=Pocket Pen	START TIME = 1418 Fill Time (T) = 1422 Recovery (R) = 4.0/5.0
	1	Sandy SILT(ML) - Hard, moist, brown, low plastic	BKG=ND HS=0.2		CA507-SB22-004	PP=4.5	
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	Becomes, stiff, light tan, with trace sand and abundant calcareous nodules				PP=2.0	
	4				NR		
	5		HS=ND		CA507-SB22-010		T=1430 R=4.7/5.0
		0.4' of fine, brown sand					
	6	Becomes Very stiff, brown, with no calcareous nodules				PP=3.5	
	7						
	8					PP=3.0	
	9	Becomes light tan, with abundant calcareous nodules					Native soil
	10				NR		

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB22

HTRW DRILLING LOG

HOLE NO. CA507 - SB22

PROJECT .e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME: ~~Silty SA~~ Sandy SILT (ML) - Very stiff, moist, light tan, low plastic	HS = 0.1		CA507-SB22-015	PP=2.5	T=1438 R=5.0/5.0
	11	0.3' of light brown, fine sand					
	12					PP=3.0	
	13	Silty SAND (SM) - Loose, dry, light brown, fine grained					
	14						
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507 - SB22

HTRW DRILLING LOG

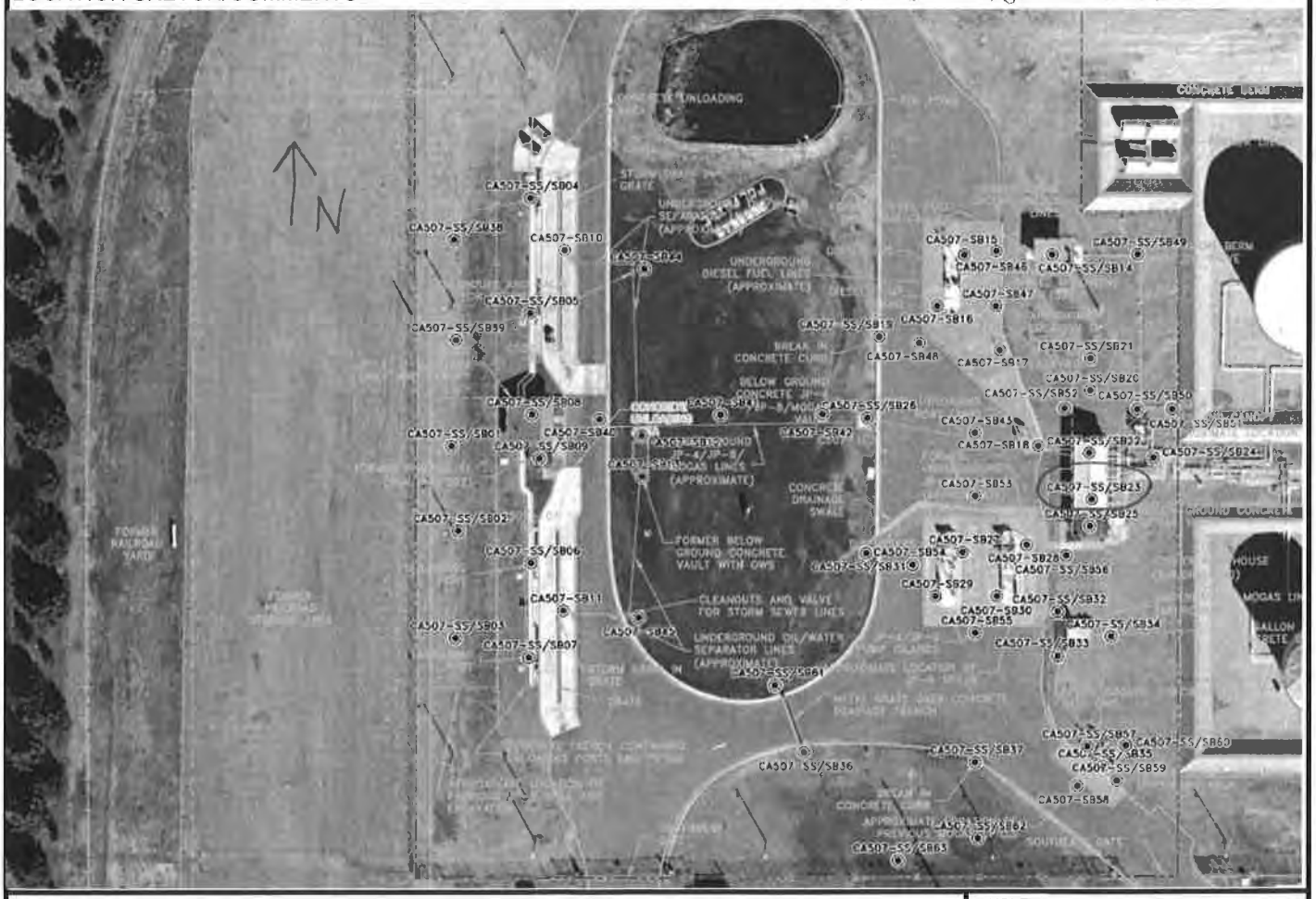
DISTRICT: AFCEC-FA8903-08-D-8383-TO-0169		HOLE NUMBER: CA507-SB23
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA507-SB23, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler with a 1 5/8" diameter sample liner	8. HOLE LOCATION: 1239241.133N 848096.836 E	
	9. SURFACE ELEVATION: 4318.1 ft above MSL	
	10. DATE STARTED: 2-13-13 @ 0820	11. DATE COMPLETED: 2-13-13 @ 0853
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 15 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	BTEX + Naphthalene	Lead	Site Specific SVOCs	TPH-GRO/DRO/ORO, PCBs		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS — SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB23

HTRW DRILLING LOG

HOLE NO. CA507-SB23

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [signature]

SHEET 1 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND with GRAVEL (SM-GP)- loose, dry, reddish brown, fine sand and gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND FS=ND		CA507-SS23-001 @ 0815	PP=Pocket Pen	START TIME = 0820 Time (T) Recovery (R)
	1	Sandy SILT (ML)- Stiff, dry, dark brown, Slight plasticity, very fine sand				PP=3.5	T=0835 R=5.0'/5.0' Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2		HS=ND		CA507-SB23-005		BTEX, TPH-GRO Collected from the bottom of the sample interval.
	3					PP=3.0	
	4	Silty SAND(SM) - loose, dry, pale brown, very fine grain					
	5						
	6	SILT (ML) - Medium Stiff, dry, pale orangish-tan with some reddish-brown fine sand, Slight Plasticity, Calcareous			CA507-SB23-010	PP=1.5	T=0844 R=5.0'/5.0'
	7		FS=ND HS=ND				
	8					PP=2.0	
	9	Becomes pale tannish-brown, trace fine caliche nodules					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB23

HTRW DRILLING LOG

HOLE NO. CA507-SB23

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Lee

SHEET 3 OF 3

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	Same As Above					
		SILT (ML) - Stiff, dry, pale tannish brown, slight plasticity, trace fine caliche nodules, trace fine sand				PP=2.5	
	11						T=0853 R=5.0'/5.0'
			FS=ND		CA507-SB23-015		
	12		HS=ND			PP=2.0	
	13						
		Hardens to Very Stiff				PP=4.0	
	14						
	15	Bottom of Boring @	15.0 ft	BGS			END TIME =0853
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB23

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB24
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: New Mexico, Cannon AFB
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve		8. HOLE LOCATION: 1239264.174N 848130.420 E
		9. SURFACE ELEVATION: 4318.1 ft above msl
		10. DATE STARTED: 2-13-13 / 11. DATE COMPLETED: 2-13-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4 + dup	—	Lead	Btex + naphthalene	TPH-GRO, DRO, ORO	site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Cerdi

LOCATION SKETCH/COMMENTS

SCALE: not to Scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB24

HTRW DRILLING LOG

HOLE NO. CA507-SB24

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conrad

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAND(SP)- loose, moist, light brown, fine grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		Surface Soil CA507-SS24-001 T=1055 + dup	PP=Pocket Pen	START TIME = 1050 Time (T) 1100 Recovery (R) 4.6/5.0
	1	Sandy SILT(ML)-Very stiff, moist, light brown, low plastic	HS=1.6		CA507-SB24-005	PP=3.5	Fill Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2						
	3					PP=3.0	
	4	Becomes light tan					
	5				NR		
			HS=0.6		CA507-SB24-010		T=1114 R=5.0/5.0
	6					PP=2.5	
	7	Becomes light brown, with some calcareous nodules					
	8					PP=2.5	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB24

HTRW DRILLING LOG

HOLE NO. CA507-SB24

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same: Sandy SILT(ML) Very stiff, moist, light brown, low plastic	HS=0.3		CA507-SB24-015		T=1130 R=5.0/5.0
	11					PP=4.0	
		Silty CLAY(CL) - Hard, moist, brown, low plastic					
	12						
	13						
		SILT (ML) - Hard, moist, light tan, low plastic				PP=4.0	
	14						
	15	Bottom of Boring 15'					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB24

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8283-TO-0169	HOLE NUMBER: CA507-SB25	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA507-SB25, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core sampler with a 1 5/8" diameter sample liner	8. HOLE LOCATION: 1239226.329 N 848095.825 E	
	9. SURFACE ELEVATION: 4318.1 ft (above MSL)	
	10. DATE STARTED: 2-13-13 @	11. DATE COMPLETED: 2-13-13 @ 1032
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater Not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 15 feet (ft) belowground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	BTEX + Naphthalene	Lead	Site Specific SVOCs	TPH-GRO/ORO/DRO	PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer [illegible]

LOCATION SKETCH/COMMENTS SCALE: NOT TO SCALE

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB25

HTRW DRILLING LOG

HOLE NO. CA507-SB25

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF SHEETS 3

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND (SM) and GRAVEL (GP)- loose, dry, reddish-brown, fine grain sand, fine gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		CA507-SS25-001 @ 0940	PP=Pocket Pen	START TIME = 1000 Time (T) Recovery (R)
	1	Sandy SILT (ML)-Very Stiff, dry, brown, slight plasticity, very fine sand					T=1008 R=5.0'/5.0'
	2				CA507-SB25-005	PP=4.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
			FS=ND HS=ND				
	3	Becomes Stiff				PP=2.0	TPH-GRO + BTEX Collected from the bottom of the sample interval
	4	Becomes Calcareous, medium Stiff, pale brownish-tan				PP=1.5	
	5						
		Becomes orangish-tan				PP=2.0	
	6						T=1019 R=5.0'/5.0'
			FS=ND HS=ND				
	7				CA507-SB25-010		
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB25

HTRW DRILLING LOG

HOLE NO. CA507-SB25

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	Same as Above Sandy SILT (ML) - Medium stiff, dry, orangish-tan, slight plasticity, fine sand, fine caliche nodules				PP=1.0	
	11	Increasing Sand content			CA507-SB25-015	PP=1.5	
	12	SAND (SP) - loose, dry, pale orangish-brown, very fine to fine grain, trace silt, trace fine caliche nodules	FS=ND HS=ND				T=1032 R=5.0'/5.0'
	13						
	14						
	15	Bottom of Boring @ 15.0 ft bgs					END TIME =1032
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB25

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB26
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore; 1 5/8 inch dia sample sleeve		8. HOLE LOCATION: 1239286.292 N 847974.296 E
		9. SURFACE ELEVATION: 4317.7 (ft above msl)
		10. DATE STARTED: 2-6-13 / 11. DATE COMPLETED: 2-6-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 20 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 + dup	—	lead	TPH-GRO, DRO, ORO	Btex + Naphthalene	Site related svocs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite chips	X	—	—	James Cordi

LOCATION SKETCH/COMMENTS — SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507SB26

HTRW DRILLING LOG

HOLE NO. CA507-SB26

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAND (SP) - loose, moist, brown, fine grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface Soil CA507-SB26-001 T=1335	PP=Pocket Pen	START TIME = 1330 Fill Time (T) 1347 Recovery (R) 4.8/5.0
	1		BKG=ND HS=ND		CA507-SB26-004		
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
		Sandy CLAY (CL) - Very stiff, moist, brown, medium plastic				PP=3.5	
	3						
	4						
		Sandy SILT (ML) - medium stiff, moist, light tan medium plastic				PP=1.0	
	5			NR			
		Becomes Brown	HS=ND		CA507-SB26-010 + dup	PP=2.0	T=1400 R=5.0/5.0
	6						Native Soil
	7	Becomes very stiff				PP=2.5	
	8						
	9	Becomes light tan, medium stiff				PP=1.0	
	10						

HTRW DRILLING LOG

HOLE NO. CA507-SB26

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h.
		SAME Sandy SILT (ML) – medium stiff, moist, light tan, medium plastic	HS=ND		CA507-SB26-015		T=1425 R=5.0/5.0
	11	with Gravel					
	12	Becomes very stiff				PP=3.0	
	13					PP=3.0	
	14	SAND – loose, moist, light brown, fine grained					
	15		HS=ND		CA507-SB26-020		T=1433 R=5.0/5.0
	16	with Calcareous nodules				PP=2.5	
	17	Becomes stiff				PP=1.5	
	18						
	19						
	20	Bottom of Boring 20'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB26

HTRW DRILLING LOG

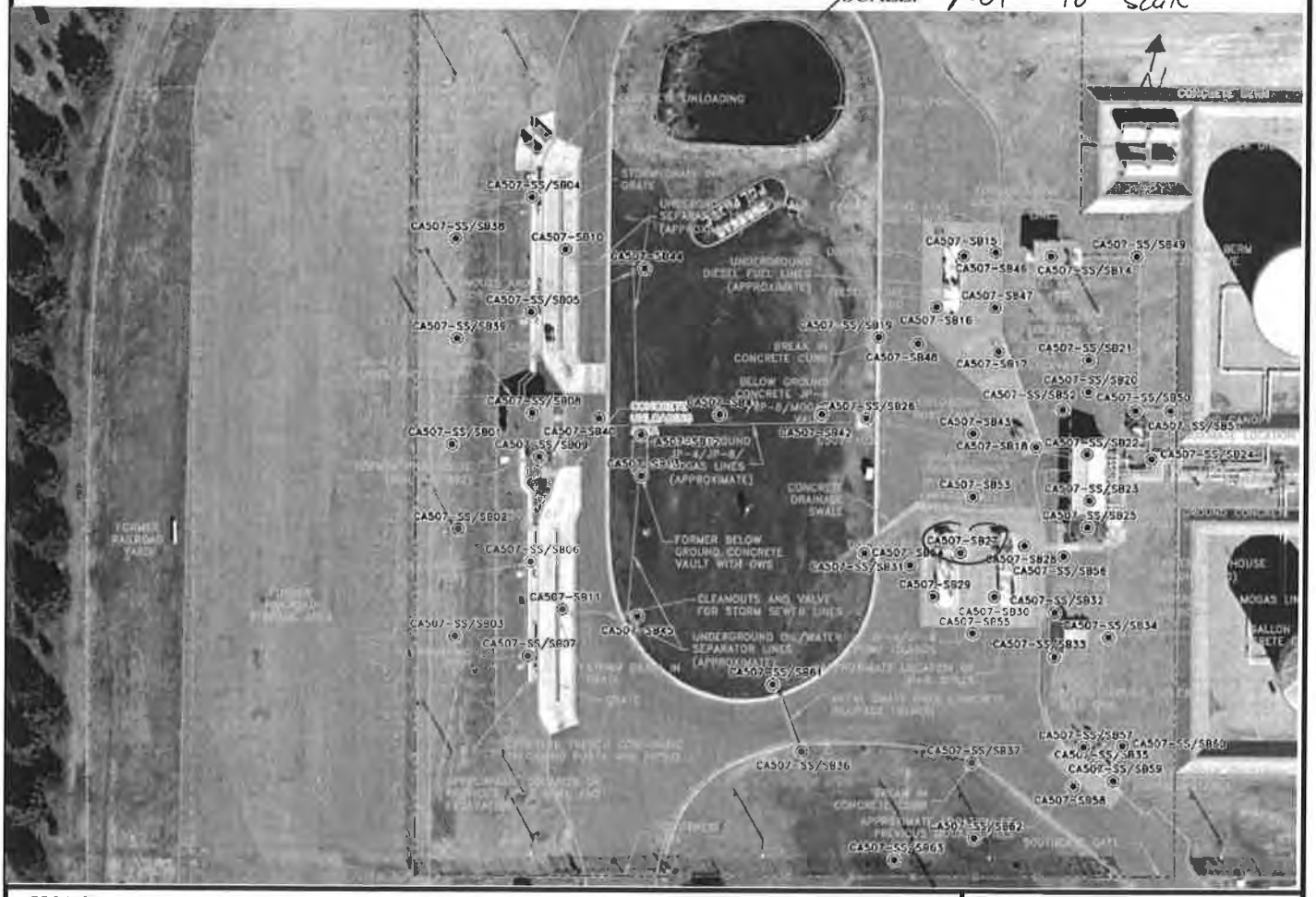
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB27
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 7/8 inch dia sample sleeve		8. HOLE LOCATION: 1234211.998 N 848026.333 E
		9. SURFACE ELEVATION: 4317.51 ft above MSL
		10. DATE STARTED: 2-12-13 / 11. DATE COMPLETED: 2-12-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	—	Lead	TPH-GRO, ORO, DRO	Btex + naphthalene	site related SVOCs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—		James Conrad

LOCATION SKETCH/COMMENTS SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB27

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CAS07-SB27

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
		Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=0.9		CAS07-SB27 -005	PP=Pocket Pen P	START TIME =0758 Time (T) 0805 Recovery (R) 5.0/5.0
	1	Sandy SILT (ML) - Stiff, moist, light brown, low plastic.				PP=1.5	Fill
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
						PP=2.5	
	3						
	4	Becomes light tan, with decreasing sand				PP=2.5	Native Soil
	5		HS=3.3		CAS07-SB27 -010	PP=2.0	T=0812 R=5.0/5.0
	6						
	7					PP=2.0	
	8						
	9	SILT (ML) - Very stiff, moist, light tan, medium plastic				PP=2.5	
	10						

HTRW DRILLING LOG

HOLE NO. CA507SB27

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Some (SILT) - Very stiff, moist, light tan, med. plastic	HS=1.1		CA507-SB27-015	PP=3.0	T=0818 R=5.0/5.0
	11						
						PP=3.0	
	12	with Some SAND					
	13						
						PP=3.0	
	14						
	15	Bottom of Boring 15'					
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB27

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB28
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macro core 1 5/8 inc sample sleeve		8. HOLE LOCATION: 1239215.959N 848061.431E
		9. SURFACE ELEVATION: 4317.5 ft above MSL
		10. DATE STARTED: 2-12-13 / 11. DATE COMPLETED: 2-12-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15f		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 + MS/MSD	—	Lead	Btex + naphthalene	TPH-GRO, ORO, DRO	See related Sites DC13c	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Conaly

LOCATION SKETCH/COMMENTS — SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB28

HTRW DRILLING LOG

HOLE NO. CA507-SB28

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=3.7		CA507-SB28-005	PP=Pocket Pen	START TIME = 0836 Time (T) 0840 Recovery (R) 5.0/5.0
	1	Sandy SILT (ML) - Very stiff, moist, light tan, low plastic				PP=2.5	Fill Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2						
	3					PP=2.5	
	4					PP=2.5	
	5		HS=5.2		CA507-SB28-010	PP=2.5	T=0845 R=5.0/5.0
	6						
	7					PP=2.5	
	8	with decreasing Sand					
	9	SILT (ML) - Very stiff, moist, light tan				PP=3.0	native soil
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB28

HTRW DRILLING LOG

HOLE NO. CA507-SB28

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Some SILT (ML) - Very stiff, moist, light tan, low plastic, with increasing sand	HS=3.2		CA507-SB28-015 + MS/MSD	PP=2.5	T=0852 R=5.0/5.0
	11						
	12					PP=2.5	
	13	Some calcareous nodules					
	14					PP=3.0	
	15	Bottom of Boring 15 ft					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB28

HTRW DRILLING LOG

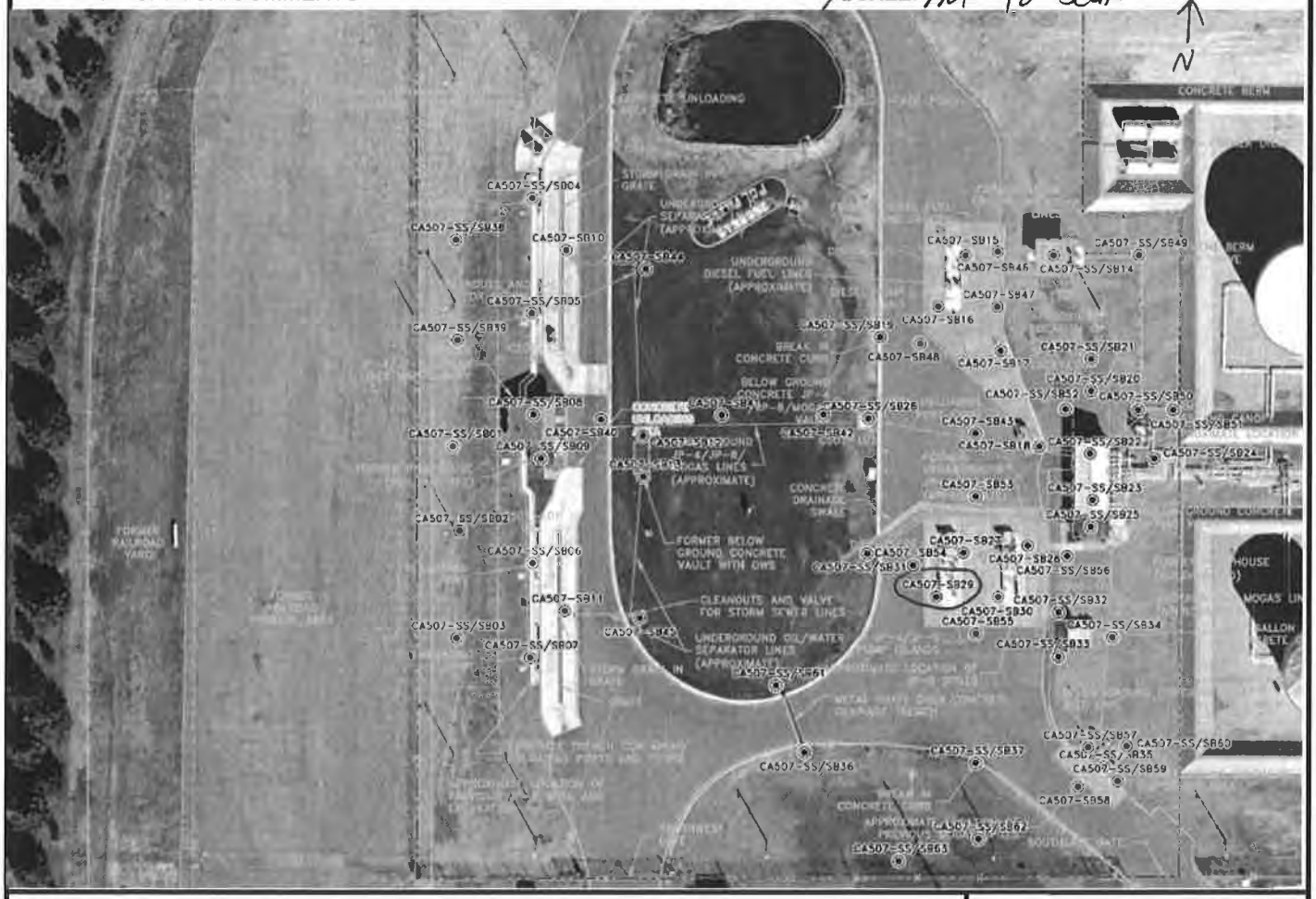
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA507-SB29	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 inch dia. Sample sleeve	8. HOLE LOCATION: 1239187.666 N 848011.473 E	
	9. SURFACE ELEVATION: 4317.5 ft above msl	
	10. DATE STARTED: 2-11-13	11. DATE COMPLETED: 2-11-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	—	Lead	Btex + naphthalene	TPH-GRO, DRO, ORO	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Condl

LOCATION SKETCH/COMMENTS SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB29

HTRW DRILLING LOG

HOLE NO. CA507-SB29

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		CA507-SB29-005	PP=Pocket Pen	START TIME = 1531 Time (T) 1540 Recovery (R) 5.0/5.0
	1	Sandy SILT (ML) - very stiff, moist, light brown, low plastic	HS=1.3			PP=3.0	Fill Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2						
	3					PP=2.5	
	4					PP=2.5	
	5		HS=0.6		CA507-SB29-010	PP=3.0	T=1545 R=5.0/5.0
	6						
	7					PP=3.0	
	8						
		Becomes light tan				PP=3.0	Native soil
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB29

HTRW DRILLING LOG

HOLE NO. CA507-SB29

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conrahi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same: Sandy SILT (ML) - Very stiff, moist, light tan, low plastic	HS=0.5		CA507-SB29 -015	PP=3.0	T=1555 R=5.0/5.0
	11						
	12					PP=3.0	
	13						
	14					PP=2.5	
	15	Bottom of Boring 15'					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB29

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA507-SB30	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve	8. HOLE LOCATION: 1239187.666N 848045.155E	
	9. SURFACE ELEVATION: 4317.5 ft above MSL	
	10. DATE STARTED: 2-12-13	11. DATE COMPLETED: 2-12-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 + MS/MSD	~	Lead	Blex trimethylbenzene	TPH-GRO, DRO, ORO	Site related SVOC PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Condi

LOCATION SKETCH/COMMENTS

SCALE: not to scale

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PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB30

HTRW DRILLING LOG

HOLE NO. CA507-SB30

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Concrete	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		CA507-SB30-005	PP=Pocket Pen	START TIME=0913 Time (T)0920 Recovery (R)5.0/5.0
	1	Sandy SILT (ML) - Very stiff, moist, light brown, low plastic	HS=1.7			PP=3.0	Fill Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2						
	3					PP=2.5	
	4	Becomes light tan				PP=2.0	
	5	SAND - loose, moist, light brown, fine grain	HS=1.5		CA507-SB30-010	PP=	T=0925 R=5.0/5.0
	6	Becomes light brown					
	7					PP=3.0	
	8	SAND - loose, moist, light brown, fine grain				PP=2.5	
	9	~~Lithic Sand~~ ~~SILT (ML)~~ - ~~Very stiff~~ Becomes dry, light tan, with calcareous nodules, with no sand					Native Soil
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB30

HTRW DRILLING LOG

HOLE NO. CA507-SB30

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h.
		Same SILT (ML) - ~~dry~~ stiff, dry, light tan, low plasticity, with calcareous nodules	HS=0.9		CA507-SB30-015	PP=2.5	T=0940 R=5.0/5.0
		with increasing moisture			+MS/MSD		
	11	with increasing sand					
	12					PP=2.5	
	13						
	14					PP=2.0	
		Bottom of Boring 15 ft					
	15						
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB30

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB31
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia. sonic sleeve	8. HOLE LOCATION: 1239204.948N 847999.035E	
	9. SURFACE ELEVATION: 4317.25 ft above msl	
	10. DATE STARTED: 2-8-13	11. DATE COMPLETED: 2-8-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 10 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

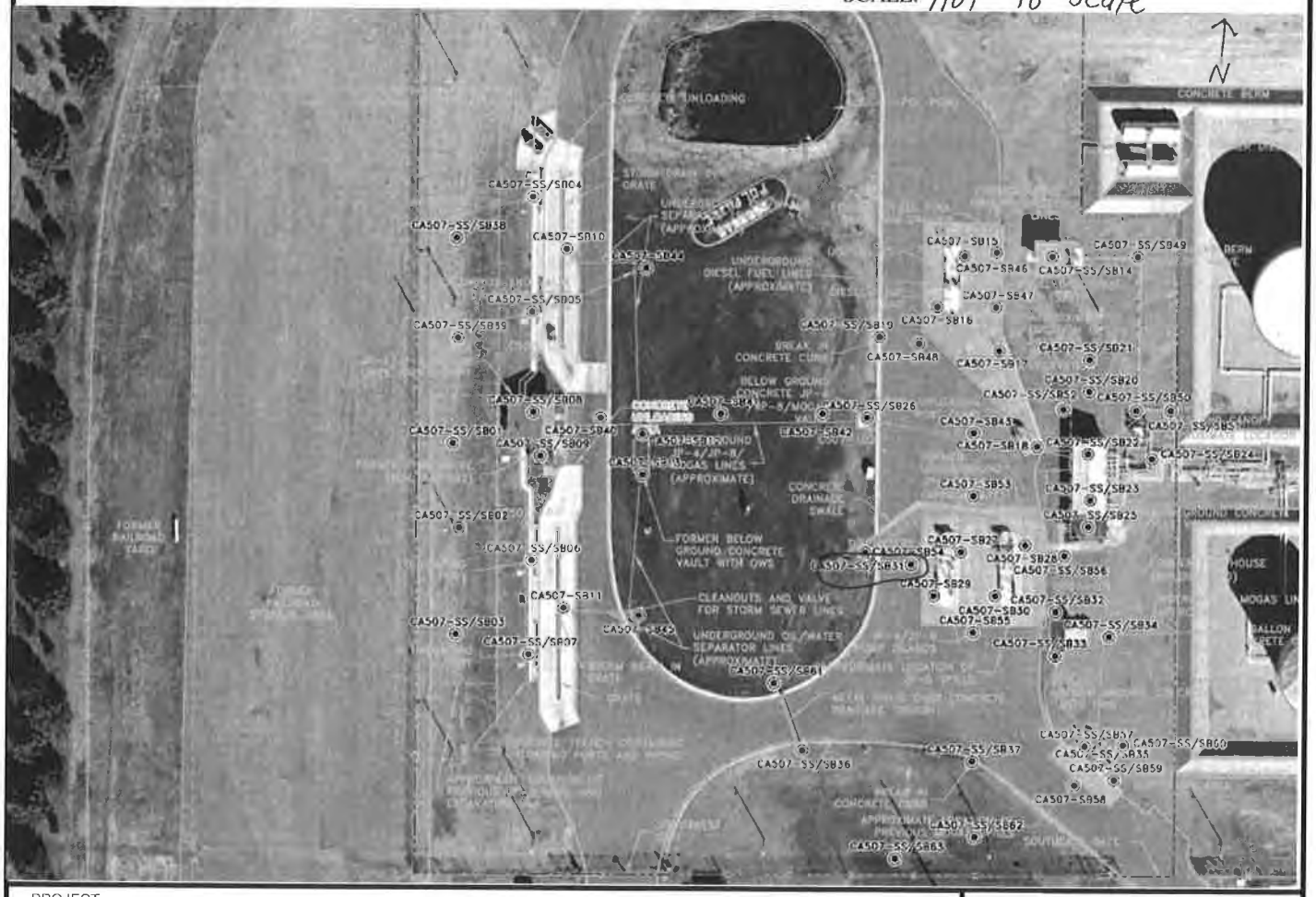
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2 + dup	—	Lead	TPH-GRO, DRO, ORO	BTEX + Naphthalene	Site related PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	James Cowell

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB31

HTRW DRILLING LOG

HOLE NO. CA507-SB31

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conrad

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA507-SB31 -005	PP=Pocket Pen	START TIME = 0805
		Sandy SILT (ML) - Stiff, moist, light brown, low plastic	BKG = ND HS = ND		+ dup	PP=1.5	Time (T) 0811 Recovery (R) 5.0/5.0 FAI
	1						
	2	Becomes very stiff				PP=3.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
	4	Becomes light tan.				PP=3.5	Becomes Native soil
	5						
			HS=ND		CA507-SB31 -010		T=0820 R=5.0/5.0
	6	Becomes Hard				PP=4.0	
	7					PP=>4.0	
	8						
		Becomes very stiff with increasing sand				PP=3.0	
	9						
	10	Bottom of Boring 10 ft					

HTRW DRILLING LOG

DISTRICT: AFCEC-TA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB32
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 inch dia sample sleeve	8. HOLE LOCATION: 1239179.097N 848078.4E	
	9. SURFACE ELEVATION: 4317.5 ft above msl	
	10. DATE STARTED: 2-13-13	11. DATE COMPLETED: 2-13-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 20'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

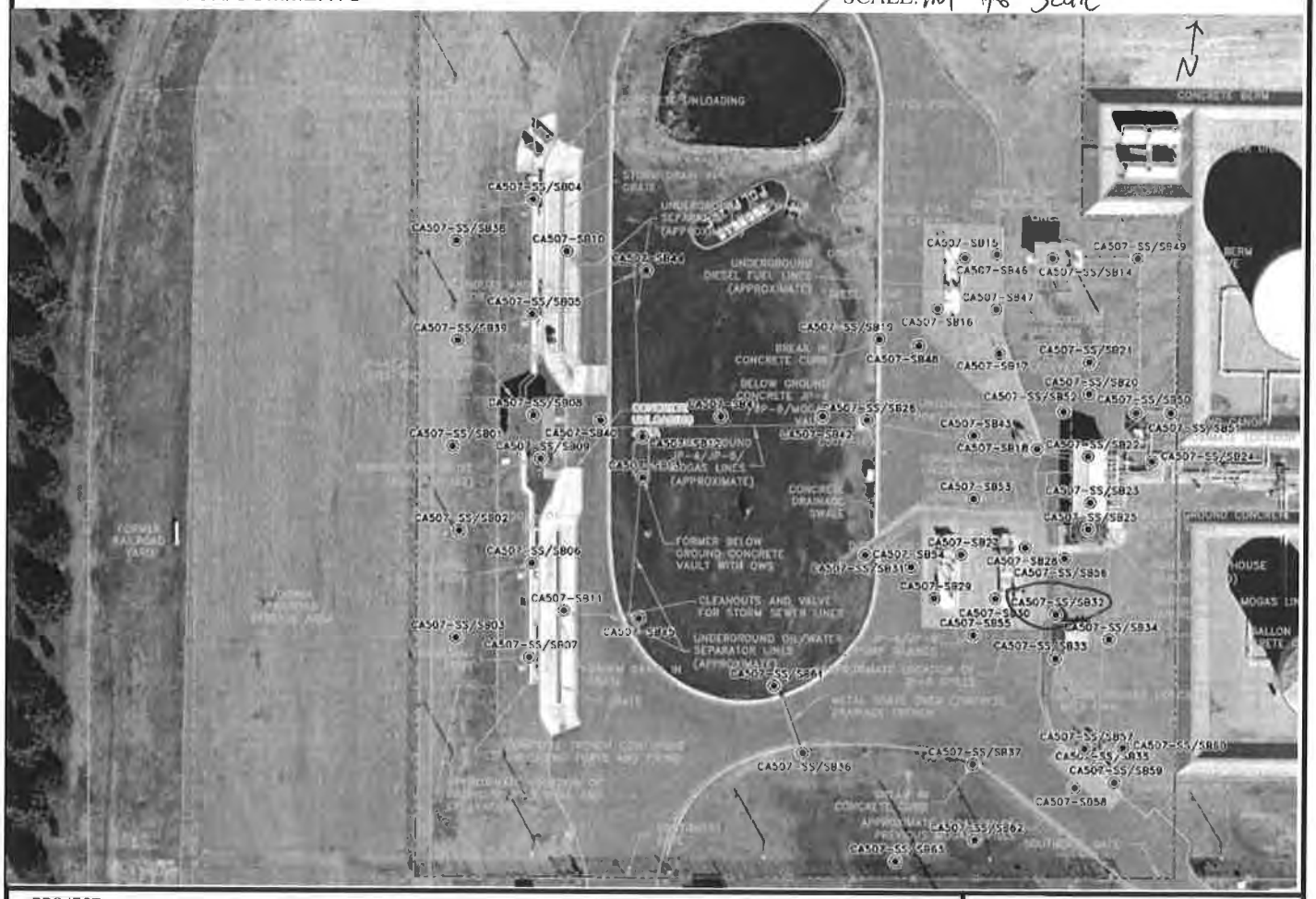
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	—	Lead	Btex trimethylene	TPH-GRO, ORO, DRO	site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Gnadi

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB32

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA507-SB32

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Silty SAND (SM) – Loose, dry, brown, fine, with trace gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=0.3		Surface Soil CA507-SS32-001 T= 0944 CA507-SB32-004	PP=Pocket Pen	START TIME 0910 Fill Time (T) 0920 Recovery (R) 4.0/5.0
	1	with increasing silt				PP=3.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2	Sandy SILT (ML) – Very stiff, dry, brown, low plastic					
	3	with trace fine gravel				PP=2.5	
	4		NR				
	5	Becomes light tan, with calcareous nodules	HS=0.3		CA507-SB32-009		T= 0927 R=4.0/5.0
	6	Becomes light brown, stiff				PP=1.5	
	7	Becomes brown					
		0.3' of fine, brown sand					
	8	0.3' of clay (brown + red)				PP=4.5	
	9		NR				
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB32

HTRW DRILLING LOG

HOLE NO. CA507-SB32

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME: Sandy SILT (ML) - ~~Medium~~ stiff, dry, brown, low plastic	HS = 1.1		CA507-SB32-015		T = 0934, R = 5.0/5.0
	11	with decreasing sand and increasing clay				PP = 1.5	
		With Clay					
	12	Becomes Very Stiff				PP = 2.5	
	13	With decreasing clay and increasing sand					
	14					PP = 3.5	
	15	Becomes Hard	HS = 0.8		CA507-SB32-020	PP = 4.5	T = 0943 R = 5.0/5.0
	16	] 0.3' of fine, brown sand					
	17	Becomes Stiff, light tan				PP = 2.0	
		] 0.7' of fine, brown sand					
	18						
		SAND (SP) - Loose, moist, reddish brown, fine					Native soil
	19						
	20	Bottom of Boring - 20' bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB32

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-09-D-8783-TO-0169		HOLE NUMBER: CA507-SB33
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve		8. HOLE LOCATION: 1239154.585N 848078.4
		9. SURFACE ELEVATION: 4317.5 ft above MSL
		10. DATE STARTED: 2-13-13 / 11. DATE COMPLETED: 2-13-13
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: N/A
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 20'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	—	Lead	TPH-GRO/DRO	BTEX+ Naphthalene	Site-related SVOCs PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Matt Cline

LOCATION SKETCH/COMMENTS — SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB33

HTRW DRILLING LOG

HOLE NO. CA507-SB33

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAND(SP) - Loose, moist, reddish brown, fine	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG= ND HS=0.7		surface soil: CA507-SS33-001 Time: 0955 CA507-SB33-004	PP=Pocket Pen	START TIME = 0957 Time (T) = 1000 Recovery (R) = 4.0/5.0 Fill
	1	Gravelly SILT(ML) - Very stiff, moist, brown, low plastic. Gravel is very angular and light tan colored				PP=3.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2					PP=2.5	
	3						
	4			NR			
	5		HS=0.4		CA507-SB33-010		T=1009 R=4.7/5.0
	6	0.4' of fine, red sand				PP=2.5	
		Becomes light brown, with no gravel and with sand					
	7					PP=2.5	
	8	with large calcareous nodules (up to 1.5" in diameter)					
	9	Becomes reddish brown					
	10			NR			

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB33

HTRW DRILLING LOG

HOLE NO. CA507-SB33

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME = Sandy SILT (ML) – Very stiff, moist, reddish brown, low plastic, with calcareous nodules	HS=3.1		CA507-SB33-015		T= 1016 R= 5.0/5.0
	11	Becomes light brown, with no sand or calcareous nodules				PP=2.0	
	12					PP=2.0	
	13						
	14	With trace calcareous nodules				PP=3.0	
	15		HS=3.7		CA507-SB33-020		T=1020 R=5.0/5.0
		Becomes medium plastic, with clay				PP=3.5	
	16	0-3' of silty clay					
	17	Becomes brown				PP=3.5	
	18						
		With trace calcareous nodules				PP=3.5	
	19						
	20	Bottom of boring – 20' bgs					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB33

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-09-D-8783-TO-0169		HOLE NUMBER: CA507-SB34
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve		8. HOLE LOCATION: 1239163.982N 848117.059E
		9. SURFACE ELEVATION: 4317.5 ft above msl
		10. DATE STARTED: 2-13-13 / 11. DATE COMPLETED: 2-13-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	–	–	–

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4 + dup	–	Lead	BTEX + naphthalene	TPH-GRO, DRO, ORO	site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	–	–	James Conradi

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB34

HTRW DRILLING LOG

HOLE NO. CA507-SB34

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: S Conrad

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Sandy SILT (ML) - Stiff, moist, light brown, low plastic, with calcareous nodules	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface Soil CA507-SS34 -001	PP=Pocket Pen	START TIME = 0830
					T=0833	PP=2.0	Time (T) = 0842 Recovery (R) = 3.0/5.0
			BKG = ND HS = 0.4		CA507-SB34 -004		
	1						
						PP=2.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2						
	3					PP=2.0	
	4				NR		
	5		HS=0.3		CA507-SB34 -010		T = 0850 R = 5.0/5.0
		Becomes very stiff			+ dup		
	6	calcareous nodules				PP=3.0	
	7						
						PP=2.5	
	8						
	9						
		Becomes stiff					
	10	Becomes light tan, with decreasing sand				PP=2.0	

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB34

HTRW DRILLING LOG

HOLE NO. CAS07-SB34

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h.
		Same Sandy SILT (ML) - very stiff, moist, light tan low plastic	HS=0.5		CAS07-SB34 -015	PP=3.5	T=0867 R=5.0/5.0
	11						
	12					PP=2.5	
	13						
	14	SAND (SP) - loose, moist, light brown fine grained				PP=2.5	
	15	Bottom of Boring 15ft					

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CAS07-SB34

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB35
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe ~~540~~ 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve	8. HOLE LOCATION: 1239093.834N 848103.406E	
	9. SURFACE ELEVATION: 4317.15 ft above msl.	
	10. DATE STARTED: 2-7-13	11. DATE COMPLETED: 2-7-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 20 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5 + dup	—	Lead	TPH-GRO, DRO, ORO	Btex + naphthalene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	James Cordi

LOCATION SKETCH/COMMENTS — SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB35

HTRW DRILLING LOG

HOLE NO. CA507-SB35

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Sandy SILT (ML) very stiff, moist, light brown low plastic with gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface soil CA507-SS35 -001 T=0925	PP=Pocket Pen	START TIME = 0927 Time (T) 0955 Recovery (R) 4.0/5.0
	1	Decreasing gravel	BKG=ND HS=ND		CA507-SB35 -004 + dup	PP=2.0	Fill
	2					PP=3.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3					PP=3.0	
	4				NR		
	5				CA507-SB35 -010		
			HS=ND			PP=3.0	T=1005 R=5.0/5.0
	6						
	7					PP=3.0	
	8	Becomes stiff				PP=2.0	
	9						
	10	Becomes light tan with increasing sand					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB35

HTRW DRILLING LOG

HOLE NO. CA507-SB35

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Corradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	SAME Sandy SILT(ML) - stiff moist, light tan, low Plastic	HS=ND		CA507-SB35 -015	PP=2.5	T=1013 R=5.0/5.0
	11						
	12	with calcareous nodules				PP=2.0	Native soil
	13					PP=2.5	
	14						
	15						
		SAND (SP) - loose, moist, tan, fine grained	HS=ND		CA507-SB35 -020		T=1033 R=5.0/5.0
	16						
	17						
	18						
	19	Sandy CLAY(CL) - very stiff, moist, brown low plastic				PP=3.5	
	20	Bottom of Boring 20'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB35

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB36
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA507-SB36, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler with a 1 5/8" diameter sample liner		8. HOLE LOCATION: 1239101.725 N 847940.234 E
		9. SURFACE ELEVATION: 4317.3 ft above msl
		10. DATE STARTED: 2-4-13 @ 1300 / 11. DATE COMPLETED: 2-4-13 @ 1320
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 10 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	BTEX + Naphthalene	Lead	Site-Specific SVOCs	TPH-GRO/DRO	DEO PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB36

HTRW DRILLING LOG

HOLE NO. CA507-SB36

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer [illegible]

SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	Sandy SILT and GRAVEL (ML-GP)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA507-SS36-001	PP=Pocket Pen	START TIME = 1300 Time (T) Recovery (R)
		Concrete	BKG=ND				
	1	SILT (CL) - Medium Stiff, moist, dark brown, medium plasticity (Top Soil)			CA507-SB36-005	PP=2.0	T=1306 R=5.0'/5.0'
	2		FS=ND HS=ND		TPH-GRO, BTEX Collected from the bottom of the sample interval		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
	4	Sandy SILT (ML) - Medium Stiff, moist, pale orangish-grey, slight plasticity, some fine sand, trace reddish-brown mottling				PP=2.0	
	5	Sand become trace, very fine grain, darkens to reddish-brown Becomes SILT (ML), Stiff				PP=3.5	T=1320 R=5.0'/5.0'
	6				CA507-SB36-010		
	7		FS=ND HS=ND		TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=3.5	
	8	Sharp color change @ 8.5 ft bgs Clayey Sandy SILT (ML) - Stiff, moist, pale greyish-tan, slight plasticity, fine sand with Caliche (Calcareous)				PP=2.5	
	9						END TIME = 1320
	10	Bottom of Boring @ 10 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB36

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8383-TO-0169		HOLE NUMBER: CA507-SB37
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA507-SB36, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8"	8. HOLE LOCATION: 1239095.988N 848033.386E	
	9. SURFACE ELEVATION: 4317.5 ft above msl	
	10. DATE STARTED: 2-4-13 @ 1230	11. DATE COMPLETED: 2-4-13 @ 1251
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 10 feet (ft) below ground surface	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	BTEX + Naphthalene	Lead	Site Specific SVOCs	TPH-GRO/DRO/ORO		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS SCALE: NOT TO SCALE

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB37

HTRW DRILLING LOG

HOLE NO. CA507-SB37

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer L Allen

SHEET 2 OF SHEETS 2

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	SILT (CL) - Stiff, moist, dark brown, medium plasticity, some clay	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		CA507-SS36-001	PP=Pocket Pen PP=3.0	START TIME = 1230 Time (T) Recovery (R) T=1242 R=4.4'/5.0'
	1				CA507-SB37-005 and Duplicate		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2		FS=ND HS=ND		CA507-SB37-005 @ false time 0700	PP=3.5	
	3	Some fine sand					
	4	Sandy SILT (ML) - Medium stiff, moist, pale orangish-grey, low plasticity, very fine sand				PP=1.5	
						NO Recovery	
	5	some reddish-brown sand mottling				PP=2.0	T=1251 R=5.0'/5.0'
	6	Silty SAND (SM) - Medium dense, moist, reddish-brown, very fine grain			CA507-SB37-010		
	7		FS=ND HS=ND				
		Sharp Color change					
	8	Clayey Sandy SILT (ML-CL) - Medium dense moist, very light grey with pale orange mottling, medium plasticity, fine sand				PP=2.0	
	9	Increased sand, becomes calcareous					END TIME 1251
	10	Bottom of Boring @ 10 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB37

HTRW DRILLING LOG

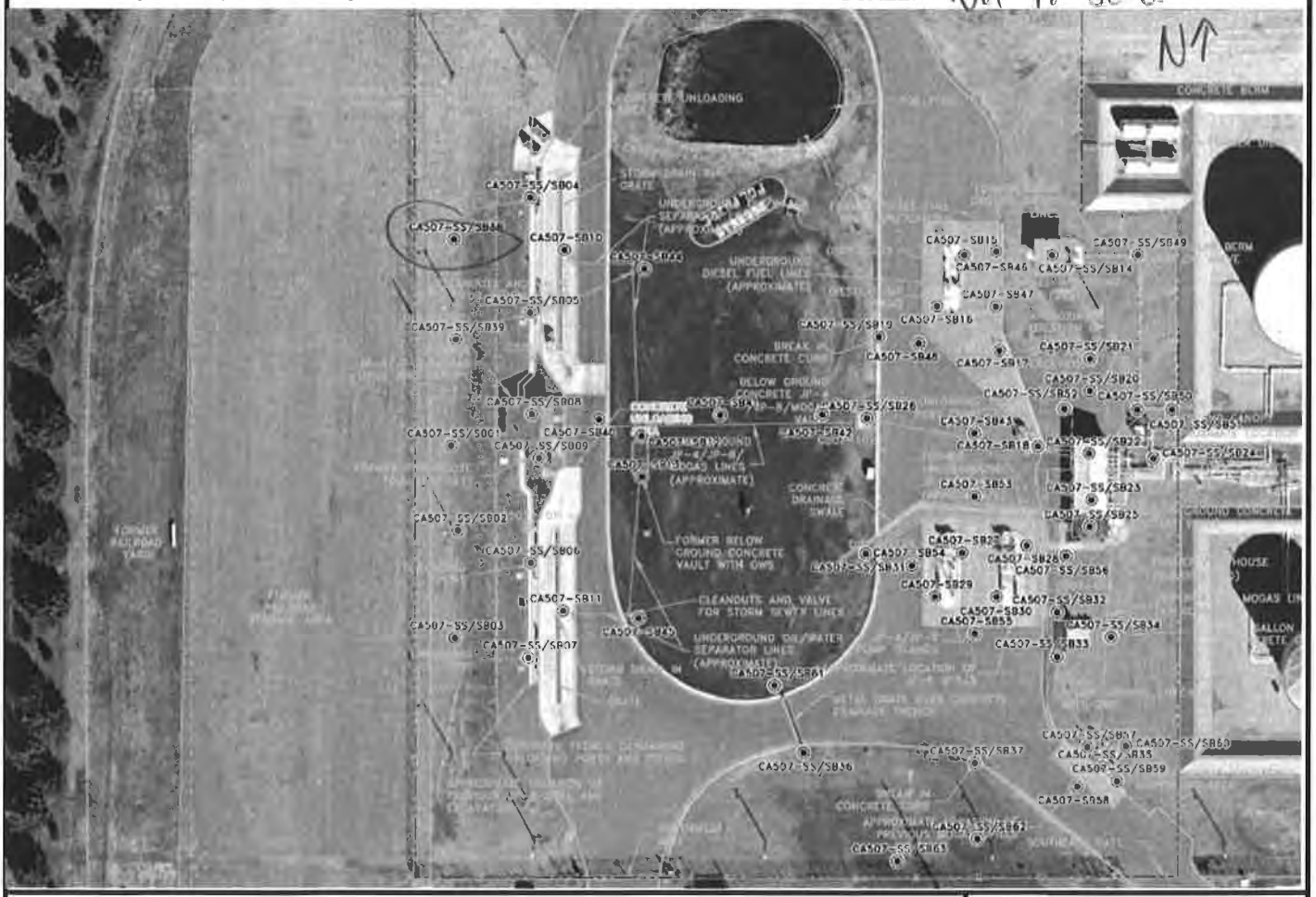
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB38
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve		8. HOLE LOCATION: 1239384.971N 847749.458E
		9. SURFACE ELEVATION: 4317.15 ft above msl
		10. DATE STARTED: 3-4-13 / 11. DATE COMPLETED: 3-4-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: ~~10~~ MC 15'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
1 + dup	—	Lead	TPH-GRO, DRO	BTEX + Naphthalene	Site-Specific SVOCs, PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Melissa Alvin

LOCATION SKETCH/COMMENTS — SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB38

HTRW DRILLING LOG

HOLE NO. CA507-SB38

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SILT (ML) - Stiff, dry, brown, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface soil: CA507-SB38-001 T/M = 1405	PP=Pocket Pen PP=2.0	START TIME = 1410 Fill
		becomes medium stiff, light tan, with calcareous nodules	BKG=ND HS=10.6		CA507-SB38-004 +dup	PP=4.5	Time (T) = 1420 Recovery (R) 4.0/5.0
	1	Becomes hard, dark brown, with clay					
	2	With decreasing clay and increasing sand					Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
		Becomes reddish brown					
	3						
		SAND (SP) - Loose, dry, reddish brown, fine					
		becomes tan					
	4						
				NR			
	5		HS=46.0		CA507-SB38-005		Becomes Native soil
		becomes reddish brown					T=1430
		With silt					R=4.1/5.0
	6						
	7						
							Very easy drilling
	8						
		Becomes tan					
	9						
				NR			
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB38

HTRW DRILLING LOG

HOLE NO. CA507-SB38

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SAND(SP)--Loose, dry, tan, fine grained	HS=3.4		CA507-SB38-014		T=1450 R=4.0/5.0
		with clay					
	11	with decreasing clay					
	12						
		becomes reddish brown					
	13						
	14						
				NR			
	15	Bottom of Boring 15 ft					
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB38

HTRW DRILLING LOG

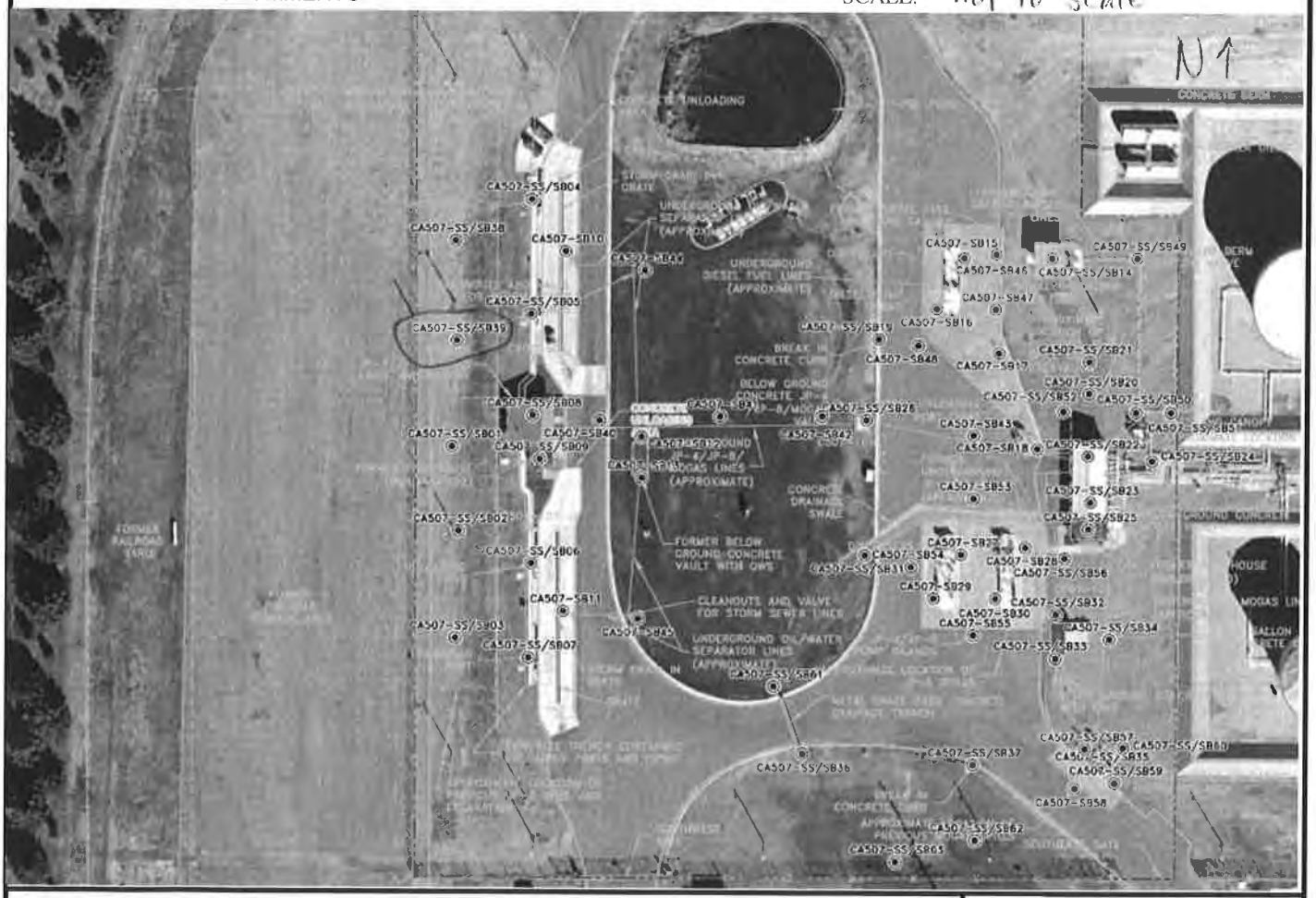
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB39
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1239329.62 N 847751.094 E	
	9. SURFACE ELEVATION: 4319.3 ft above msl	
	10. DATE STARTED: 2-4-13	11. DATE COMPLETED: 2-4-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 10	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 + dup	—	Lead	TPH-GRO, DRO, ORO	BTEX + Naphthalene	Site-Related SVOCs, PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Melissa Allen

LOCATION SKETCH/COMMENTS SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB39

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA507-SB39

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAND(SP) - Loose, dry, brown, fine with trace coarse + gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=ND		Surface soil: CA507-SS39-001 TIME=1310	PP=Pocket Pen	START TIME = 1315 Fill Time (T) = 1320 Recovery (R) = 4.7/5.0
	1	Become light tan, medium grained, with coarse grained calcareous nodules			CA507-SD31-005 + dup		
	2	Clayey SILT(ML) - Hard, dry, dark brown, low plastic				PP=4.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
		With decreasing clay and increasing sand					
	3	Becomes very stiff					
						PP=3.0	
	4						
		SAND(SP) - Loose, dry, light brown, fine grained					Becomes native soil
	5		HS=ND		CA507-SB39-010		T = 1340 R = 5.0/5.0
	6						
	7	with increasing silt content					
	8	1' of light tan silt with calcareous nodules					Very easy drilling
	9	No silt					
	10	Bottom of boring - 10' bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB39

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA507-SB40	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe MacroCore, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1239285.861N 847816.046E	
	9. SURFACE ELEVATION: 4320.0 ft above msl	
	10. DATE STARTED: 2-5-13	11. DATE COMPLETED: 2-5-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2 + dup	—	Lead	TPH-GRO, DRO, ORO	BTEX + Naphthalene	SPLP-Metals, SVOCs, PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Matt Clin

LOCATION SKETCH/COMMENTS SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB40

HTRW DRILLING LOG

HOLE NO. CA507-SB40

PROJECT Site Investigation at 8 Sites, Cannon AF

INSPECTOR M. Cline

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		(none)	PP=Pocket Pen	START TIME = 1310
		0.3' of base rock	BKG=ND				Time (T) = 1315 Recovery (R) = 5.0/5.0
	1	SAND(SP) - Loose, moist, red, fine-grained	HS=1.8				Fill
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
		0.3' of fine gravel					
	4	Clayey SILT(ML) - Hard, moist, brown, low plastic				PP=4.0	
	5		HS=1.7		CA507-SB40-010 + dup		T= 1330 R= 5.0/5.0
	6						
	7	Becomes tan, with sand-sized calcareous nodules				PP=3.5	
	8						
	9					PP=3.0	
	10						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB40

HTRW DRILLING LOG

HOLE NO. CA507-SB40

PROJECT: e Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME - SILT(ML) - Very stiff, moist, light tan, low plastic, with calcareous nodules	HS=2.1		CA507-SB40-01S	PP=3.5	T=1340
		SAND(SP) - Loose, moist, reddish brown, fine grained, with trace silt					R=5.0/5.0
	11						
	12						
	13	Clayey SILT(ML) - Stiff, moist, light brown, low plastic, with trace fine sand				PP=2.0	Begin Native Soil
	14						
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB40

HTRW DRILLING LOG

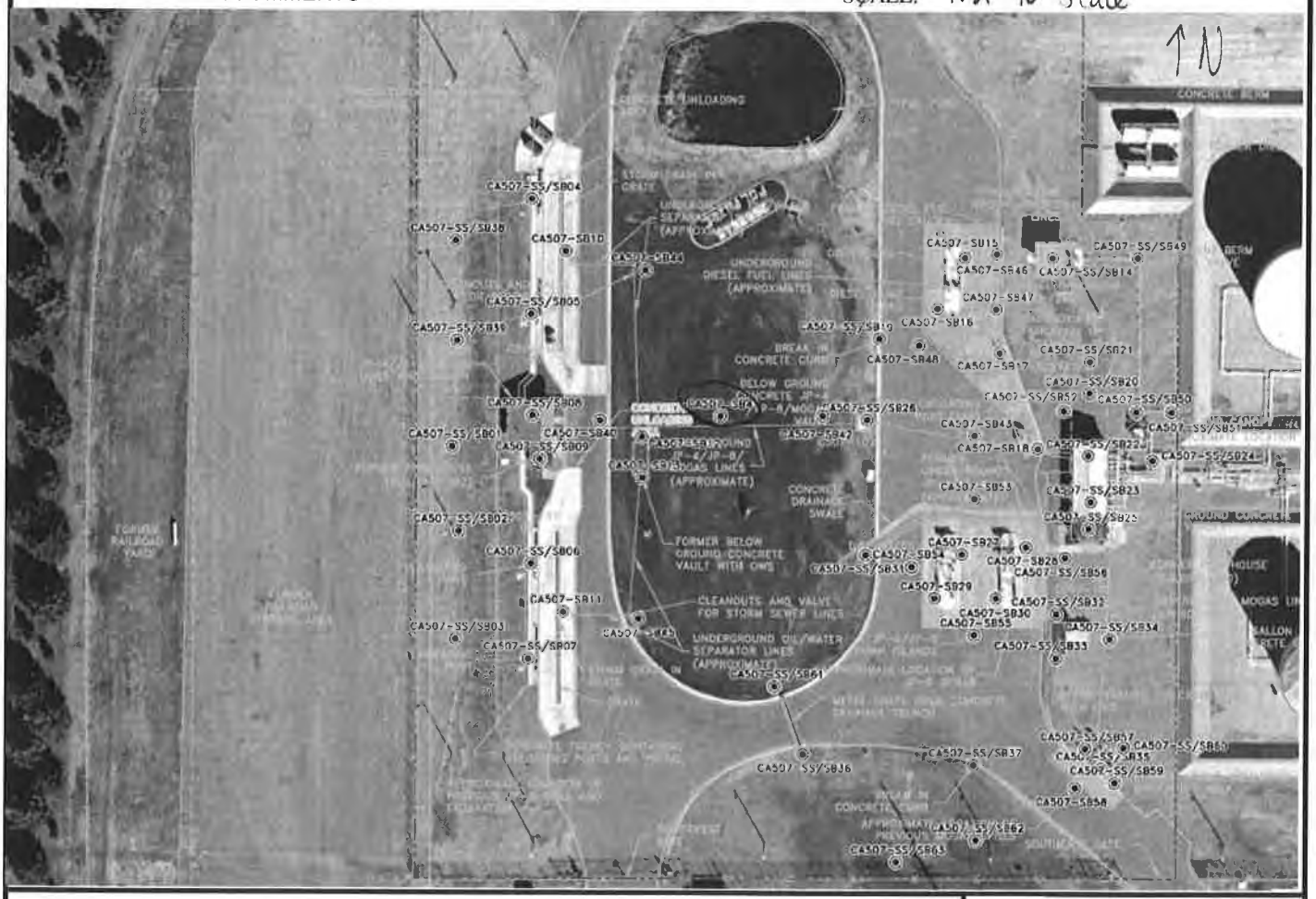
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB41
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 3/4 in dia. Sample Sleve	8. HOLE LOCATION: 1239288.079N 847894.552E	
	9. SURFACE ELEVATION: 4318.85 ft (MSL)	
	10. DATE STARTED: 2-6-13	11. DATE COMPLETED: 2-6-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	–	lead	TPH-GRO, DRO, ORO	BTex + Naphthalene	Site related Sw PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite chips	X	–	–	James Gerald

LOCATION SKETCH/COMMENTS SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB41

HTRW DRILLING LOG

HOLE NO. CA507-SB41

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sandy SILT (ML) - stiff, dry, brown, with Gravel low plastic,	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=ND		none	PP=Pocket Pen PP=1.5	START TIME = 1020 Fill Time (T) 1130 Recovery (R) 4.0/5.0
	1						
	2					PP=2.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
	4				NR		
	5		HS=ND		CA507-SB41-010		T=1140 R=5.0/5.0
	6	Becomes light brown				PP=2.5	Native soil
	7					PP=3.0	
	8						
	9	Becomes light tan				PP=3.0	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB41

HTRW DRILLING LOG

HOLE NO. CA507-SB41

PROJECT: .e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same: SILT(ML) - stiff, dry, brown low plastic	HS=ND		CA507-SB41-015	PP=2.0	T=1146 R=5.0/5.0
	11	Becomes very stiff, light tan, moist, with gravel sized calcareous nodules				PP=2.0	
	12						
	13						
	14	SAND(SP) - loose, moist, brown, fine grained					
	15	Bottom of boring 15'					
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB41

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB42
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve		8. HOLE LOCATION: 1239288.357N 847999.961
		9. SURFACE ELEVATION: 4317.8 ft above msl
		10. DATE STARTED: 2-6-13 / 11. DATE COMPLETED: 2-6-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0			

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2 + dup	—	lead	TPH-GRO, PRO, ORO	BTEX + Naphthalene	site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite chips	X	—	—	Amos Conrad

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB42

HTRW DRILLING LOG

HOLE NO. CA507-SB42

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sandy SILT(ML)-Hard, dry, brown low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect B/KG=ND HS=ND		none	PP=Pocket Pen PP=4.0	START TIME = 1250 Time (T) 1258 Recovery (R) 4.5/5.0
	1						
	2					PP=2.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
		Becomes very stiff, light tan with calcareous nodules				PP=2.0	
	4	with increasing sand					
					NR		
	5		HS=ND		CA507-SB42-010 + dup		T=1307 R=5.0/5.0
	6	Becomes medium stiff				PP=1.0	
	7	Becomes very stiff				PP=3.0	
		Becomes Brown with increasing sand					
	8					PP=2.0	
	9	Becomes tan					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB42

HTRW DRILLING LOG

HOLE NO. CA507-SB42

PROJECT: e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same: Sandy SILT(ML) - Hard, dry, brown, low plastic	HS= ND		CA507-SB42-015		T=1315
		Gravel				PP=25	R=5.0/5.0
		Becomes very stiff					
	11						Native soil
	12	Becomes stiff				PP=20	
	13						
	14	SAND(SP) - loose, moist, brown, fine grained					
		Bottom of Boring 15'					
	15						
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB42

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA507-SB43	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve	8. HOLE LOCATION: 1239291.347N 848031.935E	
	9. SURFACE ELEVATION: 4317.8 ft above MSL	
	10. DATE STARTED: 2-7-13	11. DATE COMPLETED: 2-7-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	TPH, GRO, DRO, OA2	Btex + Naphthalene	site related PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	James Conrad

LOCATION SKETCH/COMMENTS SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB43

HTRW DRILLING LOG

HOLE NO. CA507-SB43

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=ND		None	PP=Pocket Pen	START TIME = 1445 Time (T) ~~1445~~ Recovery (R) 4.0/5.0
	1	Sandy SILT (ML) - Very stiff, moist, light brown low plastic, trace calcareous nodules				PP=3.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2					PP=3.0	
	3	Becomes light tan, stiff					
						PP=2.0	
	4						
					NR		
	5						
			HS=ND		CA507-SB43 ~~[illegible]~~ -010		T=1500 R=5.0/5.0
		Becomes hard				PP=4.5	
	6						
	7					PP=4.5	
	8						
						PP=4.0	
	9	Sandy CLAY (CL) - Hard, moist, light tan, medium plastic					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB43

HTRW DRILLING LOG

HOLE NO. CA507-SB43

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Comadi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Some; Sandy CLAY (CL) - Hard, moist, light tan, medium plastic	HS=ND		CA507-SB43-015		T=1508 R=5.0/5.0
		Sandy SILT (ML) - Very stiff, moist, light tan, medium plastic				PP=3.0	
	11						
	12					PP=3.0	
	13						
						PP=2.5	
	14						
		SAND (SP) - loose, moist, dark tan, fine grained					
	15	Bottom of Boring 15'					
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB43

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB44
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1239368.714 N 847853.203 E	
	9. SURFACE ELEVATION: 4320.0 ft above MSL	
	10. DATE STARTED: 2-5-13	11. DATE COMPLETED: 2-5-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	TPH-GRO, DRO	BTEX + Naphthalene	Site-Wide Suite, PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Matt Clem

LOCATION SKETCH/COMMENTS

SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB44

HTRW DRILLING LOG

HOLE NO. CA507-SB44

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAND (SP) - Loose, dry, brown, fine grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		(none)	PP=Pocket Pen	START TIME = 1400 Fill Time (T) = 1405 Recovery (R) = 4.7/5.0
	1		HS=0.7				
	2	with increasing silt					Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	Becomes medium dense					
	4						
	5		HS=2.0		CA507-SB44-010		T=1415 R=5.0/5.0
	6	with increasing silt					
	7						
		SILT (ML) - Stiff, moist, light tan, low plastic with trace sand				PP=2.0	
	8						
	9	Becomes light brown				PP=2.0	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB44

HTRW DRILLING LOG

HOLE NO. CA507 - SB44

PROJECT e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SILT(ML) - Stiff, moist, light tan, low plastic	HS=ND		CA507-SB44-015	4-	T=1420 R=5.0/5.0
		0.3' of sand, looks like crushed brick					
	11	Becomes brown				PP=2.0	Becomes native soil
	12	0.4' of fine brown sand					
		Becomes light tan, with very large calcareous nodules (~1.5" in diameter)					
	13					PP=2.0	
	14						
		SAND(SP) - Loose, moist, reddish brown, fine-grained					
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507 - SB44

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA507-SB45	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core 1 5/8" diameter sample sleeves	8. HOLE LOCATION: 1239175.823N 847850.435E	
	9. SURFACE ELEVATION: 4320.15 ft above MSL	
	10. DATE STARTED: 2-5-13	11. DATE COMPLETED: 2-5-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	TPH-GRO, DRO, ORO	8 EX+ Naphthalene	Site-specific SVOCs + PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Michael Clay

LOCATION SKETCH/COMMENTS SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB45

HTRW DRILLING LOG

HOLE NO. CA507-SB45

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravelly SAND (SP) - Loose, dry, brown, poorly sorted, chert gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG = ND HS = ND		(none)	PP=Pocket Pen	START TIME = 1435 Time (T) 1440 Recovery (R) 5.0/5.0
	1	SILT (ML) - Soft, dry, brown, low plastic 0.2' of fine sand				PP=0	
	2	Becomes hard, with sand				PP=4.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
	4					PP=4.0	
	5		HS = ND		CA507-SB45-010		T= 1450 R= 4.8/5.0
	6	0.2' of fine gravel				PP=4.5	
	7					PP=4.5	
	8	Silty SAND (SM) - Dense, dry, light brown, fine grained					Becomes Native soil
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB45

HTRW DRILLING LOG

HOLE NO. CA507-SB45

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M- Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME: Stiff SAND (SM) - Dense, dry, light brown, fine grained	PID=ND		CA507-SB45-015		T=1455 R=5.0/5.0
	11	with trace gravel					
	12						
		SILT (ML) - Stiff, dry, light tan, low plastic, with calcareous nodules (coarse sand-sized)				PP=1.5	
	13						
	14						
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB45

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA507-SB46	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve	8. HOLE LOCATION: 1239378.437N, 848044.477E	
	9. SURFACE ELEVATION: 4317.5 ft above msl	
	10. DATE STARTED: 2-10-13	11. DATE COMPLETED: 2-10-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	TPH-GRO, DRO, ORO	Btex + naphthalene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	James Conrad

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	SB46

HTRW DRILLING LOG

HOLE NO. CA507-SB46

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAND(SP) - loose, moist, reddish brown, fine grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=ND	~~A0~~	none	PP=Pocket Pen	START TIME = 1553 Time (T) = 1600 Recovery (R) = 4.0/5.0 FILL Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	1						
	2						
		Sandy SILT (ML) - Stiff, moist, light brown, low plastic				PP=2.5	
	3						
		Becomes light tan					
	4				NR		
	5						
		Becomes light brown	HS=ND		CA507-SB46-010		T=1615 R=5.0/5.0
	6					PP=2.0	
		Some calcareous nodules					
	7					PP=2.5	
	8					PP=2.0	
	9	Becomes light tan, with decreasing sand and calcareous nodules					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB46

HTRW DRILLING LOG

HOLE NO. CA507-SB46

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		~~SAME~~: Sandy SILT (ML) - Stiff, moist, light tan low plastic, with calcareous nodules	HS=ND		CA507SB46 -015	PP=2.0	T=1625 R=5.0/5.0
	11						
	12					PP=3.0	
		SAND - brown, fine grained					
	13						
	14	Becomes very stiff				PP=3.5	
		Bottom of Boring 15'					
	15						
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB46

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-03-D-8783-TO-1069		HOLE NUMBER: CA507-SB47
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore, 1 7/8 inch dia sample sleeve		8. HOLE LOCATION: 1239348.017 N, 848044.285 E
		9. SURFACE ELEVATION: 4317.45 ft above msl
		10. DATE STARTED: 2-10-13 / 11. DATE COMPLETED: 2-10-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	–	–	–

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	–	Lead	TPH-GRO, DRO, ORO	Btex + naphthalene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	–	–	James Cand.

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB47

HTRW DRILLING LOG

HOLE NO. CA507-SB47

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Sandy SILT (ML) - Very stiff, moist, light brown low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=ND		none	PP=Pocket Pen PP=4.0	START TIME = 1650 Time (T) = 1654 Recovery (R) = 3.5/5.0
	1	SAND(SP) - loose, moist, light brown fine grained					
						PP=3.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2	with calcareous nodules					
						PP=2.0	
	3	SAND(SP) - loose moist, light brown fine grained					
	4				NR		
	5		HS=ND		CA507-SB47-010		T = 1705 R = 5.0/5.0
						PP=3.0	
	6						
	7					PP=2.0	
	8						
	9	Becomes light tan, stiff				PP=1.5	
	10						

HTRW DRILLING LOG

HOLE NO. CA507-SB47

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conadi

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Same: ~~Silty~~ Sandy SILT(ML)-Very stiff, moist, light tan, low plastic	HS=ND		CA507-SB47-015		T=1712 R=50/5.0
						PP=3.5	
	11						
	12					PP=2.5	
	13	SAND(SP)-loose-moist, tan, fine grained					
	14					PP=2.0	
	15	Bottom of Boring 15'					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB47

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-1069		HOLE NUMBER: CA507-SB48
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 inch sample sleve	8. HOLE LOCATION: 1239327.642N, 848002.317E	
	9. SURFACE ELEVATION: 4317.5 ft above msl	
	10. DATE STARTED: 2-8-13	11. DATE COMPLETED: 2-8-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 10 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

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

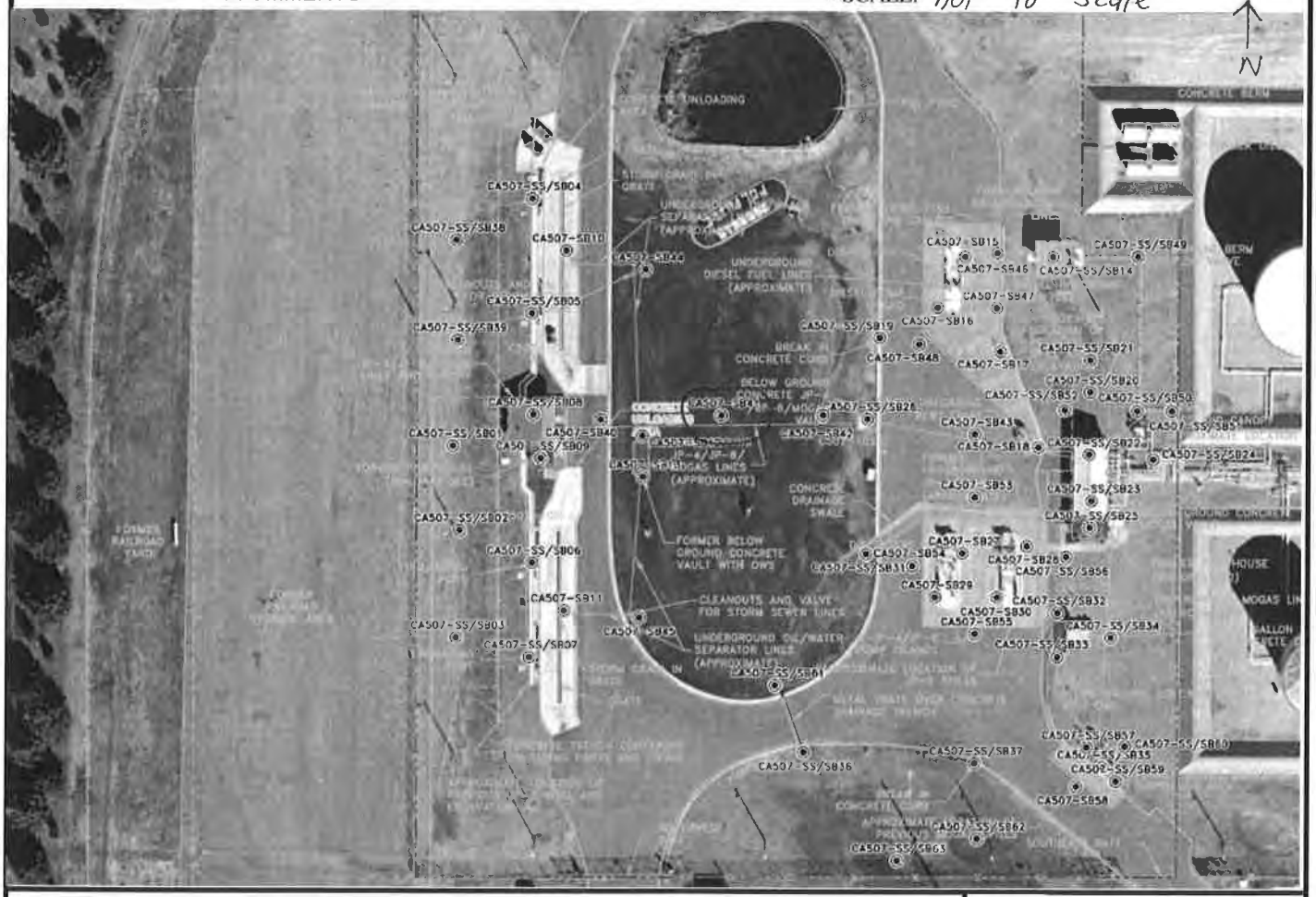
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2 ft MS/MSD	—	Lead	Btex + Napthalene	TPH-GRO DRO ORO	site related svocs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	James Conrad

LOCATION SKETCH/COMMENTS

SCALE: not to Scale

N



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB48

HTRW DRILLING LOG

HOLE NO. CA507-SB48

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG= ND HS F ND		CA507-SB48-005	PP=Pocket Pen	START TIME = 0845 Time (T) 0850 Recovery (R) 5.0/5.0
	1	Sandy CLAY (CL) - Hard, moist, brown, medium plastic				PP=4.0	Fill
	2					PP=4.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
	4	Sandy SILT (ML) - Very stiff, moist, light tan low plastic				PP=2.5	Native soil
	5		HS=ND		CA507-SB48-010 +MS/MSD	PP=4.0	T=0900 R=5.0/5.0
	6					PP=4.0	
	7	with calcareous nodules				PP=4.0	
	8						
	9	Sandy CLAY (CL) - Hard, moist, tan, medium plastic					
	10	Bottom of Boring 10'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB48

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA507-SB49
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve		8. HOLE LOCATION: 1239376.512N, 848121.52E
		9. SURFACE ELEVATION: 4318.2 ft above MSL
		10. DATE STARTED: 2-8-13 / 11. DATE COMPLETED: 2-8-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 20 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4 + dup	—	Lead	BTEX + Naphthalene	TPH, GRO, DRO, ORO	Site specific SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite pellets	X	—	—	James Cardi

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB49

HTRW DRILLING LOG

HOLE NO. CA507-SB49

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR:

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA507-SB49 ~~-001~~ -004 + dup	PP=Pocket Pen PP=4.0	START TIME = 1420 Time (T) 1425 Recovery (R) 4.0/5.0 Fill
	1	Sandy SILT (ML) - Hard, moist, light brown, low plastic	BKG=ND HS=~~10~~.8				
	2					PP=4.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3					PP=2.5	
	4	Becomes light tan					Native Soil
	5				NR		
		Becomes stiff	HS= 119		CA507-SB49 -010	PP=1.5	T=1438 R=5.0/5.0
	6						
	7					PP=2.5	
	8						
	9	Becomes very stiff				PP=3.0	
	10	with calcareous nodules					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB49

HTRW DRILLING LOG

HOLE NO. CA507-SB49

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same: Sandy SILT (ML) - very stiff, moist, light brown, medium plastic	HS=261		CA507-SB49-015	PP=4.0	T=1448 R=5.0/5.0
		Becomes Hard					
	11						
						PP=4.0	
	12						
	13	Becomes very stiff					
						PP=3.0	
	14						
	15		Field Screen = 0.0 HS=1.3		CA507-SB49-020		T=1515
		with increasing sand				PP=2.0	R=5.0/5.0
	16						
	17						
						PP=2.0	
	18						
	19					PP=1.5	
	20	Becomes light tan					
		~~Bottom of boring - 20' bgs~~					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB49

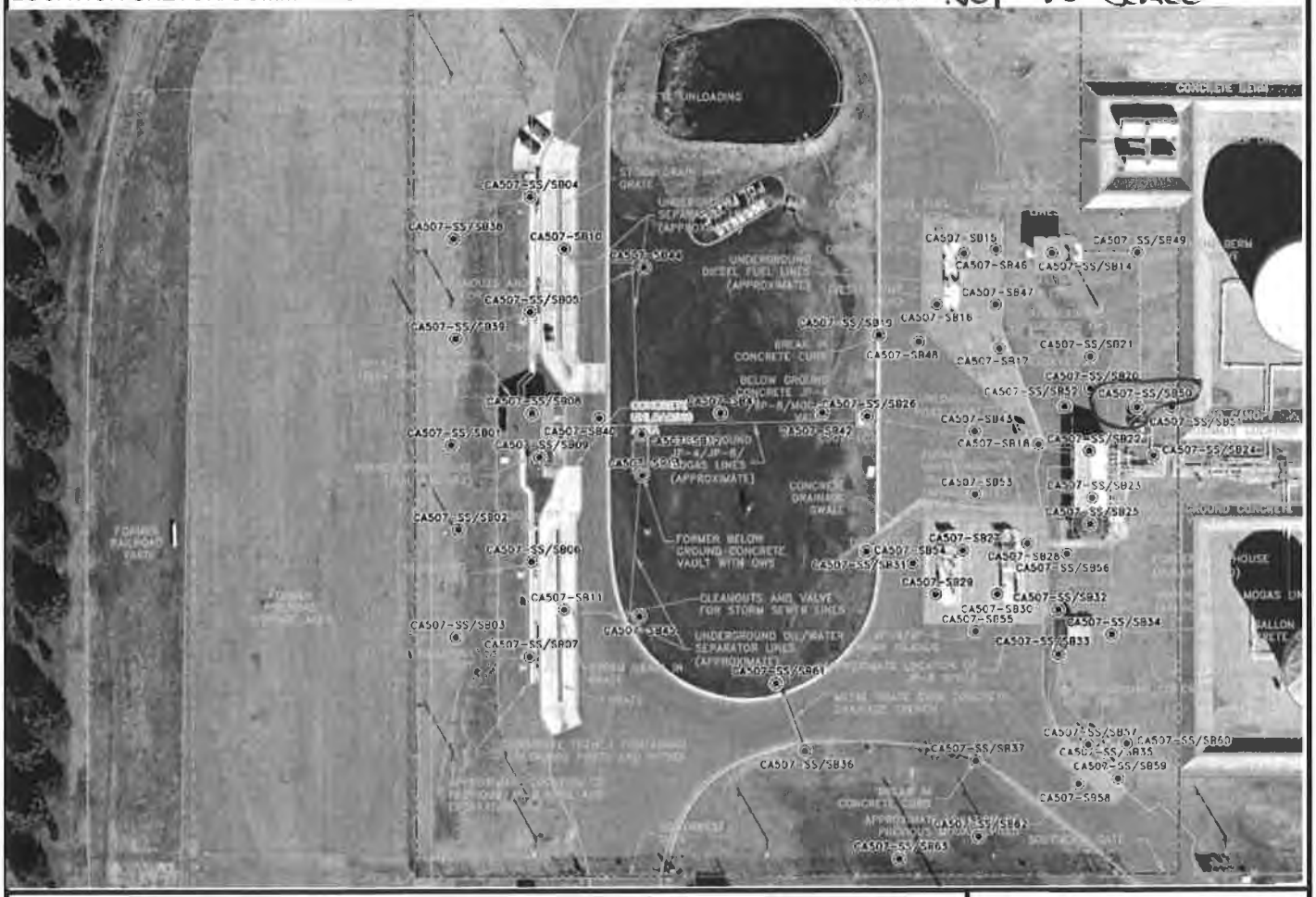
HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8785-TO-0169		HOLE NUMBER: CA507-SB50
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA507-SB50, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" diameter sample liner		8. HOLE LOCATION: 1239290.566N, 848110.694E
		9. SURFACE ELEVATION: 4317.7 ft above msl
		10. DATE STARTED: 2-12-13@1500 / 11. DATE COMPLETED: 2-12-13@1540
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater Not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 15 feet (ft) belowground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A
18. GEOTECHNICAL SAMPLES: 8	DISTURBED / UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES: N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	BTEX+Naphthalene	Lead	Site Specific SVOCs	TPH-GRO/ORO/DRO		N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer Allen

LOCATION SKETCH/COMMENTS — SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB50

HTRW DRILLING LOG

HOLE NO. CA507-SB50

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF SHEETS 3

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	Sandy SILT (ML) - Stiff, dry, brown, slight plasticity, fine grain sand (FILL)	HS = Head Space Screening; FS = Field Screening; BKG = Background; PPM = Parts Per Million; ND = Non Detect BKG = ND		CA507-SS50-001	PP = Pocket Pen	START TIME = 1500
	1					PP = 3.0	Time (T) Recovery (R) T = 1515 R = 4.8'/5.0'
			FS = ND		CA507-SB50-005		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2		HS = ND				BTEX + TPH-GRO collected from the bottom of the sample interval
	3					PP = 3.0	
	4	Increased sand content, becomes reddish-brown					
	5					No Recovery	
		Silty SAND (SM) - Dense, dry, reddish-brown, fine grain (FILL)					
	6						T = 1526 R = 5.0'/5.0'
	7		FS = ND HS = ND		CA507-SB50-010		
	8						
	9	Native Surface @ 9.4 ft bgs					
	10	SILT (ML) - Medium stiff, dry, whitish-tan, slight plasticity, calcareous				PP = 2.0	

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE

HTRW DRILLING LOG

HOLE NO. CA507-SB50

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	Same As Above					
		SILT (ML) - Medium Stiff, dry, pale tan with white calliche mottling, slight plasticity,					
	11				CA507-SB50-015	PP-2.0	
	12		FS=ND HS=ND				T=1540 R=5.0'/5.0
						PP=1.5	
	13						
	14						
	15	Bottom of Boring @ 15.0 ft bgs					END TIME =1540
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB50

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-03-D-8783-TO-0169	HOLE NUMBER: CA507-SB51	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 inch dia Sample sleeve	8. HOLE LOCATION: 1239290.974N, 848140.583E	
	9. SURFACE ELEVATION: 4318 ft above msl	
	10. DATE STARTED: 2-13-13	11. DATE COMPLETED: 2-13-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	—	Lead	Btex + naphthalene	TPH-GRO, DRO ORO	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Conrad

LOCATION SKETCH/COMMENTS

SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB51

HTRW DRILLING LOG

HOLE NO. CA507-SB51

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR:

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAND (SP) - loose, moist, light brown, fine grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface Soil CA507-SS51 -001 T=1150	PP=Pocket Pen	START TIME = 1145 Time (T) 1205 Recovery (R) 4.6/5.0
	1		BKG=ND HS=0.2		CA507-SB51 -005		
		Sandy SILT (ML) stiff, moist, light brown, low plastic				PP=1.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2						
						PP=2.0	
		Becomes very stiff					
	3						
	4					PP=2.0	
					NR		
	5						
			HS=0.3		CA507-SB51 -010		T=1216 R=4.5/5.0
		Becomes light tan				PP=3.0	
	6						
		Light tan/light brown mottled					
	7					PP=3.0	
	8						
		with calcareous nodules					
	9					PP=3.5	
					NR		
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB51

HTRW DRILLING LOG

HOLE NO. CA507-SB57

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same: Sandy SILT (ML) - very stiff, moist, mottled light tan / ~~brown~~ light, low plastic	HS = 0.1		CA507-SB57 -015		T = 1225 R = 5.0/5.0
	11	Becomes light tan with decreasing sand					native soil
	12						
	13						
	14						
	15	Bottom of Boring 15'					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB57

HTRW DRILLING LOG

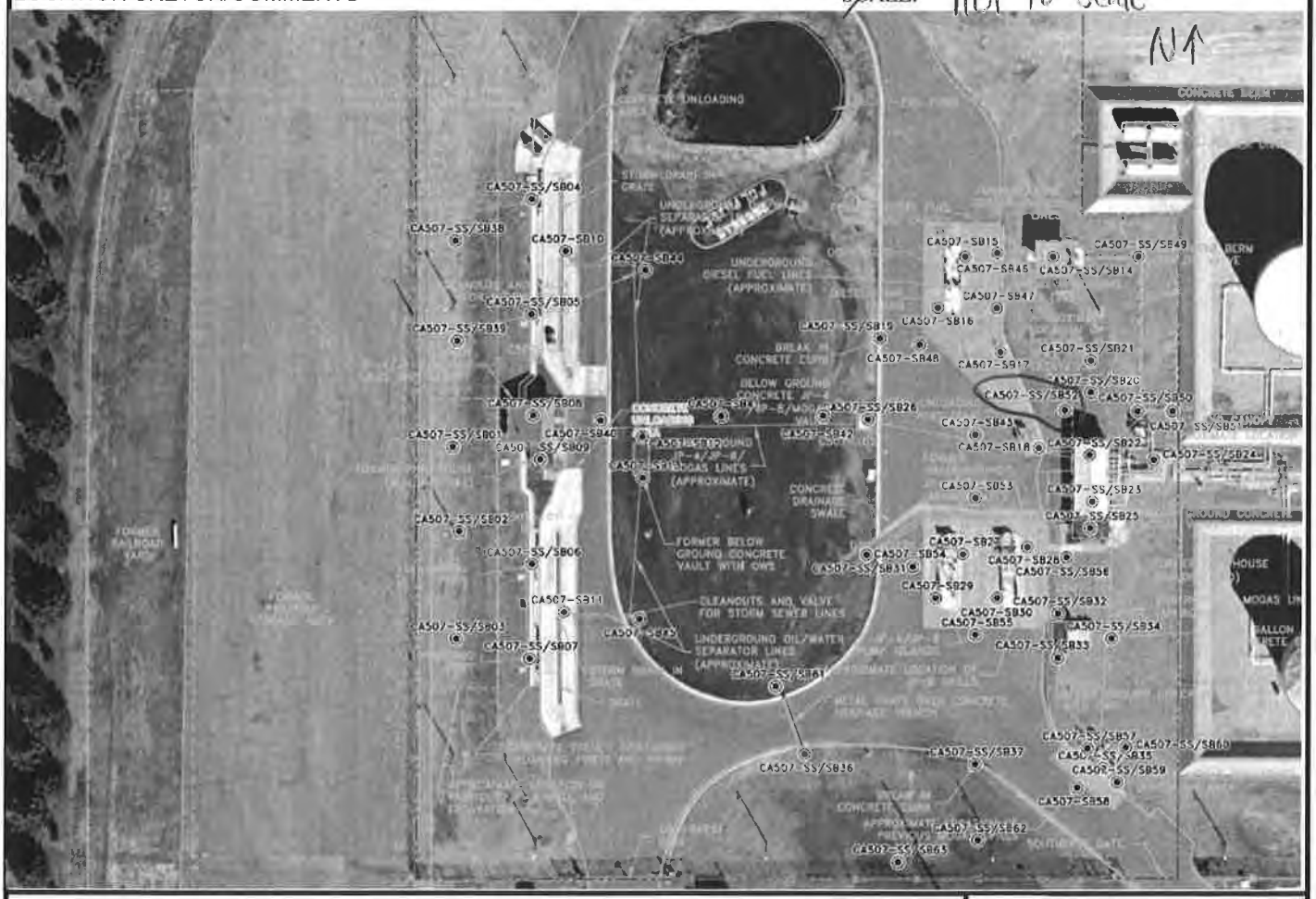
DISTRICT: AFCEC-FA8903-03-D-8783-TO-0169		HOLE NUMBER: CA507-SB52
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 4 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 inch dia sample sleeve	8. HOLE LOCATION: 1239291.432N, 848031.849E	
	9. SURFACE ELEVATION: 4317.95 ft above msl	
	10. DATE STARTED: 2-11-13	11. DATE COMPLETED: 2-11-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 30'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	–	–	–

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
7	–	Lead	TPH-GRO, DRO, ORO	BTEX + naphthalene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite chips	X	–	–	James Conrad

LOCATION SKETCH/COMMENTS — SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB52

HTRW DRILLING LOG

HOLE NO. CA507-SB52

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conrad

SHEET 2 OF 4 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Sandy SILT (ML) - Hard, moist, light brown, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=326!		Surface Soil CA507-SS52-001 T=0750 CA507-SB52-004	PP=Pocket Pen PP=>4.0	START TIME = 0815 Time (T) 0820 Recovery (R) 40/5.0 Fill
	1						
		Becomes very stiff				PP=2.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2						
	3						
						PP=2.5	
	4				NR		
	5		HS=175		CA507-SB52-010	PP=35	T=0832 R=50/5.0
	6						
	7					PP=35	
	8						
						PP=2.5	
	9	with calcareous nodules					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB52

HTRW DRILLING LOG

HOLE NO. CA507-SB52

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conodi

SHEET 3 OF [redacted] SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same: Sandy SILT(ML) - Hard, moist, light tan, low Plastic	HS=205		CA507-SB52-015	PP=2.0	T=0840 R=5.0/5.0 Native Soil
	11						
		Becomes very stiff					
	12					PP=3.0	
	13						
		with decreasing sand					
	14					PP=2.5	
	15		HS=220		CA507-SB52-020		T=0910 R=5.0/5.0
	16						
		Becomes light tan					
	17	SAND(SP) - loose, moist, light brown					
	18						
		with increasing sand					
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB52

HTRW DRILLING LOG

HOLE NO CA507-SB52

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conado

SHEET 4 OF [redacted] SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Same Sandy SILT (ML) - very stiff, moist, light brown, low plastic	HS=102		CA507-SB52-025	PP=2.5	T=0930 R=5.0/5.0
	21						
		Silty SAND (SP) loose, moist, light brown. (SM) fine grained				[redacted]	
	22						
	23						
	24						
		SILT with abundant calcareous nodules					
	25		AS=175		CA507-SB52-SB30		T=1005 R=5.0/5.0
		with increasing sand / decreasing silt					
	26						
	27						
	28						
	29	SILT (ML) - stiff, dry, light tan, low plastic				PP=1.5	
		Bottom of boring - 30' bgs					
	30						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB52

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8785-TO-1069		HOLE NUMBER: CA507-SB53
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Canon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 3/8 inch dia sample sleve		8. HOLE LOCATION: 1239243.073N, 848032.956E
		9. SURFACE ELEVA: 4317.5 ft above msl
		10. DATE STARTED: 2-7-13 / 11. DATE COMPLETED: 2-7-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 10 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

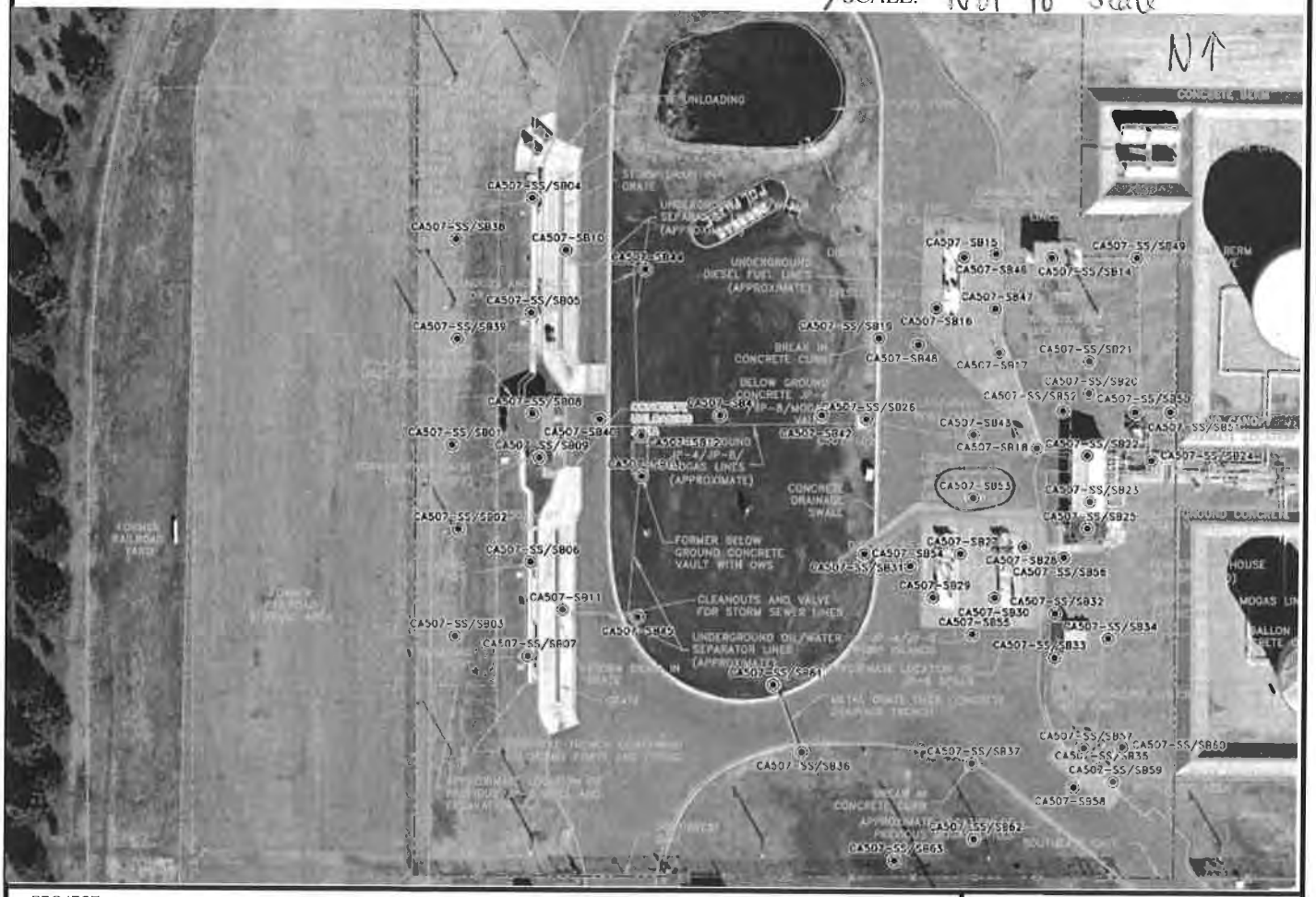
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	lead	TPH-GRO, DRO, ORO	BTEX + naphthalene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	James Conrad

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB53

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA507-SB53

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA507-SB53-005	PP=Pocket Pen	START TIME = 1405 Time (T) ~~1415~~ 1415 Recovery (R) 5.0/5.0
	1	Sandy SILT (ML) - stiff, moist, brown, low plastic	BKG=ND HS=ND			PP=2.0	Fill Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2	Becomes very stiff				PP=3.5	
	3	Becomes light tan					
	4					PP=3.0	
	5	Becomes light brown	HS=ND		CA507-SB53-010	PP=3.0	T=1425 R=5.0/5.0
	6						
	7					PP=3.0	
	8						
	9	Becomes light tan, stiff				PP=2.0	Native soil
	10	Bottom of Boring 10'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB53

HTRW DRILLING LOG

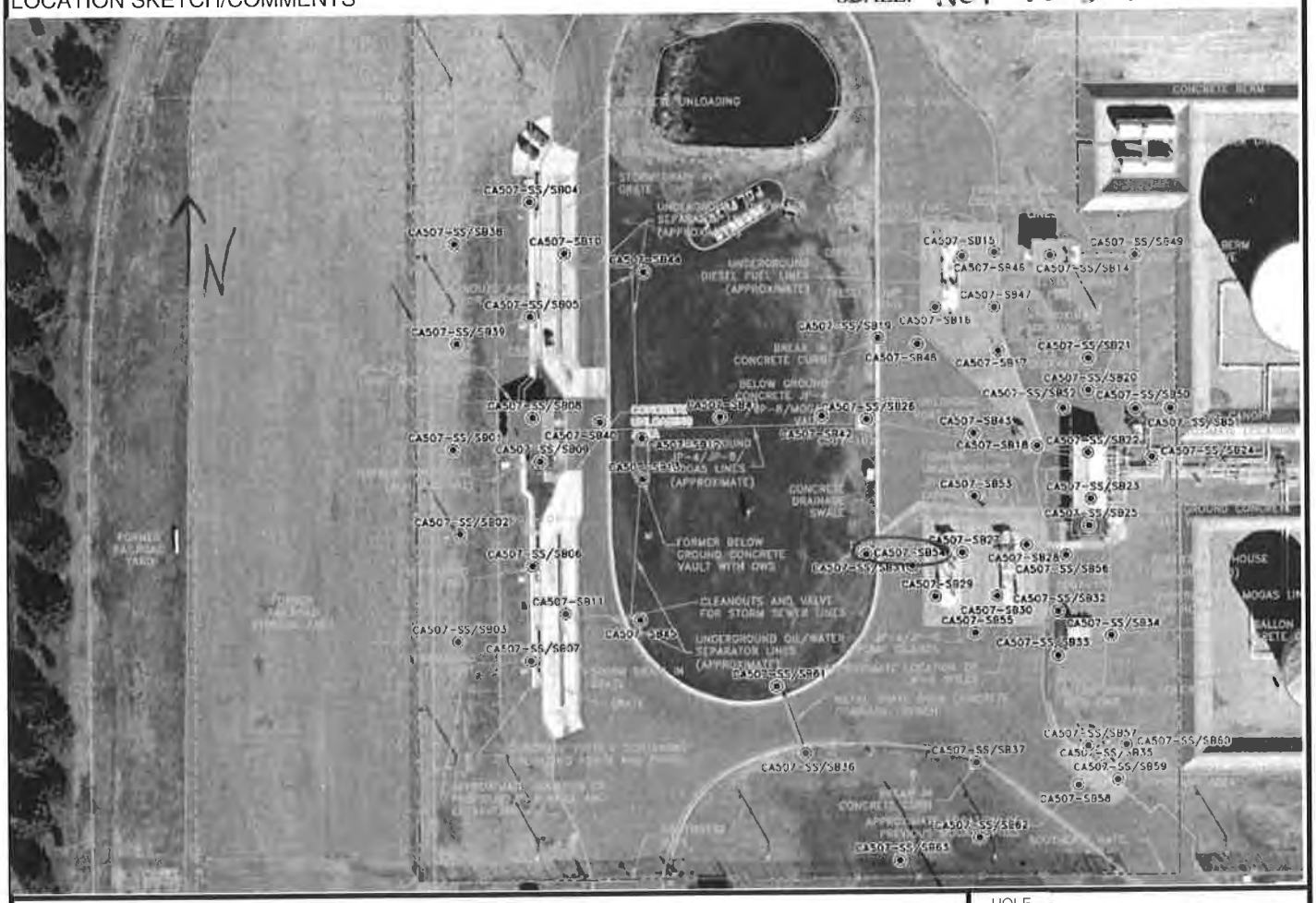
DISTRICT: AFCEC-FA8905-08-D-9783-TO-0169		HOLE NUMBER: CA507-SB54
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA507-SB54, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jesse Kolvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler with a 1 5/8" diameter sample liner	8. HOLE LOCATION: 1239199.628N, 847964.516E	
	9. SURFACE ELEVATION: 4317.3 ft above msl	
	10. DATE STARTED: 2-4-13@1535	DATE COMPLETED: 2-14-13@1550
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 10 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2 + MS/MSD	BTEX + Naphthalene	Lead	Site Specific SVOCs	TPH-GRO/DRO/ORO	PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB54

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO: CA507-SB54

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer [illegible]

SHEET 2 OF SHEETS 2

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO c.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
	0	SILT (CL) - Medium Stiff, moist, brown, medium plasticity	HS = Head Space Screening; FS=Field Screening; BKG = Background; PPM=Parts Per Million; ND=Non Detect; BKG= ND		CA507-SB54-001 collected on 2-8-13	PP=Pocket Pen; PP=1.5	START TIME = 1535; Time (T) Recovery (R); T= 1538; R= 5.0'/5.0'
	1						
	2		FS=ND; HS=ND		CA507-SB54-005; TPH-GRO, BTEX Collected from the bottom of the sample interval		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	SILT (ML) - Stiff, moist, pale orangish tan with trace white caliche mottling, Slight plasticity, some very fine sand				PP=2.5	
	4						
	5						
	6					PP=3.0	T=1550; R= 5.0'/5.0'
	7	Reddish-brown silty sand mottling 6.5-7.5 ft bgs	FS=ND; HS=ND		*CA507-SB54-010; TPH-GRO, BTEX Collected from the bottom of the sample interval		* Extra Volume Collected for MS/MSD
		Becomes pale tan (no mottling)					
	8					PP=2.5	
	9						END TIME = 1550
	10	Bottom of Boring @ 10 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB54

HTRW DRILLING LOG

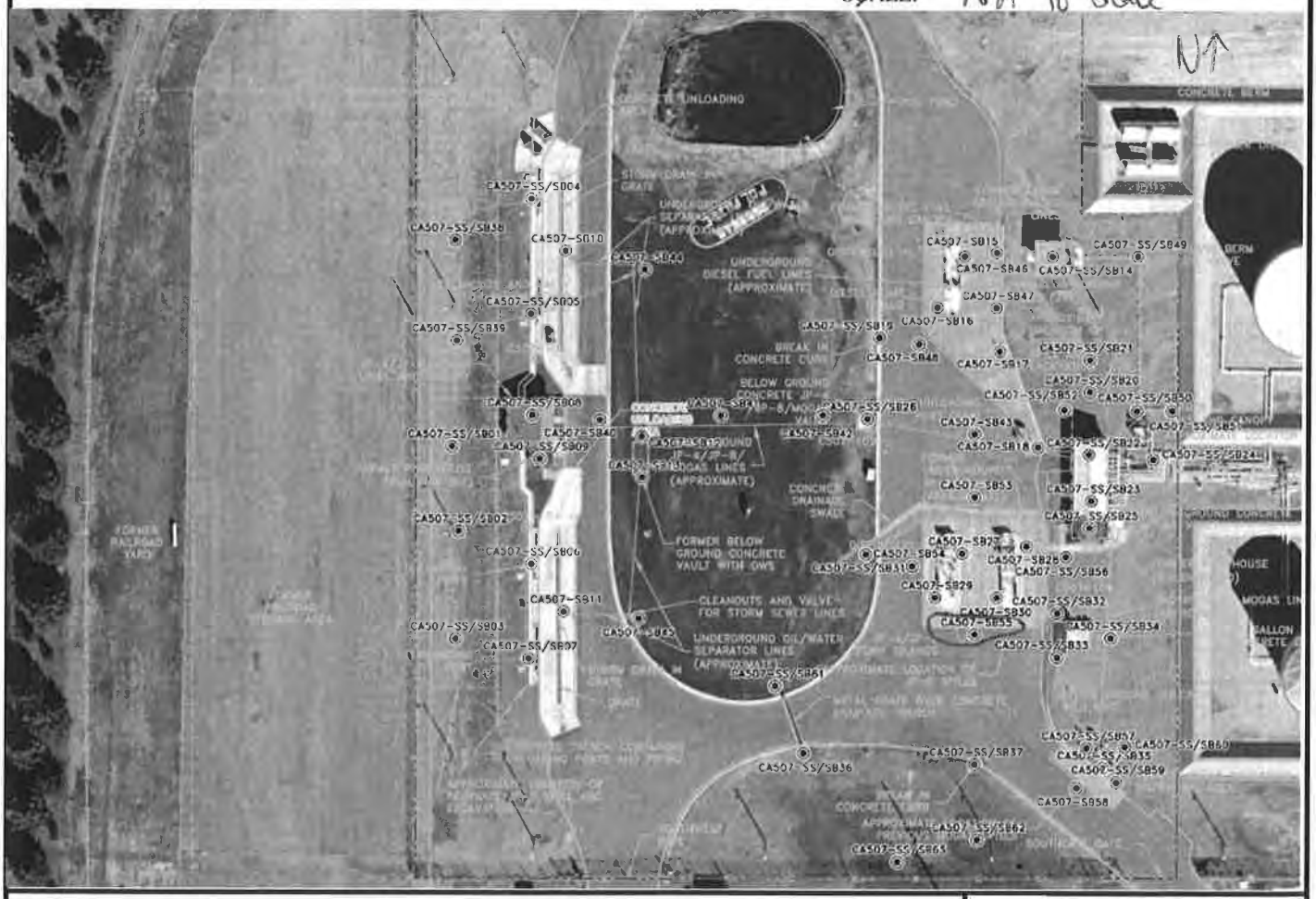
DISTRICT: AFCEC-FA8903-03-D-8783-TO-0169		HOLE NUMBER: CA507-SB55
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve	8. HOLE LOCATION: 1039167.392N, 848033.261E	
	9. SURFACE ELEVATION: 4317.5 ft above msl	
	10. DATE STARTED: 2-7-13	11. DATE COMPLETED: 2-7-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: NA	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	TPH-GRO, ORO, DRO	SVOC + naphthalene	Site specific metals PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite chips	X	—	—	James Gendl

LOCATION SKETCH/COMMENTS — SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB55

HTRW DRILLING LOG

HOLE NO. CA507-SB55

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLI OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA507-SB55-005	PP=Pocket Pen PP=1.5	START TIME = 1335 Time (T) 1340 Recovery (R) 5.0/5.0
	1	Sandy SILT (ML) - Stiff, moist, brown, medium plastic	BKG=ND HS=ND				Fill
	2					PP=2.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3					PP=2.5	
	4	Becomes light tan, ~~hard~~ very stiff					Native soil
	5		HS=ND		CA507-SB55-010		T=1347 R=5.0/5.0
	6					PP=2.5	
	7						
	8	Becomes light brown, with increasing sand					
	9						
	10	Bottom of Boring 10'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB55

HTRW DRILLING LOG

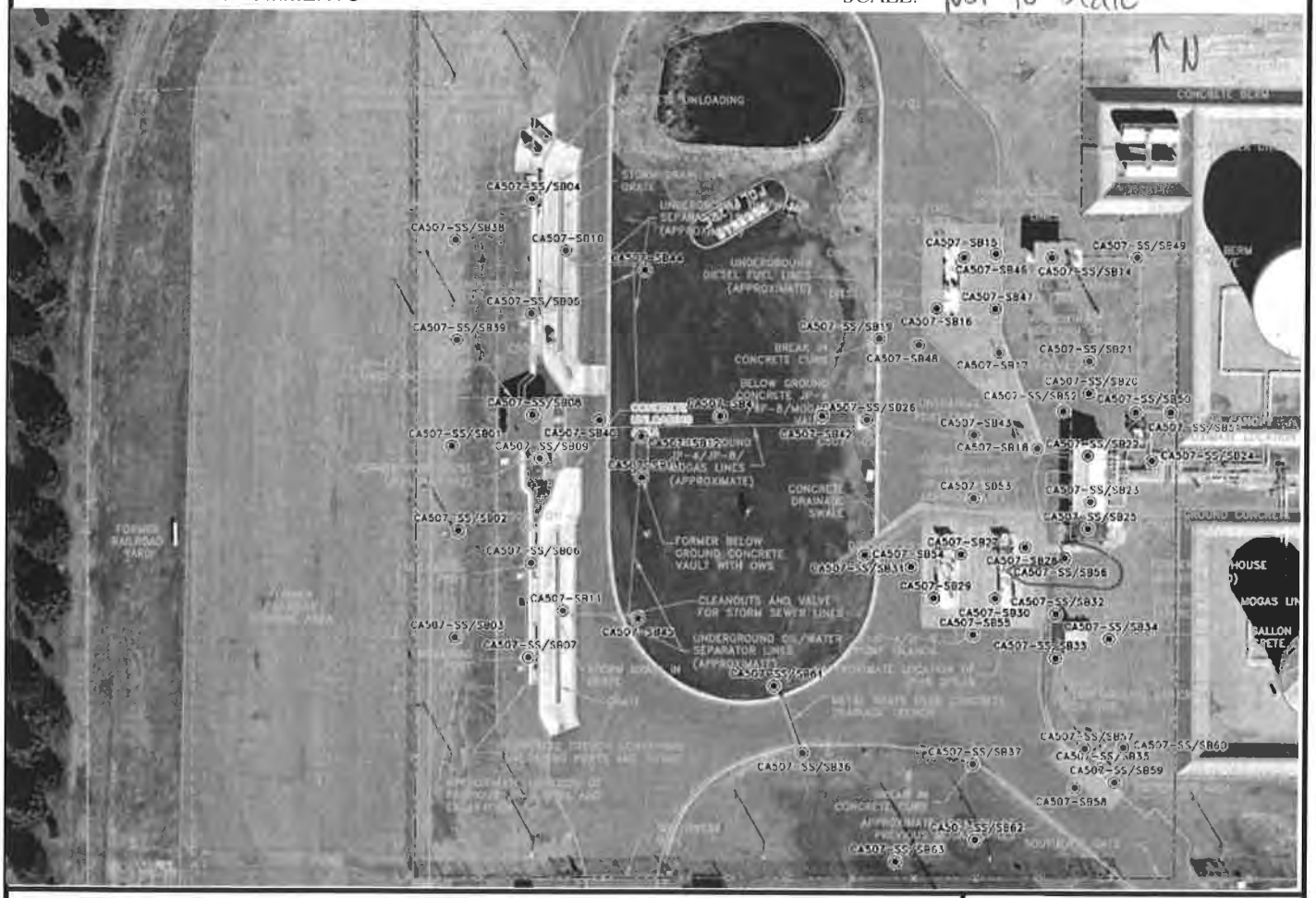
DISTRICT: AFCEC-FA8903-09-D-8783-TO-0169		HOLE NUMBER: CA507-SB56
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe MacroCore, 1 5/8" diameter sample sleeve		8. HOLE LOCATION: 1239210.117N, 848083.001E
		9. SURFACE ELEVATION: 4317.5 ft above msl
		10. DATE STARTED: 2-13-13 / 11. DATE COMPLETED: 2-13-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 10' bgs		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTRICTBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 + dup	—	lead	TPH-DRO, ORO, GRO	BTEX + Naphthalene	site-related SVOCs, PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB56

HTRW DRILLING LOG

HOLE NO. CA507-SB56

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sandy SILT (ML) - Very stiff, dry, light brown, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface soil: CA507-SS6-001 Time: 1450	PP=Pocket Pen	START TIME = 1452
	1		BKG = ND HS = ND		CA507-SB56-004 + dup	PP=3.5	Time (T) = 1455 Recovery (R) = 40/5.0 Fill
	2					PP=2.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	with trace gravel					
	4				NR		
	5		HS = 0.1		CA507-SB56-010		T = 1502 R = 5.0/5.0
	6	With increasing sand				PP=3.0	
	7	SAND (SP) - Loose, dry, reddish brown, fine grained					
	8						
	9	SILT (ML) - Very stiff, dry, light tan, low plastic, with calcareous nodules				PP=2.5	Native soil
	10	Bottom of boring - 10' bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB56

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-09-D-8783-TO-0169		HOLE NUMBER: CA507-SB57
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Noid		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macro core 1 5/8 inch dia sample sleeve		8. HOLE LOCATION: 1239104.723N, 848094.68E
		9. SURFACE ELEVATION: 4317.2 ft above msl
		10. DATE STARTED: 2-7-13 / 11. DATE COMPLETED: 2-7-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 10 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 + dup	—	Lead	TPH-GRO, DRO, ORO	brex + naphthalene	site related sucs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Chris Carroll

LOCATION SKETCH/COMMENTS

SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB57

HTRW DRILLING LOG

HOLE NO. CA507-SB57

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sandy SILT (ML) - Stiff, moist, light brown, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		Surface Soil CA507-SS57-001 T=1052	PP=Pocket Pen	START TIME = 1050
	1	Becomes very stiff	HS=ND		CA507-SB57-004 + dup	PP=3.0	Time (T) 1105 Recovery (R) 4.0/5.0
	2					PP=2.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	Becomes stiff				PP=2.0	
	4				NR		
	5		HS=ND		CA507-SB57-010		T=1115 R=5.0/5.0
	6	Becomes very stiff				PP=3.0	
	7					PP=2.0	
		Becomes stiff					
	8						
	9					PP=2.0	
		SAND (SP) - loose, moist, light brown fine grained					
	10	Bottom of Boring 10'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB57

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-09-D-8783-TO-0169		HOLE NUMBER: CA507-SB58
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 3/8 inch dia sample sleeve		8. HOLE LOCATION: 1239090.51N, 848077.09SE
		9. SURFACE ELEVATION: 4317.2 ft above msl
		10. DATE STARTED: 2-7-13 / 11. DATE COMPLETED: 2-7-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 10 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	TPH-DRO ORO, GRO	BTEX + naphthalene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated bentonite chips	X	—	—	James Condi

LOCATION SKETCH/COMMENTS

SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB58

HTRW DRILLING LOG

HOLE NO. CA507-SB58

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conrad

SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA507-SB58-004	PP=Pocket Pen	START TIME = 0810
		SAND (SP) - loose, moist, reddish brown, fine grained	BKG=ND HS=ND				Time (T) 0818 Recovery (R) 4.0/5.0
	1						Fill
		Clayey SILT - (ML) - Stiff, moist, brown, medium plastic				PP=2.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2	Becomes very stiff					
						PP=4.0	
	3	Becomes light tan with decreasing clay					Becomes Native soil
	4		NR				
	5		HS=ND		CA507-SB58-010		T=0830 R=5.0/5.0
	6					PP=3.0	
	7						
						PP=2.5	
	8						
		Silty SAND (SM) - loose, moist, reddish brown fine grained					
	9						
	10	Bottom of Boring 10'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB58

HTRW DRILLING LOG

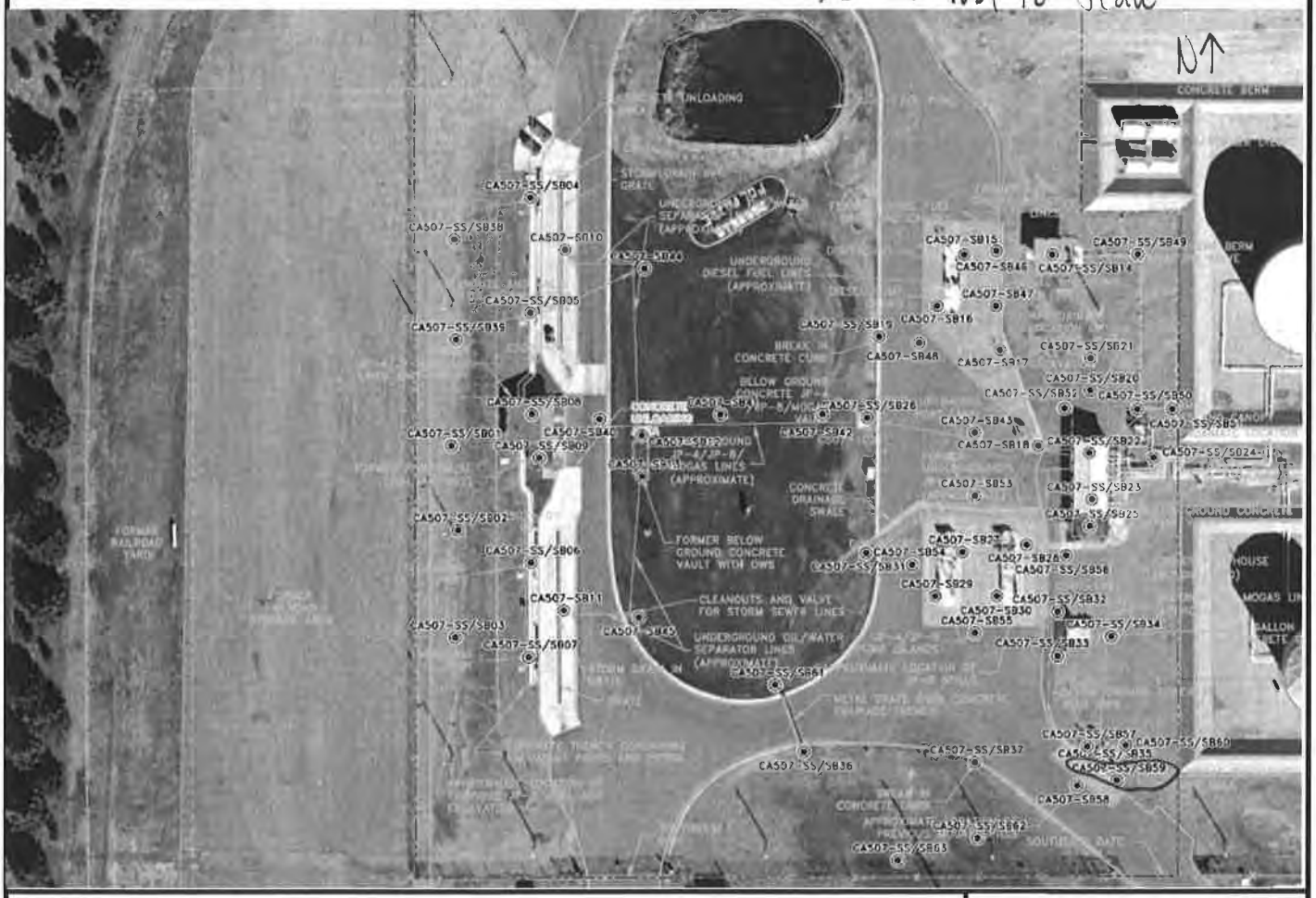
DISTRICT: AFCEC - FA8905 - 07 - D - 8785 - TO - 0109		HOLE NUMBER: CA507-SB59
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 1/8 inch dia Sample sleve	8. HOLE LOCATION: 1239086.103N, 848110.874E	
	9. SURFACE ELEVATIC: 4317.2 Ft above msl	
	10. DATE STARTED: 2-7-13	11. DATE COMPLETED: 2-7-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 10 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	—	Lead	TPH-GRO DRO ORO	Btex + Napthalene	Site specific PCBs	%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[illegible]

LOCATION SKETCH/COMMENTS SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB59

HTRW DRILLING LOG

HOLE NO. CA507-SB59

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 2 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sandy SILT (ML) - Stiff, moist, light brown low plastic with gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface Soil CA507-SS59-001 Time=0845	PP=Pocket Pen	START TIME = 0845 Time (T) 0900 Recovery (R) 4.0/5.0
			BKG=ND HS=ND		CA507-SB59-004	PP=2.0	Fill
	1	with decreasing gravel					
	2	Becomes very stiff				PP=3.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						Native soil
		Becomes light tan				PP=3.0	
	4				NR		
	5	with gravel	HS=ND		CA507-SB59-010	PP=3.0	T=0915 R=5.0/5.0
	6						
	7					PP=4.0	
	8						
	9	Becomes stiff				PP=2.0	
	10	Bottom of Boring 10'					

HTRW DRILLING LOG

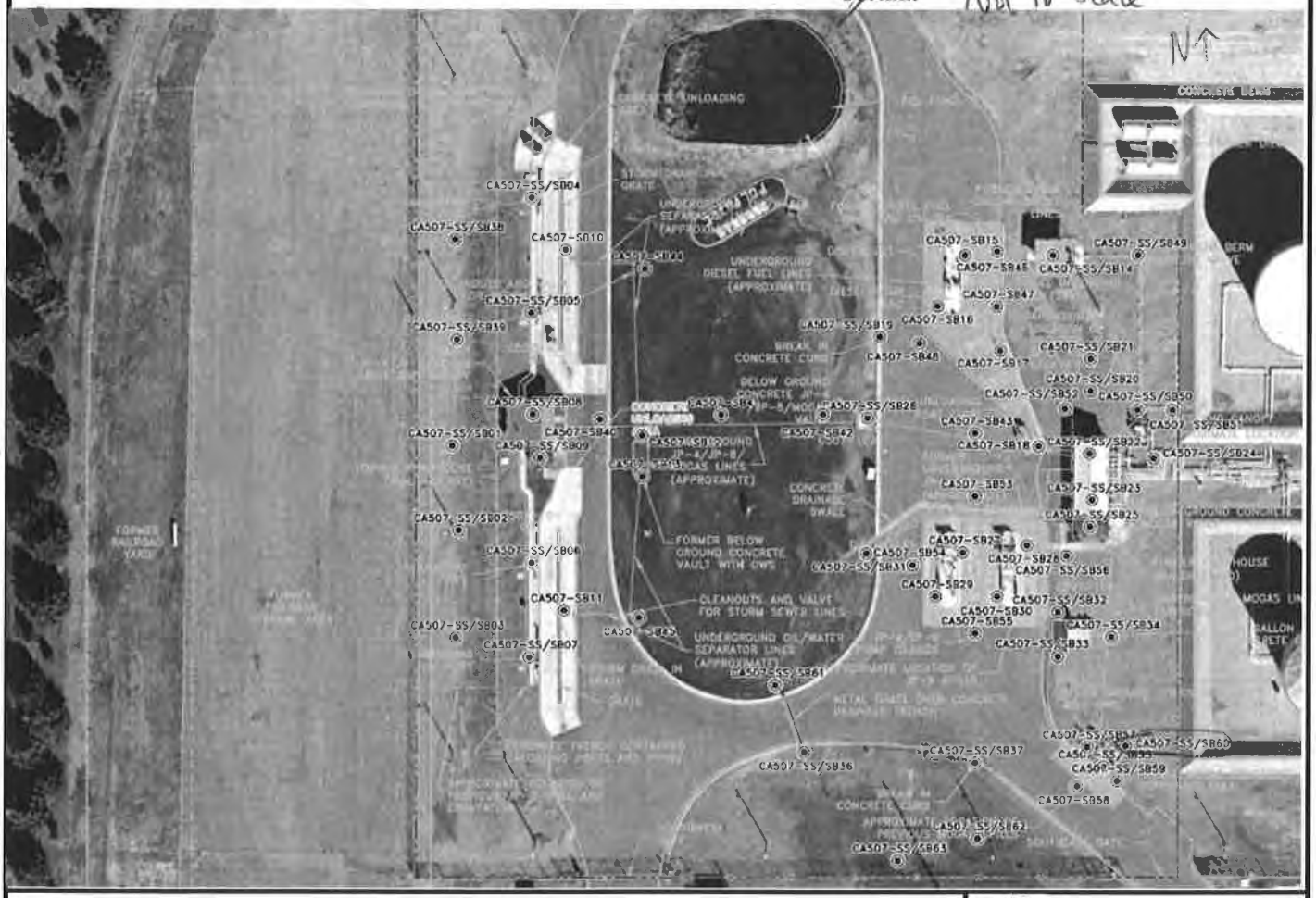
DISTRICT: AFCEC-FA8903-08-D-8795-TO-0109	HOLE NUMBER: CA507-SB60	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Wold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore, 1 1/8 inch dia Sample sleeve	8. HOLE LOCATION: 1239105.398N, 848115.598E	
	9. SURFACE ELEVATION: 4317.2 ft. above msl	
	10. DATE STARTED: 2-7-13	11. DATE COMPLETED: 2-7-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 10' ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	—	Lead	TPH, DRO, ORO, GRO	Btex + methanol	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	James Conrad

LOCATION SKETCH/COMMENTS SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB60

HTRW DRILLING LOG

HOLE NO. CA507-SB60

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sandy SILT (ML) - Stiff, moist, light brown, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		Surface Soil CA507-SS60 T=1245	PP=Pocket Pen PP=2.0	START TIME = 1245 Fill Time (T) 1255 Recovery (R) 4.0/5.0
	1		BKG=ND HS=ND		CA507-SB60 -004		
	2					PP=2.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3					PP=2.0	
		Becomes light tan					Native Soil
	4				NR		
	5		HS=ND		CA507-SB60 -010		T=1305 R=5.0/5.0
		Becomes light brown Becomes Hard				PP=4.0	
	6						
	7					PP=>4.0	
	8	Becomes light tan					
	9					PP=4.0	
	10	Bottom of Boring 10'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB60

HTRW DRILLING LOG

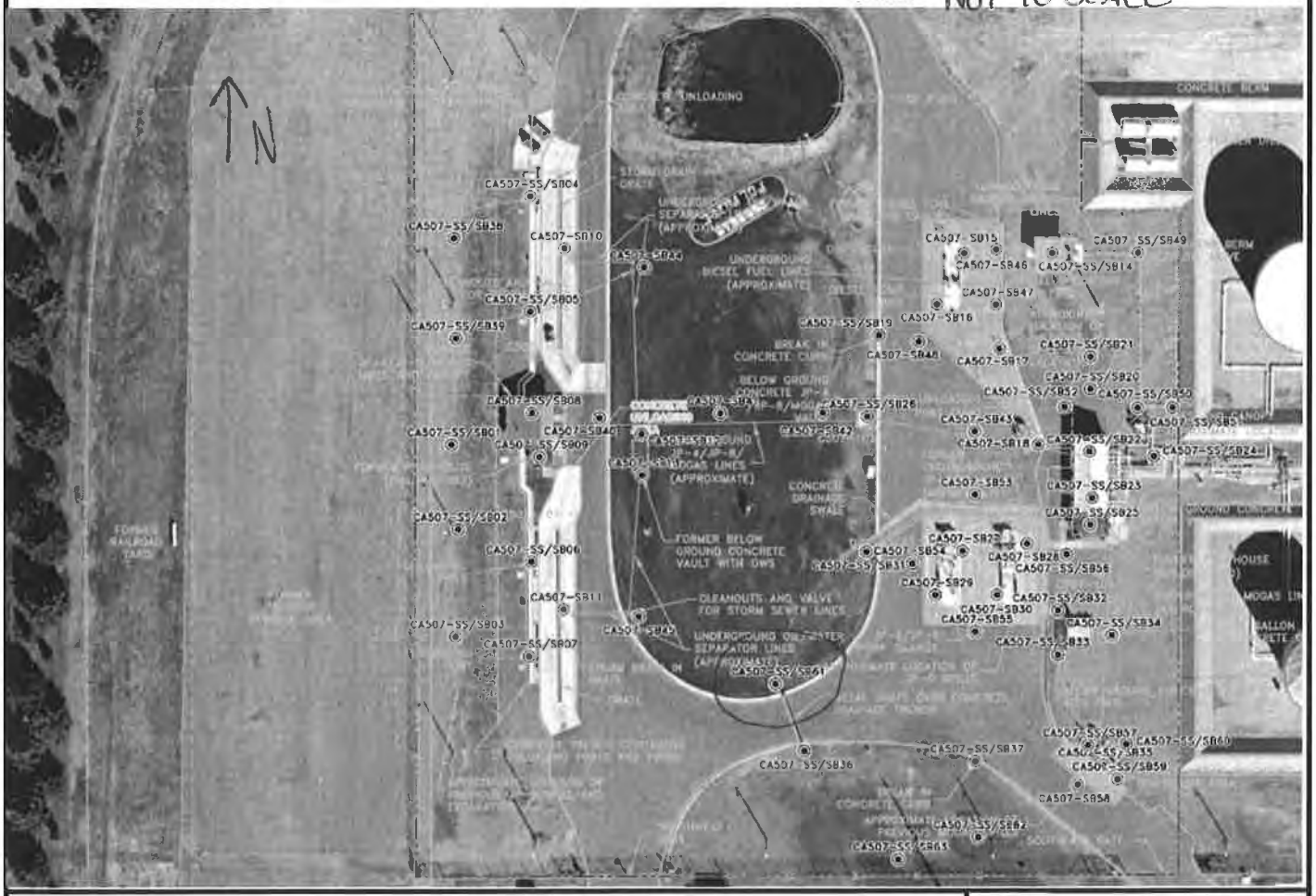
DISTRICT: AFCEC - FA8905-08-D-8783-TO-0109		HOLE NUMBER: CA507-SB61
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA507-SB61, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kolvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler with a 1 5/8" Diameter Sampler		8. HOLE LOCATION: 1239138.666N, 847924.552E
		9. SURFACE ELEVATION: 4317.4 ft above msl
		10. DATE STARTED: 2-4-13 @ 1410 / 11. DATE COMPLETED: 2-4-13 @ 1430
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 10 feet (ft) belowground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 + MS/MSD	BTEX + Naphthalene	Lead	Site Specific SVOCs	TPH-GRO/ORO/DRO	PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer Allen

LOCATION SKETCH/COMMENTS — SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB61

HTRW DRILLING LOG

HOLE NO. CA507-SB61

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer [illegible]

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	GRAVEL and Silty SAND (GP-SM)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA507-SB61-001	PP=Pocket Pen	START TIME = 1410
	1	SILT (CL) - Medium Stiff, moist, brown, low to medium plasticity, Some trace very fine sand	BKG=ND			PP=2.0	Time (T) Recovery (R) T=1421 R=5.0'/5.0'
	2		FS=ND HS=ND		CA507-SB61-005 TPH-GRO, BTEX Collected from the bottom of the sample interval	PP=2.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	Sharp Color change					
	4	SILT (ML) - Stiff, moist, pale tan with pale orange mottling, Slight plasticity				PP=2.5	
	5	Some white caliche mottling with trace fine caliche nodules					
	6		FS=ND HS=ND		CA507-SB61-010 Extra volume for MS/MSD		T=1430 R=5.0'/5.0'
	7	Some reddish brown silty sand 7.0'-7.8'			TPH-GRO BTEX collected from the bottom of the sample interval		
	8						
	9						END TIME =1430
	10	Bottom of Boring @ 10 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB61

HTRW DRILLING LOG

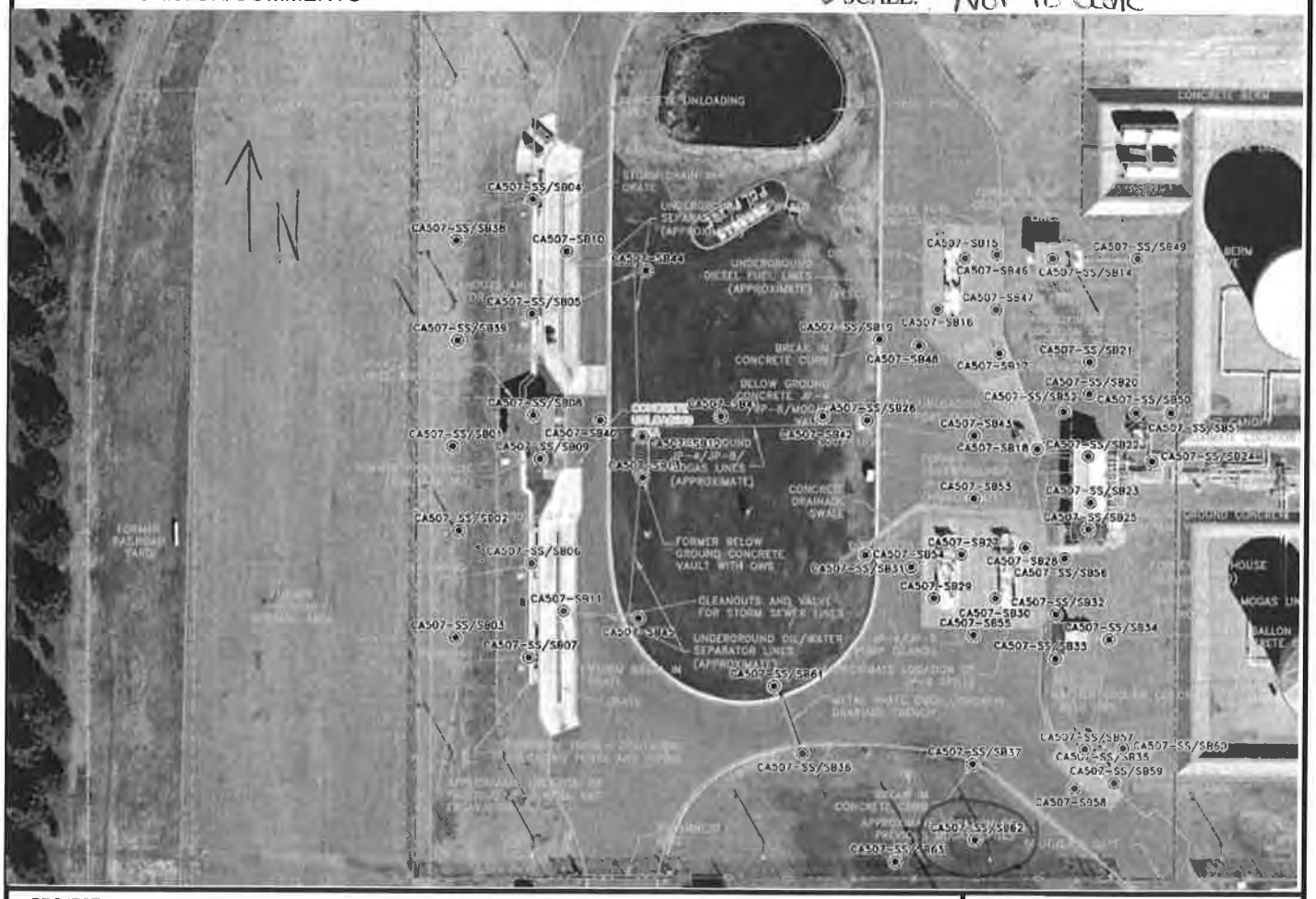
DISTRICT: AFCEC-FA8903-08-D-8785-TO-0169		HOLE NUMBER: CA507-SB62
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA507-SB62, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jessie Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6022 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-feet long Macro Core Sampler with a 1 5/8" Sample liner diameter	8. HOLE LOCATION: 1239054.269N, 848034.947E	
	9. SURFACE ELEVATION: 4316.7 ft above msl	
	10. DATE STARTED: 2-4-13 @ 0955	11. DATE COMPLETED: 2-4-13 @ 1005
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 10 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3+ MS/MSD	BTEX + Naphthalene	Lead	Site-Related SVOCs	TPH-GRO/DRO/ORO	PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	Jennifer L Allen

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB62

HTRW DRILLING LOG

HOLE NO. CA507-SB62

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer Miller

SHEET 2 OF SHEETS 2

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS d.	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Sandy SILT (ML) - Stiff, moist, brown, low plasticity, fine sand	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		CA507-SS62-001	PP=Pocket Pen PP=3.0	START TIME = 0955 Time (T) Recovery (R)
	1						T= 1000 R=5.0'/5.0'
	2	Becomes reddish-brown, decreased sand	FS=ND HS=ND		CA507-SB62-005 BTEX/TPH-GRO Collected from the bottom of the sample interval		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	Lightens to pale orangish-tan, becomes medium stiff				PP=1.5	
	4						
		Becomes SILT (ML), no sand					
	5						
		Some caliche mottling with trace fine caliche nodules					
	6					PP=2.0	T= 1009 R=5.0'/5.0'
	7		FS=ND HS=ND		CA507-SB62-010 BTEX/TPH-GRO Collected from the bottom of the sample interval		
	8						
	9					PP=2.0	END TIME =1005
	10	Bottom of Boring @ 10.0 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB62

HTRW DRILLING LOG

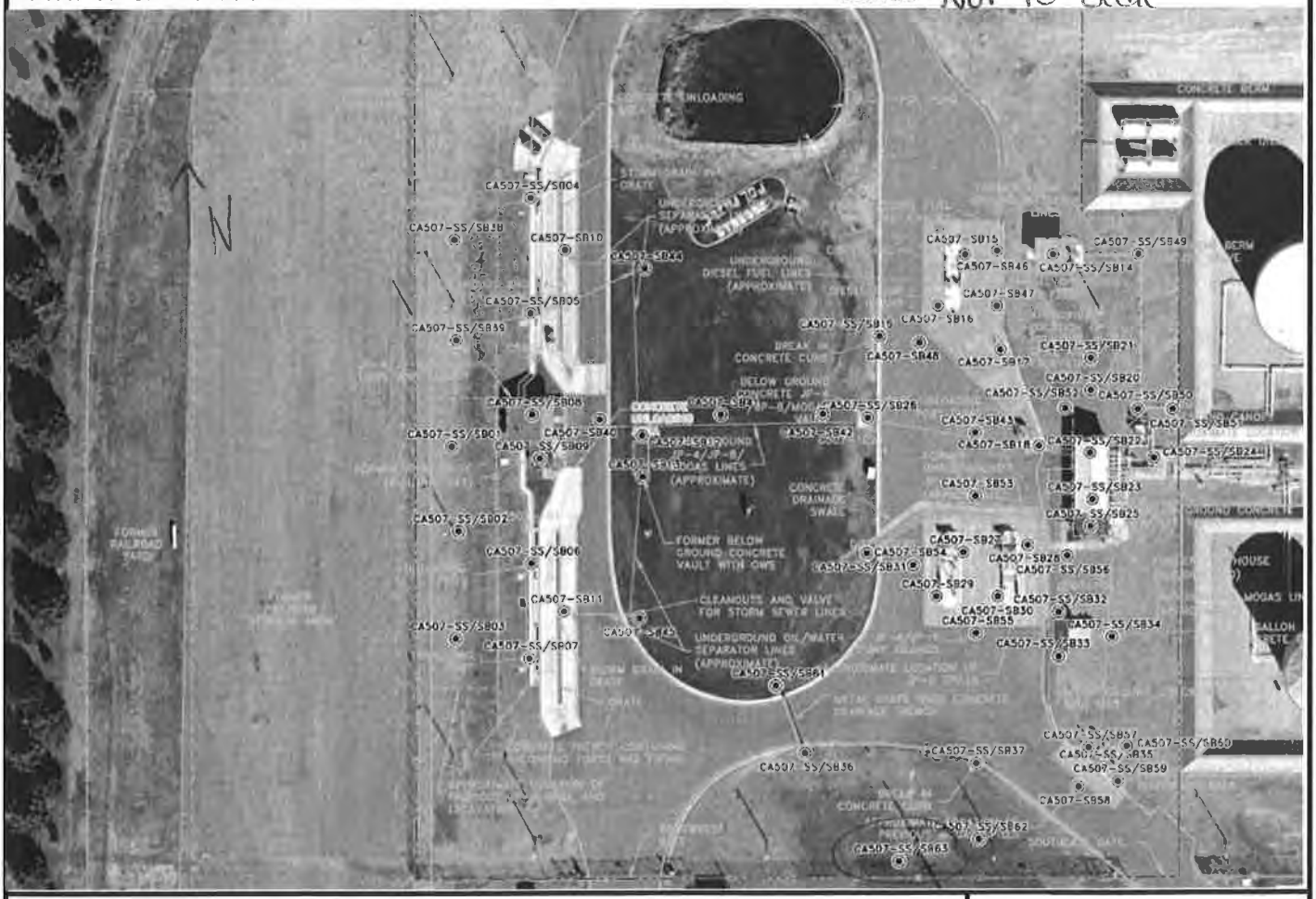
DISTRICT: AFCEC-FA8903-08-D-8785-TO-0129		HOLE NUMBER: CA507-SB63
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 2 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA507-SB63, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-feet long Macro Core Sampler with a 1 5/8" diameter sample liner		8. HOLE LOCATION: 1239092.143 N, 847991.577 E
		9. SURFACE ELEVATION: 4316.7 ft above msl
		10. DATE STARTED: 2/4/13 @ 1051
		11. DATE COMPLETED: 2/4/13 @ 1110
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 10 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø			N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 + MS/MSD	BTEX + Naphthalene	Lead	Site Related SVOC	TPH-GRO/DRO/ORO	PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer [illegible]

LOCATION SKETCH/COMMENTS — SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB63

HTRW DRILLING LOG

HOLE NO. CA507-SB63

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer R Allen

SHEET 2 OF SHEETS 2

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	SILT (CL) - Medium Stiff, moist, brown, low to medium plasticity	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		CA507-SS63-005	PP=Pocket Pen PP=2.0	START TIME = 1051 Time (T) Recovery (R)
	1						T=1100 R=5.0'/5.0'
					CA507-SB63-005		Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2		FS=ND HS=ND		TPH-GRO, BTEX collected from the bottom of the sample interval	PP=2.0	
	3						
	4	SILT (ML) - Medium Stiff, moist, pale orangish-brown, slight plasticity, Some fine sand				PP=1.5	
	5						
	6	Becomes calcareous, pale orangish tan with white caliche mottling, Stiff,			CA507-SB63-010 Extra Volume for MS/MSD	PP=3.0	T=1110 R=5.0'/5.0'
	7		FS=ND HS=ND		TPH-GRO, BTEX collected from the bottom of the sample interval		
	8	Becomes a Clayey SILT (ML), medium Stiff, moist, pale orangish grey with orange mottling				PP=1.5	
	9						END TIME = 1110
	10	Bottom of Boring @ 10 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB63

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA507-SB64	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve	8. HOLE LOCATION: 1239445.595N, 848082.757E	
	9. SURFACE ELEVATION: 4319.0 ft above msl	
	10. DATE STARTED: 2-8-13	11. DATE COMPLETED: 2-8-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

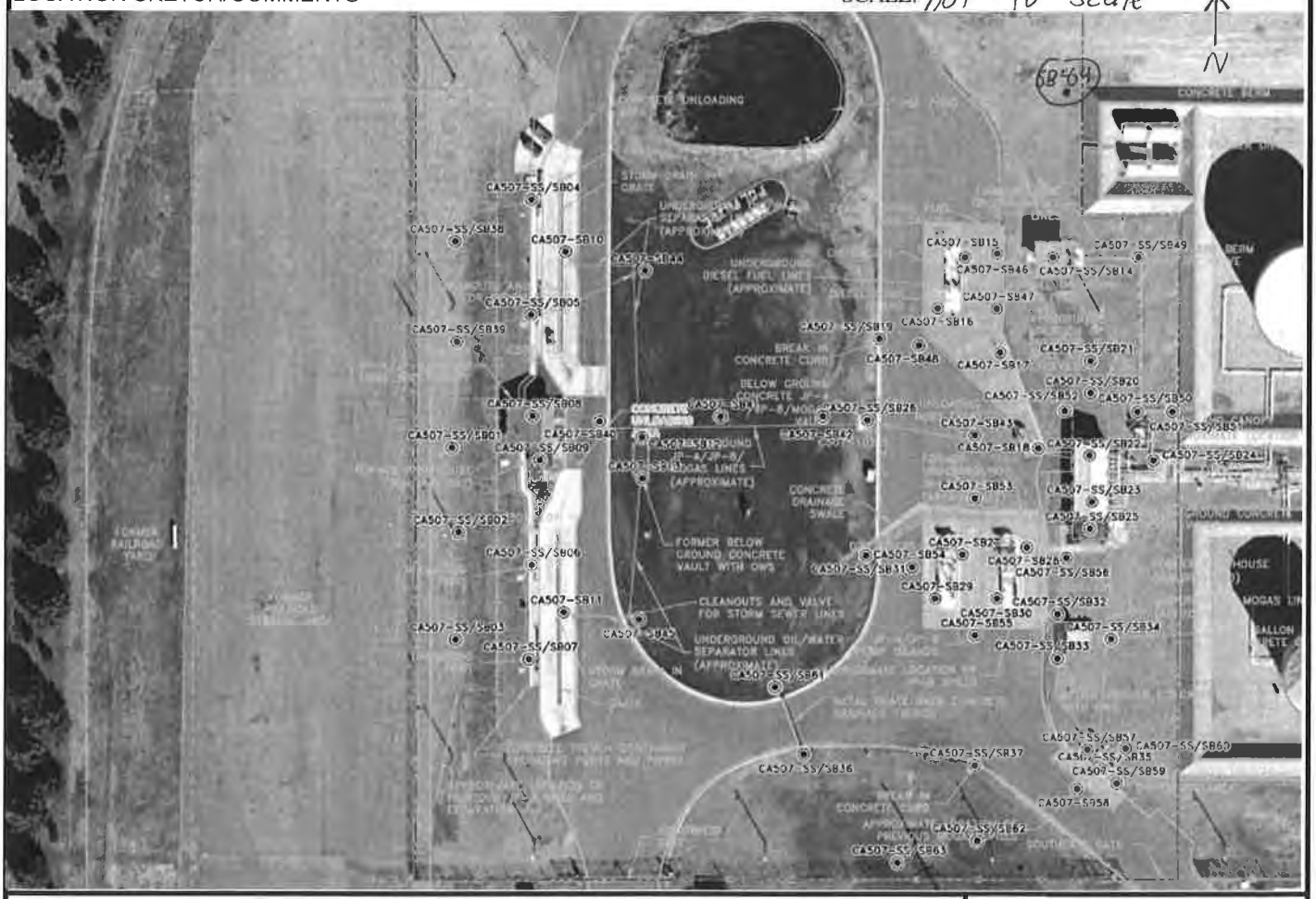
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2 + dup	—	Lead	TPH-GRO, ORO, DRO	Btex + naphthalene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	James Conrad

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB64

HTRW DRILLING LOG

HOLE NO. CA507-SB64

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR:

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravelly SAND (SP) - loose, dry, brown	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=ND		none	PP=Pocket Pen PP=4.0	START TIME = 0933 Time (T) 0933 Recovery (R) 4.0/5.0
	1	Sandy SILT (ML) - Hard, moist, light brown, low plastic					Fill Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2					PP=4.0	
	3					PP=3.0	
	4	Becomes very stiff					
	5		HS=ND		CA507-SB64-010 + dup		T=0940 R=5.0
	6	with calcareous nodules					Native Soil
	7						
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB64

HTRW DRILLING LOG

HOLE NO. CA507-SB64

PROJECT .e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) - Very stiff, moist, light brown, low Plastic	Hs = ND		CA507-SB64 -015	PP=2.5	T = 0950 R = 5.0/5.0
	11	with Calcareous Nodules					
	12					PP=3.0	
	13					PP=3.0	
	14						
	15	Bottom of Boring 15'					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB64

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-09-D-8783-TO-0169		HOLE NUMBER: CA507-SB65
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe ~~5410~~ 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia. sample sleeve		8. HOLE LOCATION: 1239425.337 N, 848083.532 E
		9. SURFACE ELEVATION: 4319.0 ft above msl
		10. DATE STARTED: 2-8-13 / 11. DATE COMPLETED: 2-8-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

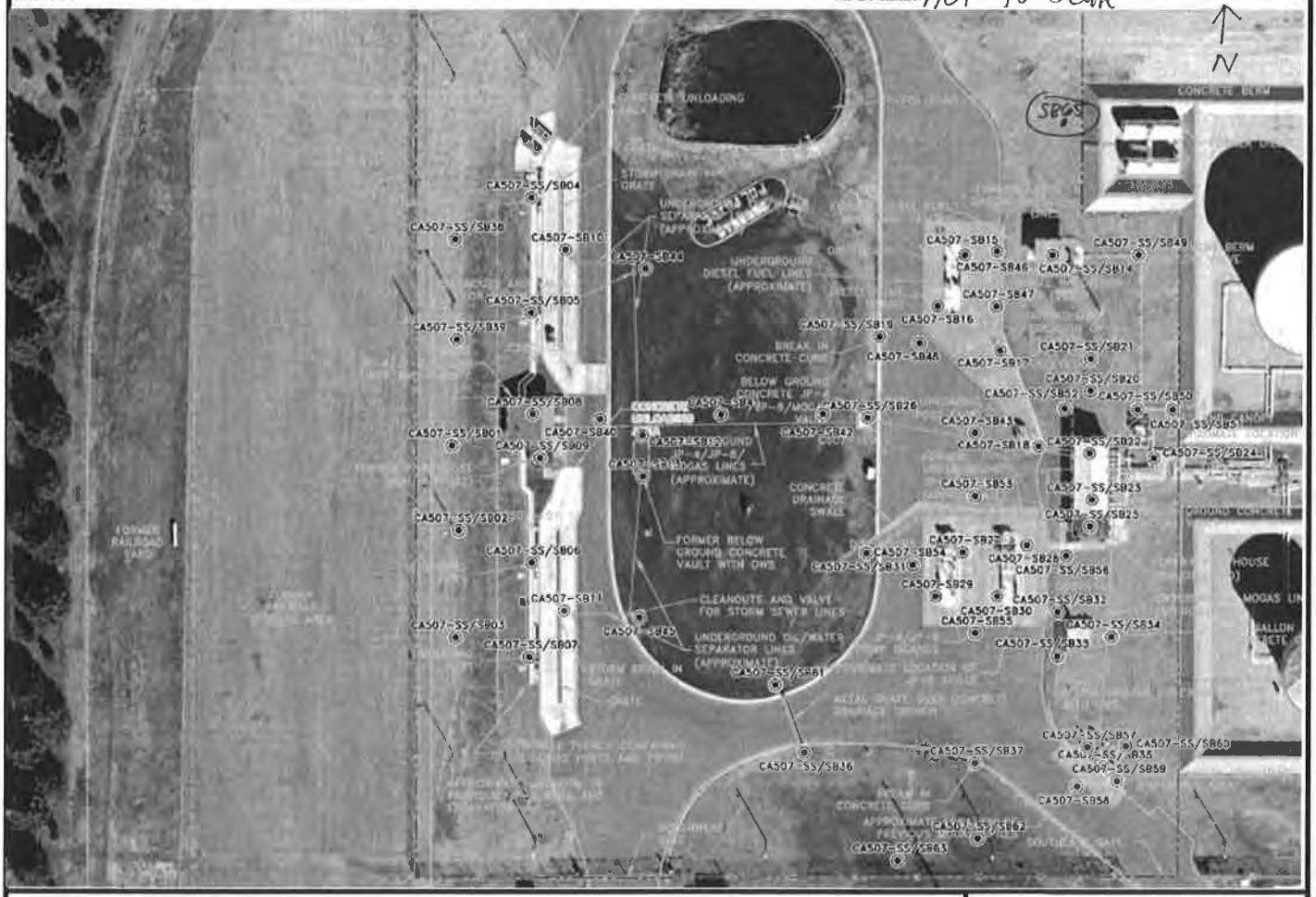
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2 + MS/MSD	—	Lead	Btex + Naphthalene	TPH-GRO, DRO	SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB65

HTRW DRILLING LOG

HOLE NO. CA507-SB65

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAND (SP) - loose, dry, brown, fine grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		none	PP=Pocket Pen PP=4.0	START TIME = 1008 Time (T) 1015 Recovery (R) 5.0/5.0
	1	Sandy SILT (ML) Hard, moist, light brown, low plastic	HS=ND				Fill Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2					PP=3.0	
		Becomes very stiff					
	3						
	4	light tan				PP=2.5	
	5		HS=ND		CA507-SB65-010	PP=3.5	T=1025 R=5.0/5.0
	6						
	7					PP=3.5	
	8						Native Soil
	9	Becomes light tan, stiff, with calcareous nodules dry,				PP=2.0	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB65

HTRW DRILLING LOG

HOLE NO. CA507-SB65

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conrad

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME: Sandy SILT (ML) ~~very stiff~~. dry, light tan low plastic, calcareous nodules	Hs = ND		CA507SB65 -045 +MS/MSD	PP = 3.0	T = 1035 R = 5.0/5.0
	11						
	12					PP = 2.5	
	13						
	14	Becomes stiff				PP = 2.0	
	15	Bottom of Boring 15'					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB65

HTRW DRILLING LOG

DISTRICT: AFCEC-FA3903-03-D-3783-TO-0169	HOLE NUMBER: CA507-SB66	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 inch dia sample sleve	8. HOLE LOCATION: 1239392.564N, 848065.46E	
	9. SURFACE ELEVATION: 4319.0 ft above msl	
	10. DATE STARTED: 2-8-13	11. DATE COMPLETED: 2-8-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

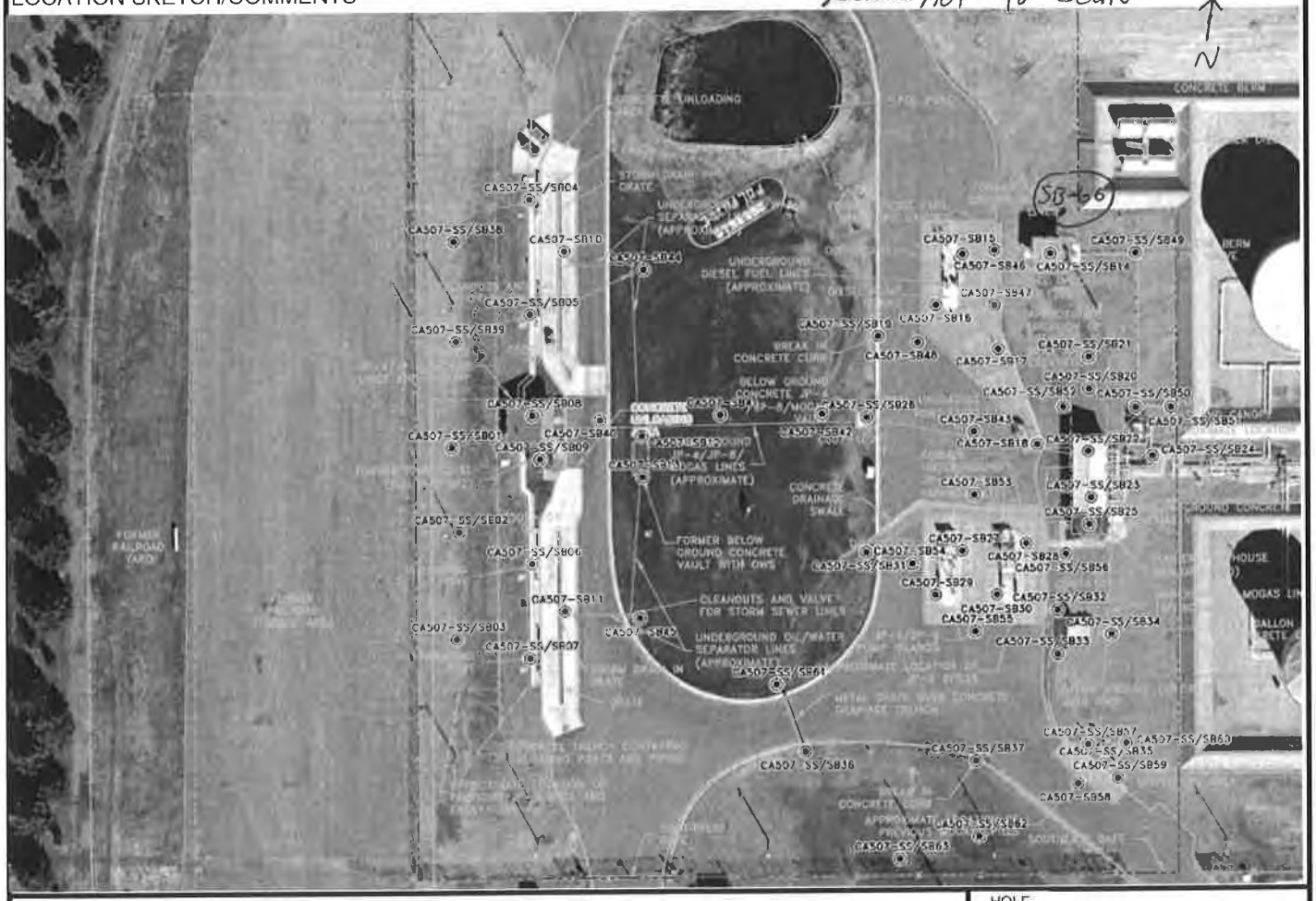
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	Btex + Naphalene	TPH-GRO, DRO, ORO	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB66

HTRW DRILLING LOG

HOLE NO. CA507-SB66

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAND(SP) – loose, dry, brown, fine grained with gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		none	PP=Pocket Pen PP= 3.0	START TIME = 1325 Time (T) 1330 Recovery (R) 5.0/5.0
	1	Sandy SILT(ML) – very stiff, moist, brown, low Plastic	BKG=ND HS=ND				Fill
	2					PP=3.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	~~SILT(ML) stiff, dry, light tan, low plastic~~ Becomes					
	4					PP=2.0 ~~PP=2.0~~	
	5		HS=ND		CA507-SB66-010		T=1340 R=5.0/5.0
	6					PP=2.0	
	7	Calcareous nodules					
	8					PP=1.5	
	9	Silty SAND (SM) – loose, moist, tan, fine grained					Native soil
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB66

HTRW DRILLING LOG

HOLE NO. CA507-SB66

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Same: Silty SAND(SM) loose, moist, tan, fine grained with decreasing silt	HS=ND		CA507-SB66 -015		T=1400 R=5.0/5.0
	11						
	12						
	13						
	14						
		Becomes light tan					
	15	Bottom of Boring 15'					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB66

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8795-TO-0169		HOLE NUMBER: CA507-SB67
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 in. dia sample sleeve		8. HOLE LOCATION: 1239391.273N, 848090.89E
		9. SURFACE ELEVATION: 4319.0 ft above msl
		10. DATE STARTED: 2-8-13 / 11. DATE COMPLETED: 2-8-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
2 + dup	—	Lead	Btex trmethbe	TPH-GRO, ORO, DRO	Site related SVOCs pcbs	NA

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[illegible]

LOCATION SKETCH/COMMENTS

SCALE: not to Scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB67

HTRW DRILLING LOG

HOLE NO. CA507-SB67

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sandy SILT (ML) - very stiff, moist, light brown low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG = ND HS = ND		none	PP=Pocket Pen PP=3.5	START TIME = 1045 Time (T) 1055 Recovery (R) 4.0
	1						
	2					PP=3.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3					PP=1.5	
		Becomes medium stiff					
	4			NR			
	5		HS=ND		CA507-SB67-010 + dup		T = 1105 R = 5.0/5.0
	6	Becomes stiff				PP=2.5	
	7						
	8					PP=2.0	
	9	Becomes light tan, with decreasing sand + calcareous nodules				PP=1.5	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB67

HTRW DRILLING LOG

HOLE NO. CA507-SB67

PROJECT: Site Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conrad

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Some Sandy SILT ~~stiff~~, moist, light tan. increasing sand	HS=NO		CA507-SB67 -015	PD=1.5	T=1115 R=5.0/5.0
	11						
	12	Silty SAND (SP) - loose, moist, light tan fine grained					
	13						
	14						
	15	Bottom of Boring 15'					
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB67

HTRW DRILLING LOG

DISTRICT: AFCEC - FA8903-08-D-8735-TO-0164	HOLE NUMBER: CA507-SB68	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macro core 1 5/8 inch dia Sample Sleeve	8. HOLE LOCATION: 1239347.529N, 848071.009E	
	9. SURFACE ELEVATION: 4317.5 ft above MSL	
	10. DATE STARTED: 2-10-13	11. DATE COMPLETED: 2-10-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

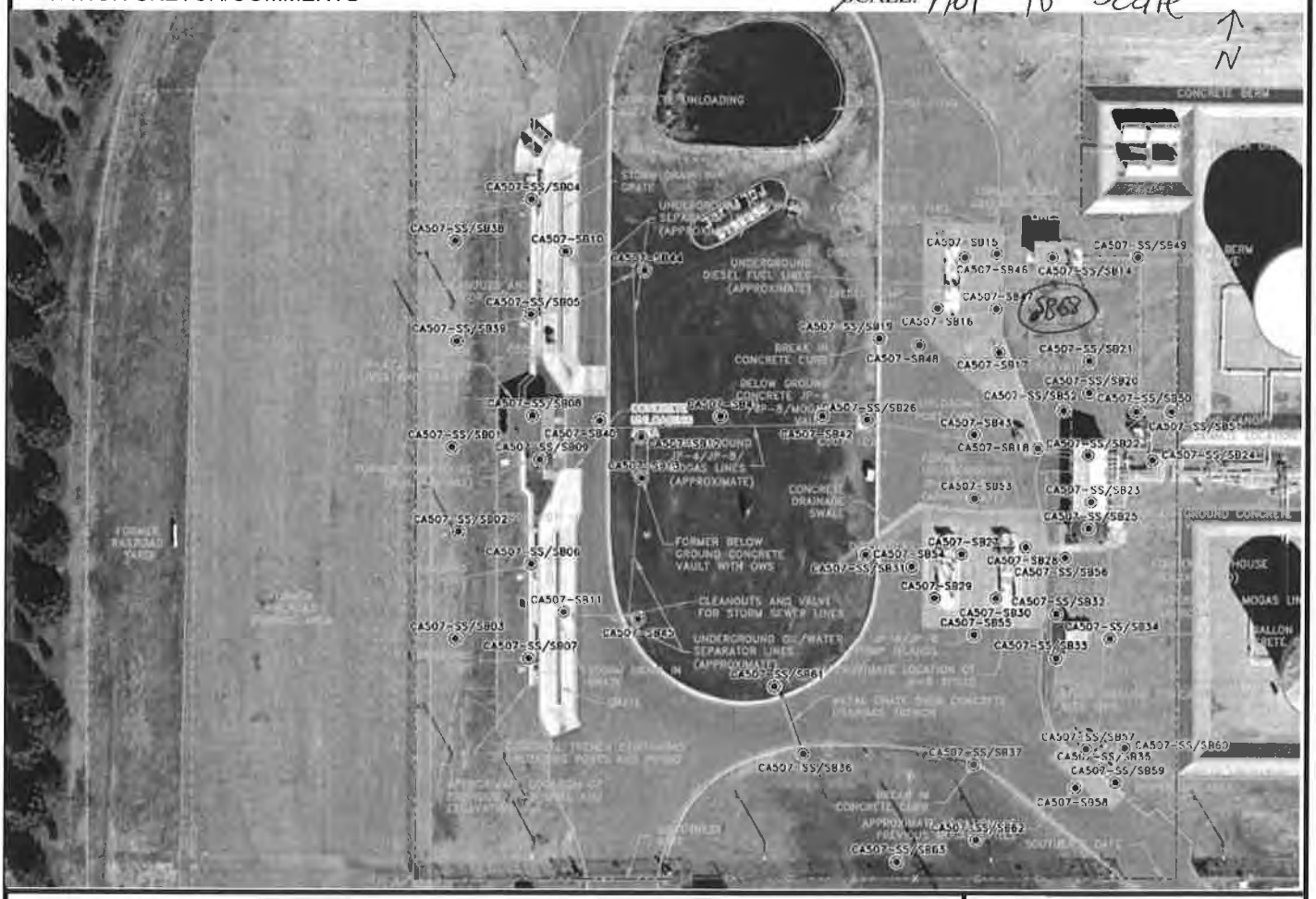
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	TPH- GRO, DRO, DRO	Blex + naphthalene	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Grech

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB68

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA507-SB68

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
		Sandy SILT (ML) - Hard, moist, brown, medium plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=ND		none	PP=Pocket Pen PP=>40	START TIME = 1445 Time (T) 1500 Recovery (R) 4.0/5.0
	1						Fill
		Becomes very stiff				PP=30	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2						
	3						
		Becomes light tan, stiff				PP=20	
	4				NR		
	5				CA507-SB68-010		T=1505 R=5.0/5.0
		Becomes very stiff, with calcareous nodules	HS=ND			PP=35	
	6						
						PP=35	
	7						
	8						
		~~SILT (ML) stiff, dry, light tan, low plastic. Becomes with calcareous nodules~~ with NO Sand				PP=20	Native soil
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB68

HTRW DRILLING LOG

HOLE NO. CA507-SB68

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conradi

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Same: SILT (ML) - stiff, dry, light tan, low plastic with calcareous nodules	HS=0.9		CA507-SB68-01B	PP=3.0	T=1515 R=5.0/5.0
		Becomes light brown, very stiff					
	11					PP=2.5	
	12						
	13					PP=2.0	
	14						
		Bottom of Boring 15'					
	15						
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB68

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8793-TO-0169		HOLE NUMBER: CA507-SB69
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia Sample sleeve		8. HOLE LOCATION: 1239326.397N, 848082.255E
		9. SURFACE ELEVATION: 4317.5 ft above msl
		10. DATE STARTED: 2-10-13 / 11. DATE COMPLETED: 2-10-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	TPH GRO, DRO, ORO	Btex + Naphthalene	Site related cocs pcbs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	James Cordell

LOCATION SKETCH/COMMENTS SCALE: not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB69

HTRW DRILLING LOG

HOLE NO. CA507-SB69

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR:

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
		Gravelley SAND(SP)- loose, dry, brown, fine grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		none	PP=Pocket Pen	START TIME = 1405
		Sandy SILT(ML)- Hard, moist, light brown, medium Plastic	BKG=ND HS=ND			PP=4.0	Time (T) = 1412 Recovery (R) = 4.0 Fill
	1						
	2	Becomes very stiff				PP=3.0	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
		Becomes very stiff, light tan				PP=2.5	
	4			NR			
	5				CA507-SB69-010		T = 1420 R = 5.0/5.0
		Becomes light brown	HS=1.7			PP=2.5	
	6						
	7	Becomes Hard, with calcareous nodules				PP>4.0	
	8						
	9	Becomes very stiff				PP=3.0	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB69

HTRW DRILLING LOG

HOLE NO. CA507-SB69

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) - stiff, moist, light brown medium plastic	HS=9.7		CA507-SB69-015	PP=1.5	T=1430 R=5.0/50
	11						
	12	Becomes light tan				PP=1.5	Native soil
	13						
	14					PP=2.0	
	15	Bottom of Boring 15 ft					
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB69

HTRW DRILLING LOG

DISTRICT: AFCEC-FA3903-03-D-3785-TO-0169		HOLE NUMBER: CA507-SB70
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe macrocore 1 5/8 inch dia sample sleeve		8. HOLE LOCATION: 1239270.666N, 847791.541E
		9. SURFACE ELEVATION: 4320.0 ft above msl
		10. DATE STARTED: 2-12-13 / 11. DATE COMPLETED: 2-12-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

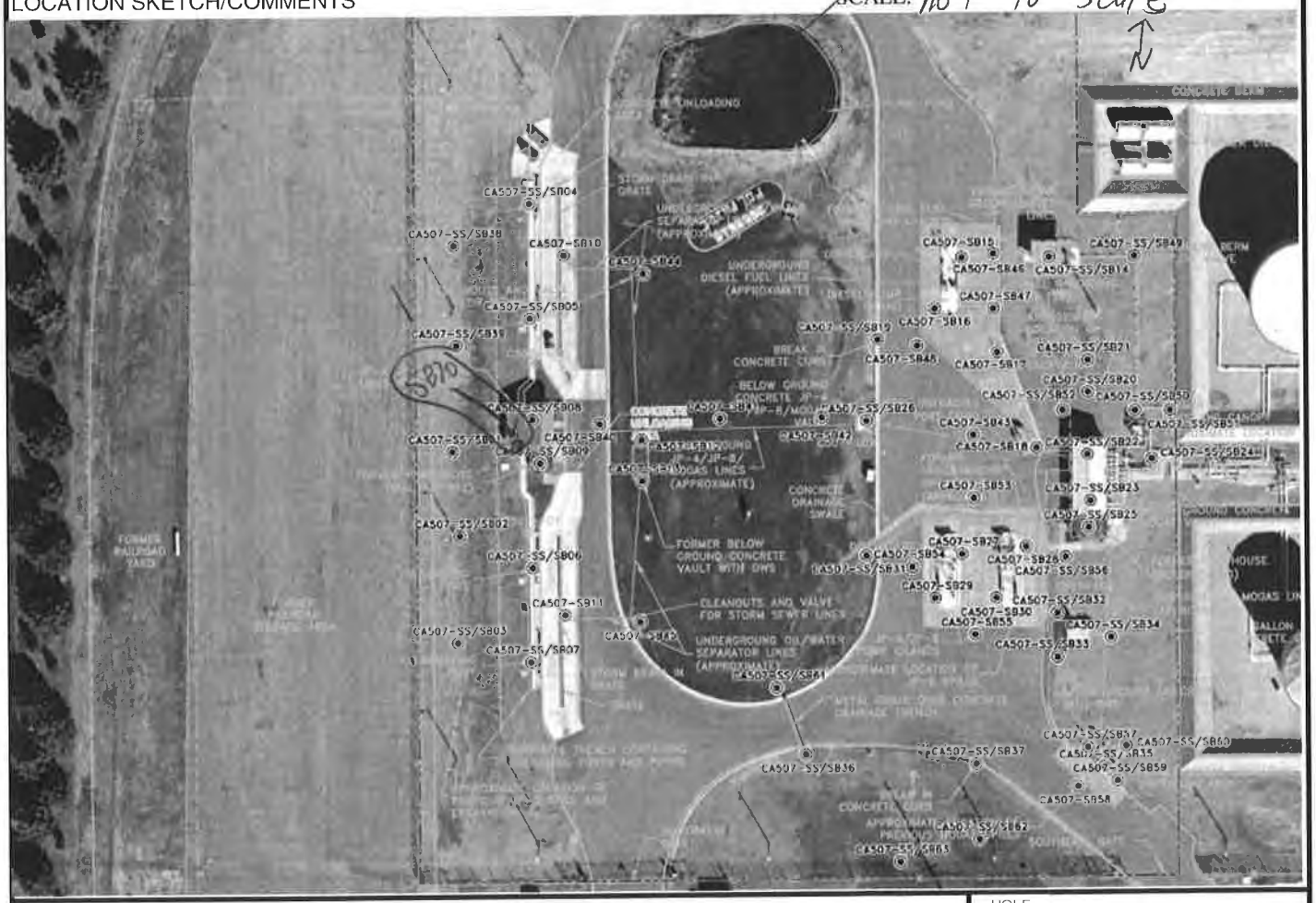
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	BTEX + naphthalene	TPH-GRO, DRO, ORO	Site related SVOC PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Condi

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB70

HTRW DRILLING LOG

HOLE NO. CAS07-SB70

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Gravelly SAND (SP) - loose, dry, brown, fine to medium grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=ND		none	PP=Pocket Pen	START TIME = 1342 1430 Time (T) 1435 Recovery (R) 3.2/5.0
	1						
	2						Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3	Sandy SILT (ML) - stiff, moist, light brown low plastic				PP=1.5	
	4				NR		
	5		HS=ND		CAS07-SB70 -010		T=1445 R=4.5/5.0
	6	Becomes very stiff				PP=3.5	
	7					PP=3.0	
	8	with calcareous nodules					
	9						
	10				NR		

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CAS07-SB70

HTRW DRILLING LOG

HOLE NO. CA507-SB70

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conradi

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same: Sandy SILT (ML) - Very stiff, moist, light brown, low plastic	HS = ND		CA507-SB70 -015	PP=3.0	T = 1450 R = 4.6/5.0
	11						
		SAND (SP) - loose, moist, light brown					
	12	Becomes Hard				PP=4.0	
	13						
	14	Becomes light tan, very stiff, with decreasing sand, medium plastic				PP=3.5	
	15	Bottom of Boring 15'		NR			

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB70

HTRW DRILLING LOG

DISTRICT: AFCEC-FA5903-08-D-8785-TO-0169	HOLE NUMBER: CA507-SB71	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB New Mexico	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 inch sample sleeve	8. HOLE LOCATION: 1239295.533N, 847812.429E	
	9. SURFACE ELEVATION: 4520.0 ft above MSL	
	10. DATE STARTED: 2-12-13	11. DATE COMPLETED: 2-12-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 13 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	Btex + naphthalene	TPH-GRO, DRO, ORO	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Conrad

LOCATION SKETCH/COMMENTS

SCALE: not to Scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB71

HTRW DRILLING LOG

HOLE NO. CA507-SB71

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravelly SAND (SP) - loose, dry, brown fine grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		none	PP=Pocket Pen	START TIME = 1506
		Sandy SILT (ML) - Hard, moist, light brown. low Plastic	BKG=ND HS=64.3			PP=4.0	Time (T) 1515 Recovery (R) 4.5/5.0
	1						
	2	Becomes very stiff				PP=3.5	Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
		SAND (SP) loose, moist, light brown					
	3						
						PP=3.5	
	4						
					NR		
	5		HS=ND		CA507-SB71-010		T=1520 R=4.5/5.0
	6					PP=3.5	
	7					PP=3.0	
	8	Becomes light tan					
	9					PP=3.0	
					NR		
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB71

HTRW DRILLING LOG

HOLE NO. CA507-SB71

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: J Conrad

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same Sandy SILT(ML) - ~~Sandy~~ Hard, moist, light brown, low plastic with calcareous nodules	HS=ND		CA507-SB71-013	PP=4.0	T=1530 R=30/5.0
	11						
						PP=4.0	
	12						
	13	Bottom of Boring 13'					Refusal at 13'
	14						
	15						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB71

HTRW DRILLING LOG

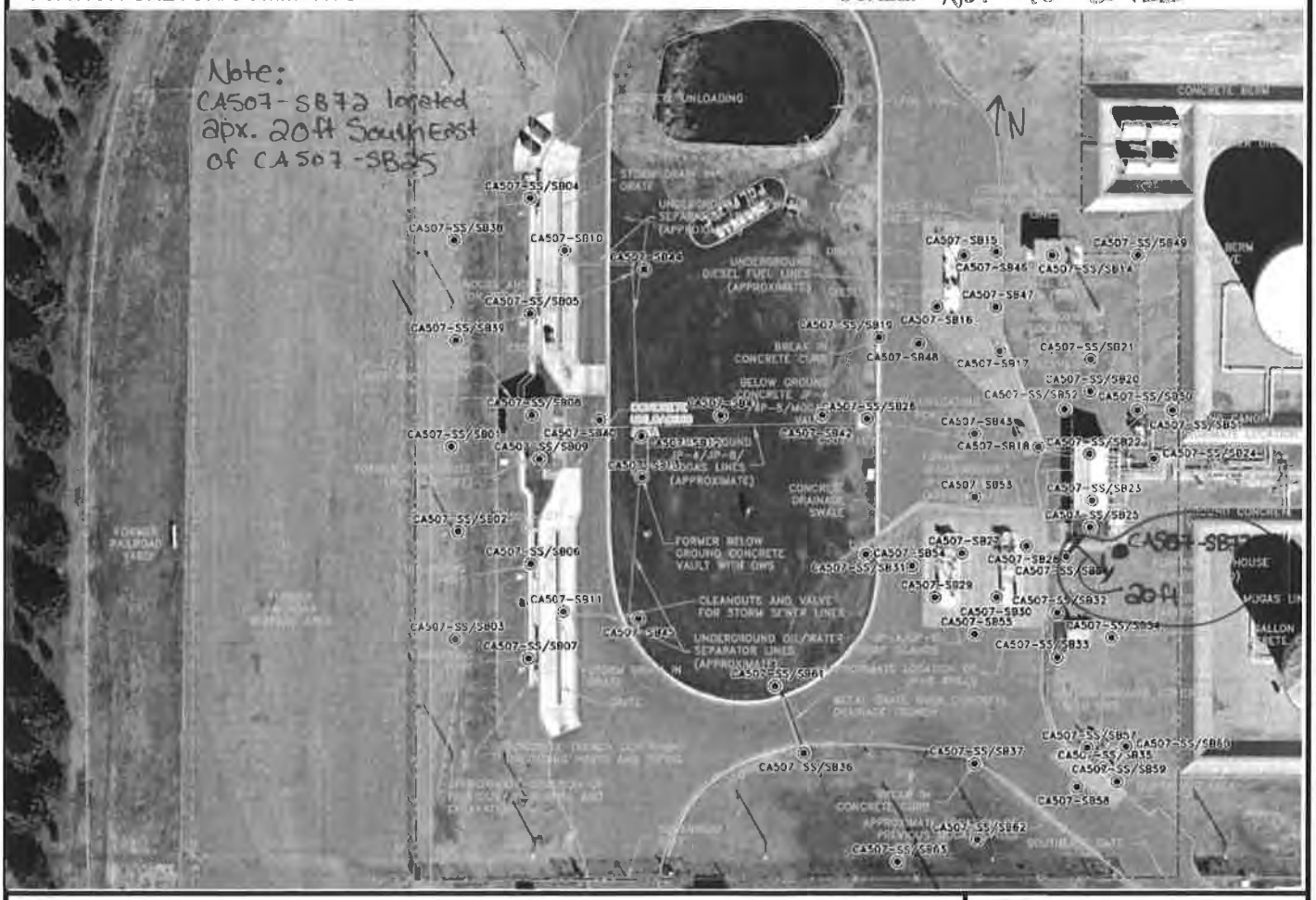
DISTRICT: AFCEC-FA8903-09-D-8793-TO-0164		HOLE NUMBER: CA507-SB72
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA507-SB72, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jessie Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" diameter sample liner		8. HOLE LOCATION: 1239212.758N, 848115.49E
		9. SURFACE ELEVATION: 4318.1 ft above MSL
		10. DATE STARTED: 2-13-13 @ 1055
		11. DATE COMPLETED: 2-13-13 @ 1120
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater Not Encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 15 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	BTEX + Naphthalene	Lead	Site Specific SVOCs	TPH-GRO/GRO/DRO	PCB	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS — SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB72

HTRW DRILLING LOG

HOLE NO. CA507-SB72

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF SHEETS 3

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND (SM) and GRAVEL (GP) - loose, dry, fine grain sand and fine gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1055 Time (T) Recovery (R)
	1	Sandy SILT (ML) - Stiff, dry, brown, slight plasticity, fine sand				PP=3.5	T=1100 R=5.0'/5.0' Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	2		FS=ND HS=ND				BTEX, TPH-GRO Collected from the bottom of the sample liner
	3					PP=2.5	
	4	Increased sand, becomes Reddish-Brown					
	5						
	6				CA507-SB72-010	PP=25	T=1108 R=5.0'/5.0'
	7						
	8						
	9	Becomes Calcareous SILT (ML) - medium stiff, dry, pale tannish-white with a high caliche content				PP=1.5	
	10						

HTRW DRILLING LOG

HOLE NO. CA507-SB72

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	SILT (ML)- Stiff, moist, pale greyish tan, slight plasticity, some very fine sand					
	11						
	12		FS=ND HS=ND		CA507-SB72-015		T=1120 R=5.0'/5.0'
	13						
	14						
	15	Bottom of Boring @ 25.0 ft bgs					END TIME = 1120
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB72

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-09-D-8783-TO-0169		HOLE NUMBER: CA507-SB73
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB New Mexico
5. NAME OF DRILLER: R Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macrocore 1 5/8 inch dia Sample sleeve		8. HOLE LOCATION: 1239116.384 N, 848119.389 E
		9. SURFACE ELEVATION: 4317.2 ft above msl
		10. DATE STARTED: 2-13-13 / 11. DATE COMPLETED: 2-13-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15 ft		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

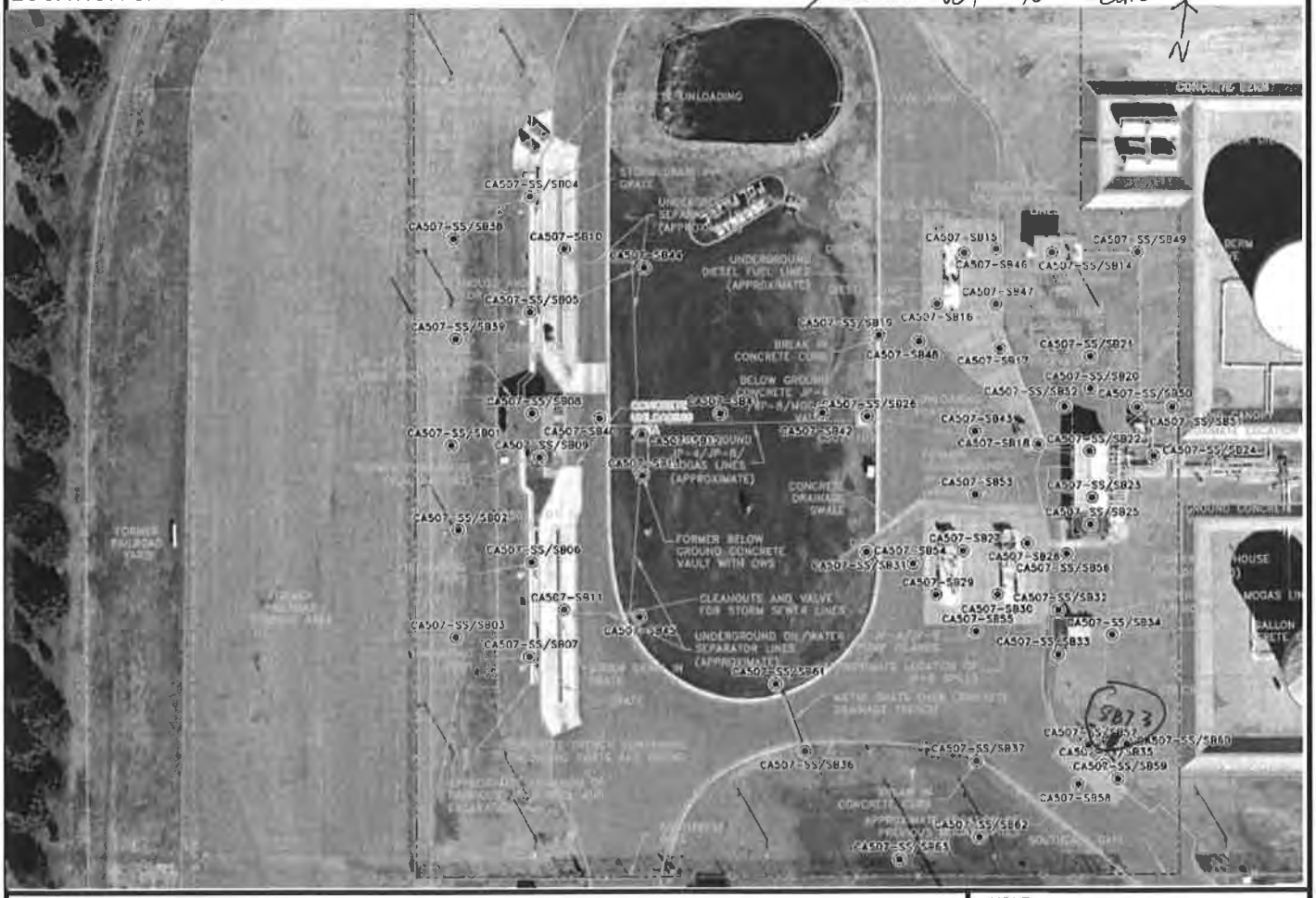
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2	—	Lead	Btex + Naphthalene	TPH-GRO, DRO, ORO	Site related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Hydrated Bentonite chips	X	—	—	James Cond.

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA507-SB73

HTRW DRILLING LOG

HOLE NO. CA507-SB73

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: J Conrad

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Sandy SILT (ML) - very stiff, moist, light brown, low plastic with calcareous nodules	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS=16.8		none	PP=Pocket Pen PP=3.0	START TIME = 0800 Time (T) 0809 Recovery (R) 4.5/5.0
	1						
	2					PP=2.5	Fill Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3					PP=2.5	
	4	Becomes light tan					
	5		NR				
		Becomes light brown	HS=8.5		CA507-SB73-010		T=0812 R=5.0/5.0
	6					PP=3.0	
	7						
	8					PP=3.5	
	9						
	10	Becomes light tan					Native soil

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB73

HTRW DRILLING LOG

HOLE NO. CA507-SB73

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR J Conrad.

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Same: Sandy SILT (ML) - very stiff, moist, light tan, low plastic	HS= 9.4		CA507-SB73 -015	PP=2.0	T=0819 R=5013.0
	11						
	12					PP=2.0	
	13						
	14						
	15	Bottom of Boring 15 ft					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB73

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-03-D-8783-TO-0169		HOLE NUMBER: CAS07-SB74
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve		8. HOLE LOCATION: 1239291.967N, 848049.058
		9. SURFACE ELEVATION: 4317.4 ft above msl
		10. DATE STARTED: 2-14-13 / 11. DATE COMPLETED: 2-14-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
2 + dup	—	lead	TPH-GRO, DRO, DRO	BTEX + Naphthalene	site-related SVOCs PCBs	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Mark Clin

LOCATION SKETCH/COMMENTS SCALE: Not to scale

PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CAS07-SB74

HTRW DRILLING LOG

HOLE NO. CA507-SB74

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M Cline

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Asphalt	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		(none)	PP=Pocket Pen	START TIME = 0910
	1	SAND (SP) - loose, moist, light brown, fine grained	BKG = ND HS = 2.7				Time (T) 0920 Recovery (R) 4.25.0
	2	Sandy SILT (ML) - Very stiff, moist, light brown low plastic				PP=3.5	Fill Soil samples collected analyzed for BTEX + napthalene, Site-Related SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, PCBs, and Lead
	3						
	4	Becomes light tan				PP=3.5	
					NR		
	5	Becomes reddish brown	HS = 48.8 FS = ND		CA507-SB74-010 + dup	PP=3.0	T = 0930 R = 5.0/5.0
	6						
	7						
	8	0-2' of calcareous gravel				PP=2.5	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA507-SB74

HTRW DRILLING LOG

HOLE NO. CA507-SB74

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: Sandy SILT (ML) - Very stiff, moist, reddish brown, low plastic	HS = 8.8		CA507-SB74-015		T = 0945 R = 5.0/5.0
	11	Becomes light brown, stiff				PP = 1.5	
	12						
						PP = 2.0	
	13						
	14						
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA507-SB74

HTRW DRILLING LOG

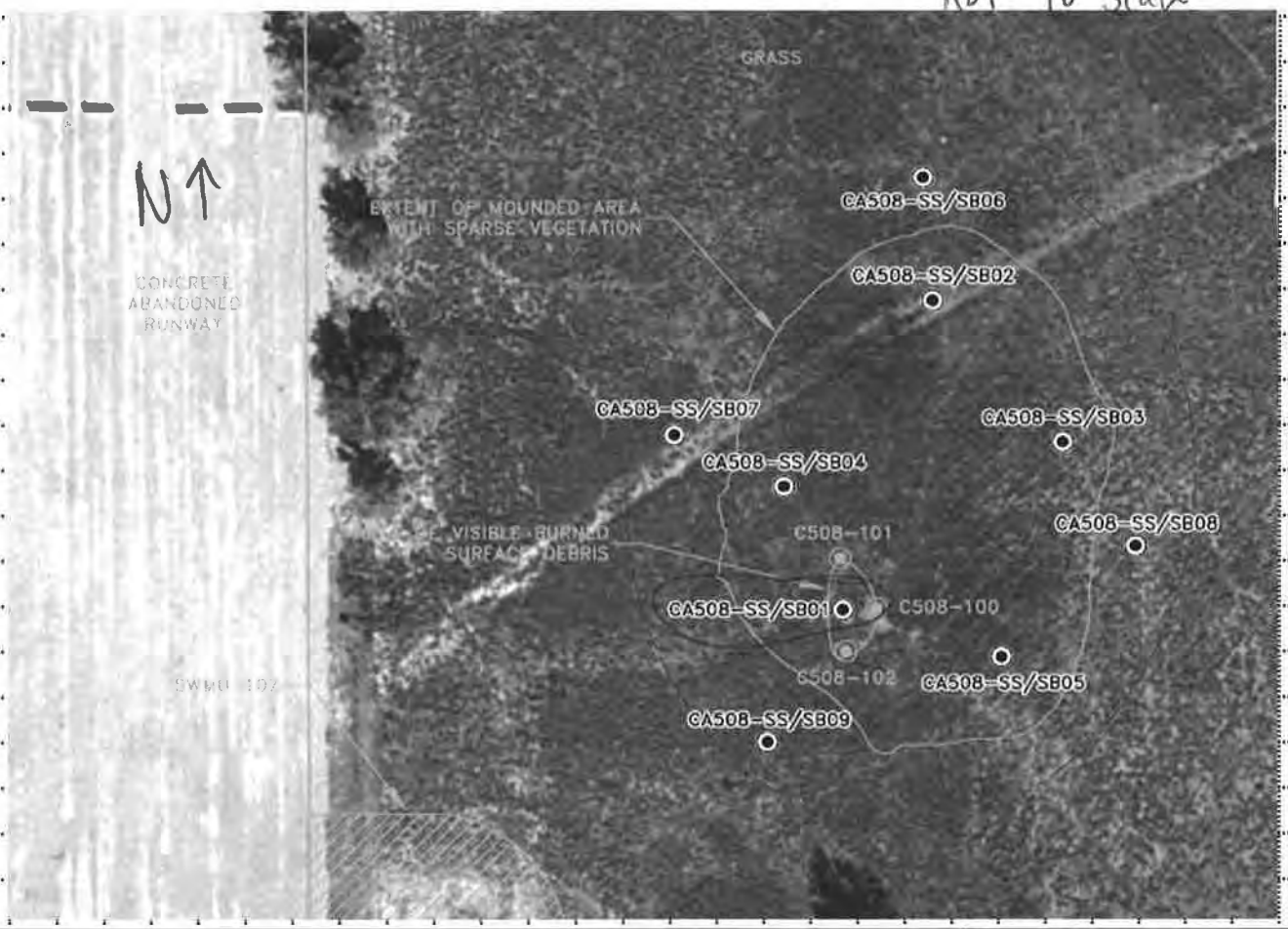
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA508-SB01
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve		8. HOLE LOCATION: 1228507.228N 851294.596E
		9. SURFACE ELEVATION: 4265.7 ft above msl
		10. DATE STARTED: 1-23-13 / 11. DATE COMPLETED: 1-23-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 20'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS: 5	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
	X	X (RCRA)	TPH-DRO, GRO, ORO	SVOCs / PCBs	Pesticides / Herbicides	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS — SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA508-SB01

HTRW DRILLING LOG

HOLE NO. CA508-SB01

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
		Charcoal chunks	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA508-SS01-001* +dup (time 0800)	PP=Pocket Pen	START TIME = 1130 Fill
		SILT (ML) - Medium stiff, dry, brown, low plastic, with fine sand	BKG=ND HS=0.8			PP=0.5	Time (T) = 1285 Recovery (R) = 4.0/5.0
	1				CA508-SB01-004 +dup (time 0810)		Native soil
			HS=1.7				Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, RCRA Metals, Dioxins/Furans, and Explosives
	2						* collected with hand trowel
	3						
	4	Becomes reddish white, with calcareous nodules		NR		PP=0.5	
	5				CA508-SB01-009		T = 1315 R = 4.0/5.0
		Becomes brownish red				PP=1.0	
	6		HS=3.8				
		Becomes very light tan, with abundant calcareous nodules - caliche zone					
	7					PP=2.0	
		Becomes brownish red					
	8						
		Becomes reddish white					
	9			NR			
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA508-SB01

HTRW DRILLING LOG

HOLE NO. CA508-SB01

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SILT (ML) - stiff, dry, reddish-white, low plastic			CA508-SB01-015	PP=4.0	T=1335 R=5.0/5.0
		Becomes hard	HS=3.0				
	11	Becomes dark brown, with metallic chunks				PP=3.5	
	12						
		Becomes reddish-brown, with sand					
	13	with fine sand				PP=1.5	
	14	Becomes reddish white					
		Becomes reddish brown					
	15	Becomes reddish white					
		Becomes gray, with trace gravel			CA508-SB01-020		T=1400 R=4.8/5.0
		Becomes tan, with fine calcareous nodules				PP=1.0	
	16		HS=3.5				
	17	with fine sand and charred debris					
		Becomes reddish brown, with calcareous nodules					
	18					PP=1.0	
	19						
	20	Bottom of boring - 20' bgs		NR			

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA508-SB01

HTRW DRILLING LOG

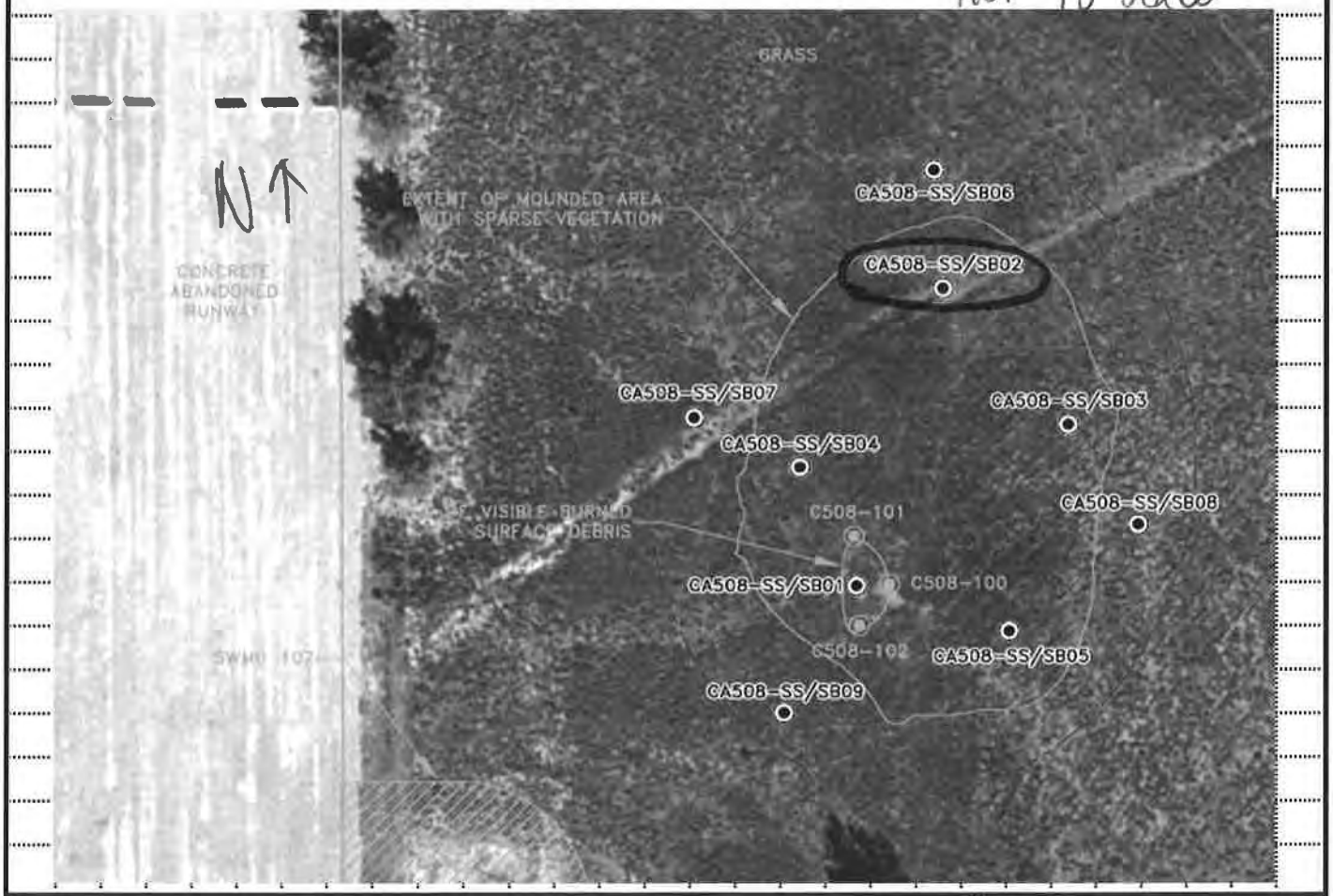
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA508-SB02
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1228620.071N 851326.052E	
	9. SURFACE ELEVATION: 4265.3 ft above msl	
	10. DATE STARTED: 1-23-13	11. DATE COMPLETED: 1-23-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 15'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	X	X (RCRA)	TPH-DRO, GRO	DRO	SVOCs/PCBs	Pesticides/Dioxins/Furans	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	~~bentonite - filled~~	Mike Clin

LOCATION SKETCH/COMMENTS SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA508-SB02

HTRW DRILLING LOG

HOLE NO. CA508-SB02

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline, J. Conradi

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
			HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect			PP=Pocket Pen	START TIME = 0811
		SILT(ML)- Stiff, dry, reddish brown, low plastic	BKG=ND HS=ND		CA508-SB02-001*	PP=1.5	Time (T) = 0835 Recovery (R) = 3.0/5.0
	1	Becomes medium stiff, reddish white, with calcareous nodules, weathered caliche					Native Soil
	2		HS=1.9		CA508-SB02-003	PP=1.0	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, RCRA Metals, Dioxins/Furans, and Explosives *Surface soil sample collected with hand trowel
	3						
	4			NR			
	5				CA508-SB02-010	PP=1.5	T=0855 R=5.0/5.0
	6	Sandy SILT(ML)- Stiff, dry, reddish brown, low plastic					
	7		HS=1.5				
	8	0.5' of large calcareous nodules (upto 1" in diameter)				PP=2.0	
	9	SILT(ML)- Stiff, dry, brown, low plastic, with calcareous nodules					
	10						

HTRW DRILLING LOG

HOLE NO. CA508-SB02

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Cline, J. Conradi

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	SAME: SILT (ML) stiff, dry, brown, low plastic, with calcareous nodules			CA508-SB02-015		T= 0925 R= 5.0/5.0
		Becomes very stiff, reddish white				PP=2.5	
	11	Becomes brown	HS=10.3 (with moisture preservation bag, without filter lowered)				
	12	0.5' of large calcareous nodules (up to 0.5" in diameter)					
	13	Becomes medium stiff				PP=1.0	
	14	Becomes reddish brown					
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA508-SB02

HTRW DRILLING LOG

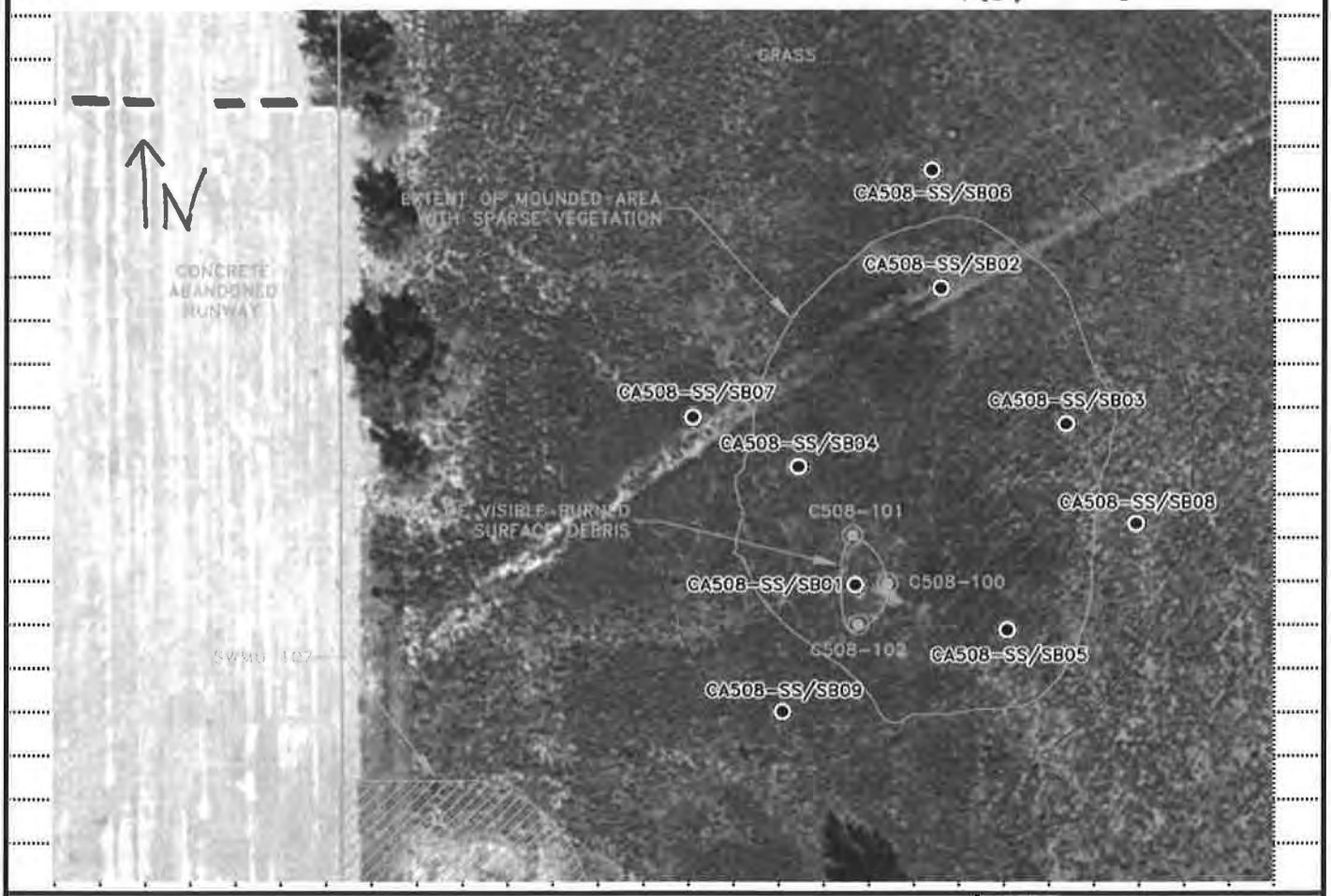
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA508-SB03
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA508-SB03, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jesse Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe DT Geo Probe
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Long Macro Core Sampler, 1 5/8" diameter sample liner		8. HOLE LOCATION: 1228568.421 N, 851372.417 E
		9. SURFACE ELEVATION: 4266.0 ft above msl
		10. DATE STARTED: 1-23-13 @ 1115 / 11. DATE COMPLETED: 1-23-13 @ 1228
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 15 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	VOCs/SVOCs	RCRA	Pesticides/PCBs	TPH-GRO/ORO/DRO	Explosives/Dioxins	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer L Allen

LOCATION SKETCH/COMMENTS — SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA508-SB03

HTRW DRILLING LOG

HOLE NO. CA508-SB03

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer [illegible]

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND (SM) - medium dense, dry brown, fine grain to very fine grain	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND FS= ND	*	CA508-SB03-001, and Duplicate CA508-SB03-001 Collected @1102	PP=Pocket Pen	START TIME = 1115 Time (T) Recovery (R) T=1130 R=4.5'/5.0'
	1						
	2	Increased silt, Becomes Dense	FS=ND HS=1.7 ppm		CA508-SB03-005 VOCs, TPH-GRO collected from the bottom of the sample run (4.0-4.5 ft bgs)	PP=1.5	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, RCRA Metals, Dioxins/Furans, and Explosives *Surface Soil Samples collected with a Hand Trowell
		SHARP CONTACT					
	3	Calcareous SILT (ML) - Medium Stiff, dry, pale orange to off white, no plastikity, trace fine caliche nodules					
	4					NO Recovery	
	5	Becomes Sandy SILT (ML) - medium stiff, pale orangish-brown, No plasticity, very fine to fine sand, Some white caliche mottling, trace fine caliche nodules					
	6		FS=ND HS=3.9 ppm		CA508-SB03-010 VOCs, TPH-GRO collected from the bottom of the sample run @ 9.5-10 ft bgs	PP=2.0	T=1156 R=5.0'/5.0'
	7					PP=2.0	
	8						
	9	Becomes orangish-brown, increased sand				PP=2.0	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA508-SB03

HTRW DRILLING LOG

HOLE NO. CA508 - SB03

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same as Above Sandy SILT (ML) - Medium Stiff, dry, orangish-brown, No plasticity, very fine to fine sand, some white caliche mottling and fine caliche nodules					
	11					PP=1.5	T= 1228 R= 5.0'/5.0'
					CA508-SB03-015		
	12	Silty SAND (SM) - Medium dense, dry, reddish-brown, very fine to fine grain	FS=ND HS=2.5 ppm		VOCs, TPH GRO collected from the bottom of the sample run @ 9.5-10.0 ft bgs	PP=1.5	
	13					PP=1.5	
	14	Calcareous SILT (ML) - Medium Stiff, dry, pale orange - white, no plasticity, caliche nodules, trace fine sand					
	15	Bottom of Boring @ 15.0 ft bgs					END TIME = 1228
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA508 - SB03

HTRW DRILLING LOG

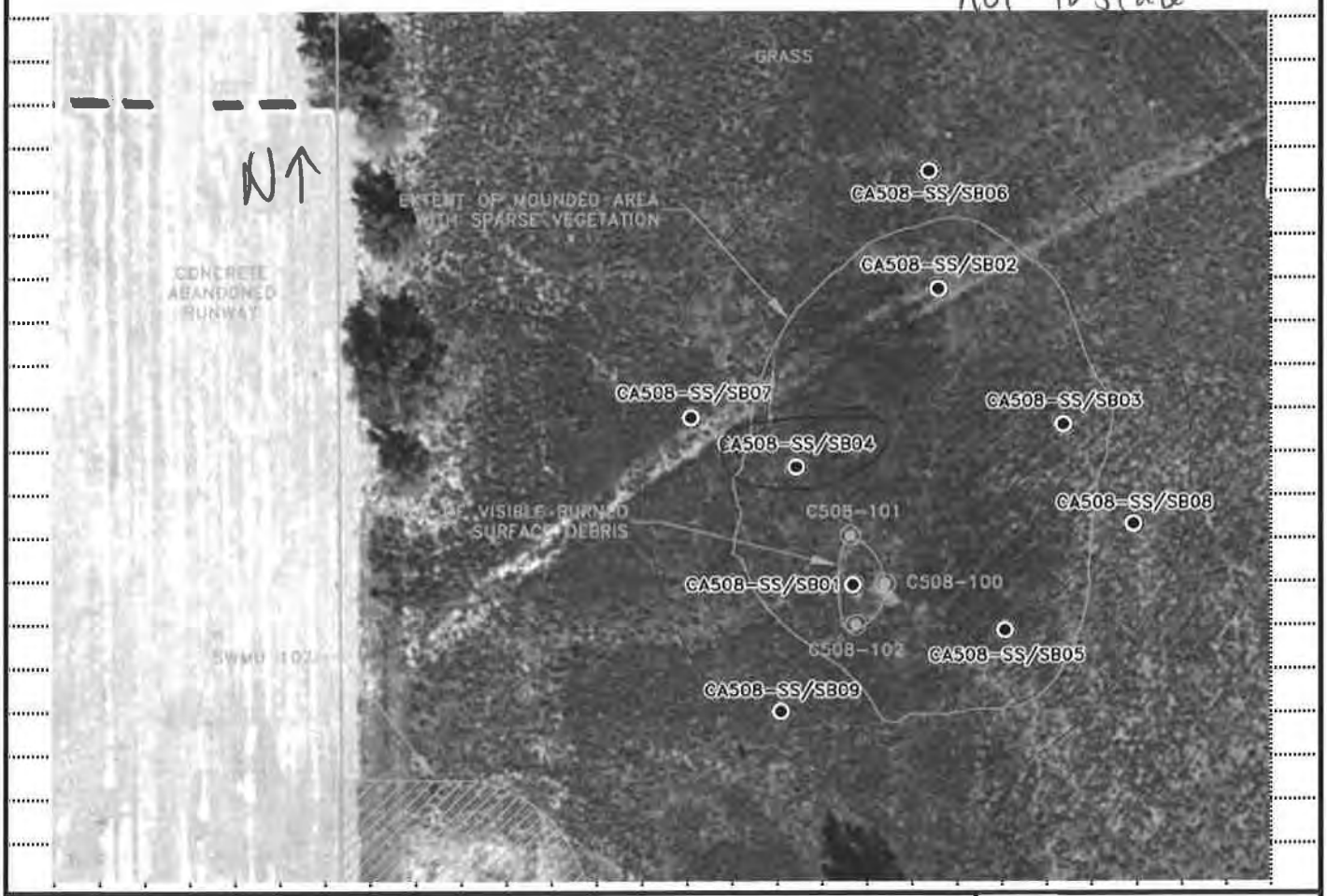
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA508-SB04
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve		8. HOLE LOCATION: 1228552.155N 851273.669E
		9. SURFACE ELEVATION: 4265.7 ft above msl
		10. DATE STARTED: 1-23-13 / 11. DATE COMPLETED: 1-23-13
12. OVERBURDEN THICKNESS: —		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: —		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 15'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	X	X (RCRA)	TPH-DRO, GRO, ORO	SVOCs/PCBs	Pesticides/herbicides/Furans	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Mike Clem

LOCATION SKETCH/COMMENTS — SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA508-SB04

HTRW DRILLING LOG

HOLE NO. CA508-SB04

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sandy SILT (ML) - Medium stiff, dry, reddish brown, low plasticity	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND HS = ND		CA508-SB04-001*	PP=Pocket Pen	START TIME = 0955 Time (T) = 1015 Recovery (R) = 4.0/5.0
	1	with red ribbons		~~PP=1.0~~ MC	CA508-SB04-004	PP=1.0	Native soil * collected by hand trowel
	2	SILT (ML) - Stiff, dry, reddish white, low plasticity	HS=2.4				Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, RCRA Metals, Dioxins/Furans, and Explosives
	3			~~PP=1.5~~ MC		PP=1.5	
	4			NR			
	5	Becomes brown, with fine sand and calcareous nodules			CA508-SB04-009		T = 1040 R = 4.4/5.0
	6					PP=1.5	
	7		HS=3.4				
	8					PP=2.0	
	9						
	10			NR			

HTRW DRILLING LOG

HOLE NO. CA508-SB04

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		SAME: SILT (ML) - Stiff, dry, brown, low plastic, with calcareous nodules	HS=4.1		CA508-SB04-014	PP=1.5	T=1100 R=4.4/5.0
	11						
	12						
	13					PP=1.5	
	14						
				NR			
	15	Bottom of boring - 15' bgs					
	16						
	17						
	18						
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

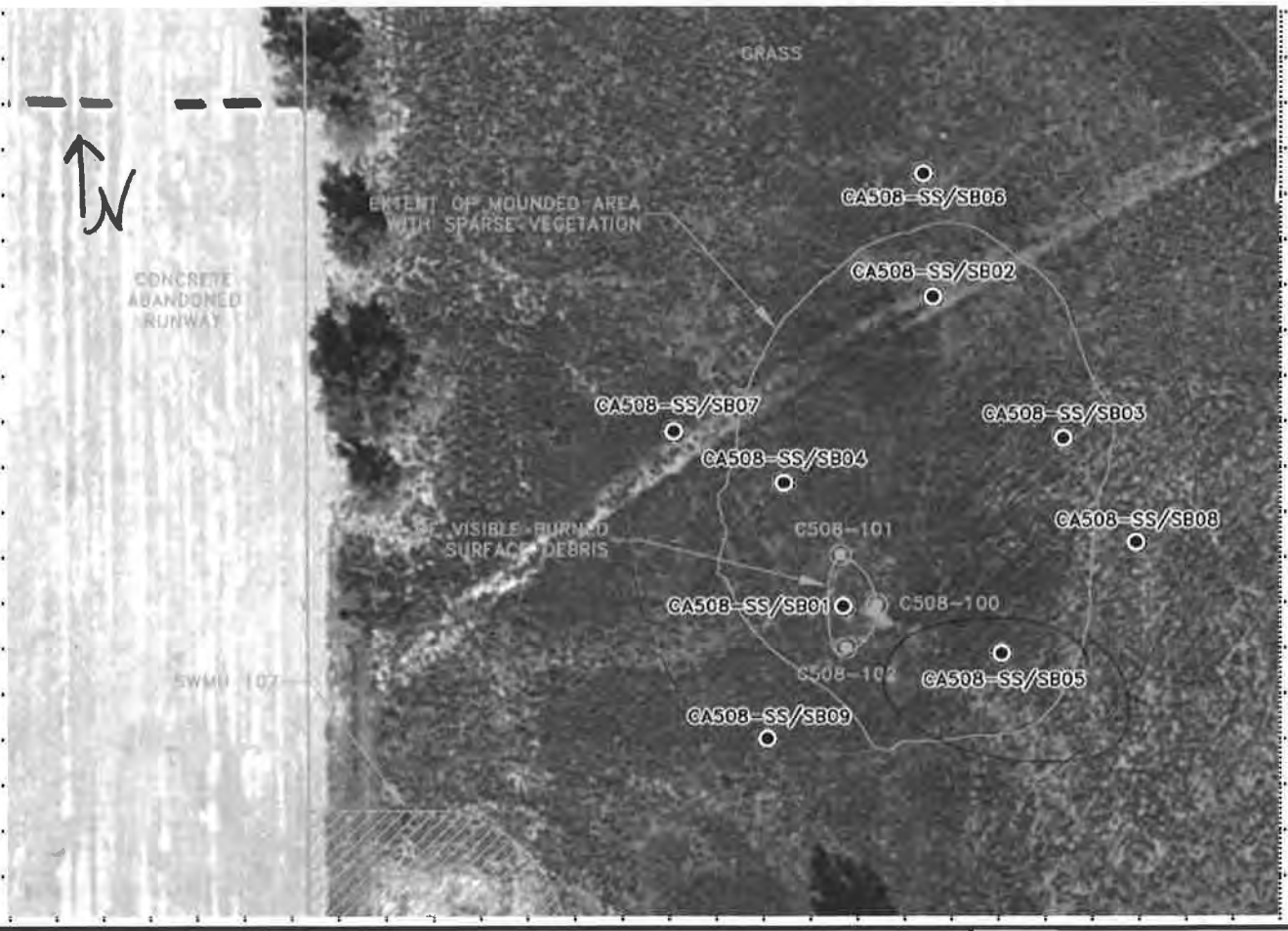
HOLE CA508-SB04

HTRW DRILLING LOG

DISTRICT	AFLEC-FA8903-08-D-8783-TO-0169
HOLE NUMBER	CA508-SB05
1. COMPANY NAME	URS Corp.
2. DRILLING SUBCONTRACTOR	Plains Environmental Services
SHEET / OF SHEETS	1 OF 2
3. PROJECT	Site Investigation at 8 Sites, Cannon AFB
4. LOCATION	CA508, SB05, Cannon AFB, Clovis, NM
5. NAME OF DRILLER	Jesse Kalvig
6. MANUFACTURE'S DESIGNATION OF DRILL	6620DT GeoProbe
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	5 foot long Macro Core Sampler, 1 5/8" diameter Sampler liner
8. HOLE LOCATION	1228490.066 N, 851350.786 E
9. SURFACE ELEVATION	4265.9 ft above msl
10. DATE STARTED	1-23-13 @ 0938
11. DATE COMPLETED	1-23-13 @ 1030
12. OVERBURDEN THICKNESS	N/A
15. DEPTH GROUNDWATER ENCOUNTERED	GW not encountered
13. DEPTH DRILLED INTO ROCK	N/A
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	N/A
14. TOTAL DEPTH OF HOLE	15 feet (ft) below ground surface (bgs)
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	N/A
18. GEOTECHNICAL SAMPLES	6
DISTURBED	—
UNDISTURBED	—
19. TOTAL NUMBER OF CORE BOXES	N/A
20. SAMPLES FOR CHEMICAL ANALYSIS	5
VOC	VOCs/SVOCs
METALS	RCRA
OTHER (SPECIFY)	Pesticides/PCBs
OTHER (SPECIFY)	TPH-GRO/DRO/ORO
OTHER (SPECIFY)	Explosives/Dioxins
21. TOTAL CORE RECOVERY	N/A %
22. DISPOSITION OF HOLE	Abandoned
BACKFILLED	Bentonite Pellets
MONITORING WELL	—
OTHER (SPECIFY)	—
23. SIGNATURE OF INSPECTOR	Jennifer L Allen

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA508-SB05

HTRW DRILLING LOG

HOLE NO. CA508-SB05

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jennifer Allen

SHEET 2 OF 3

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. c.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Sandy SILT (ML) - medium stiff, dry, reddish-brown, low plasticity, very fine grain sand	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND FS= ND	*	CA508-SS05-001, and Dup: CA508-SS505-001	PP=Pocket Pen PP=2.0	START TIME = 0938 Time (T) Recovery (R) T= 0945 R=5.0'/5.0'
	1						
	2	Increased sand, very fine to fine				PP=1.0	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, RCRA Metals, Dioxins/Furans, and Explosives
	3		FS=ND HS=5.0ppm		CA508-SB05-005 TPH-GRO/VOCs collected @ the bottom of the sample run (4.5-5.0 ft bgs)	PP=1.0	* Surface Soil Samples collected with a Hand Trowell
	4	(sharp color change @ 4.2 ft bgs) Becomes Calcareous SILT (ML) - stiff, dry, very pale orange to white, no plasticity				PP=2.5	
	5	Trace fine caliche nodules					
	6					PP=1.0	T=1010 R=4.6'/5.0'
	7		FS=ND HS=5.9ppm		CA508-SB05-010 TPH-GRO/VOCs collected @ the bottom of the sample run (9.0-9.6 ft bgs)	PP=2.0	
	8	Stiff from 8.0-9.0 ft bgs				PP=2.5	
	9	Becomes pale orangish-tan with trace white caliche mottling, trace sand			NO Recovery	PP=1.0	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA508-SB05

HTRW DRILLING LOG

HOLE NO. CA508-SB05

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Haller

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	SAME AS Above Calcareous SILT (ML)- Stiff, dry, pale orangish brown with trace white caliche mottling, no plasticity trace sand and fine caliche nodules				PP=2.5	
	11				CA508-SB05-05	PP=2.5	T=1030 R=5.0'/5.0'
	12	Increased sand	FS=ND HS=20.7ppm		TPH-GRO/VOCs collected from the bottom of the sample run 9.5-10.0 ft bgs		
	13					PP=2.5	
	14	Silty SAND (SM)- medium dense, dry, pale orangish-brown, very fine to fine grain				PP=1.5	
	15	Bottom of Boring @ 15.0 ft bgs					END TIME = 1030
	16						
	17						
	18						
	19						
	20						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA508-SB05

HTRW DRILLING LOG

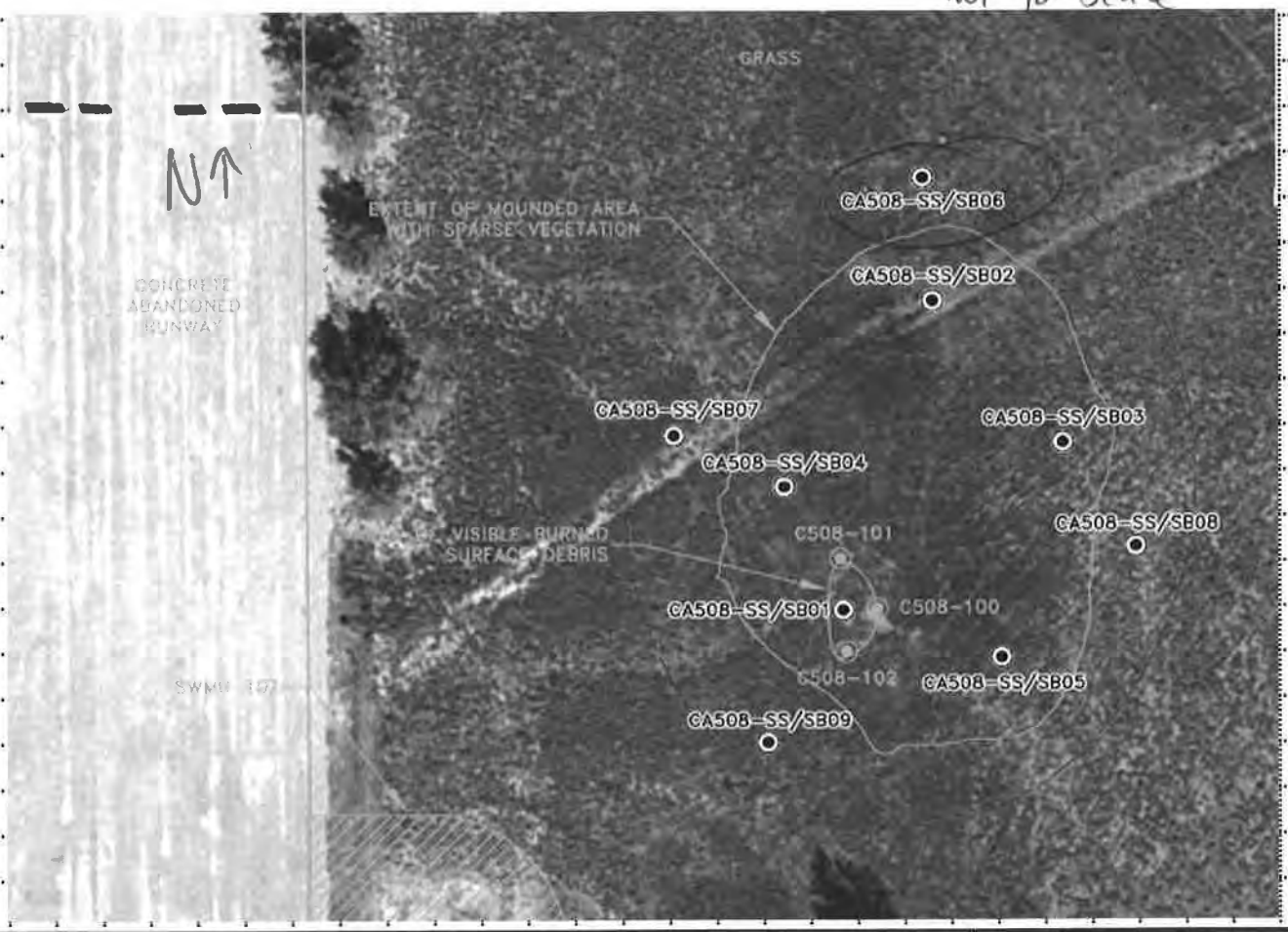
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA 508-SB06
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve		8. HOLE LOCATION: 1225664.916 N 851322.587 E
		9. SURFACE ELEVATION: 4265.4 ft above msl
		10. DATE STARTED: 1/22/13 / 11. DATE COMPLETED: 1/22/13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 10'		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	X	X (RCRA)	TPH-DRO, ORO, GRO	SVOCs / PCBs	Pesticides / Herbicides	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Mitch Clem

LOCATION SKETCH/COMMENTS — SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA 508-SB06

HTRW DRILLING LOG

HOLE NO. CA 508-SB06

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 2

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
			HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect	~~Surface soil collected w/ hand trowel~~	CA508-SB06-004	PP=Pocket Pen	START TIME = 1455
		SILT (ML) - Stiff, dry, light brown, low plastic, with trace fine sand	HS = ND BKG = 2.7 ND		CA508-SB06-004	2.0	Time (T) 1458 Recovery (R) 4.0/5.0
	1						native soil * collected with hand trowel
	2					2.0	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, RCRA Metals, Dioxins/Furans, and Explosives
	3	0.2' lens of calcareous nodules	HS = 3.3				
	4		NR				
	5	Becomes medium stiff, tan, with calcareous nodules			CA508-SB06-010	1.0	T = 1530 R = 5.0/5.0
	6		HS = 1.8				
		Becomes stiff				2.0	
	7						
	8						
	9					2.0	
	10	Bottom of Boring - 10' bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA508 - SB06

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA508-SB07
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1228570.901N 851234.753E	
	9. SURFACE ELEVATION: 4266.2 ft above msl	
	10. DATE STARTED: 1/22/13	11. DATE COMPLETED: 1/22/13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 10'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

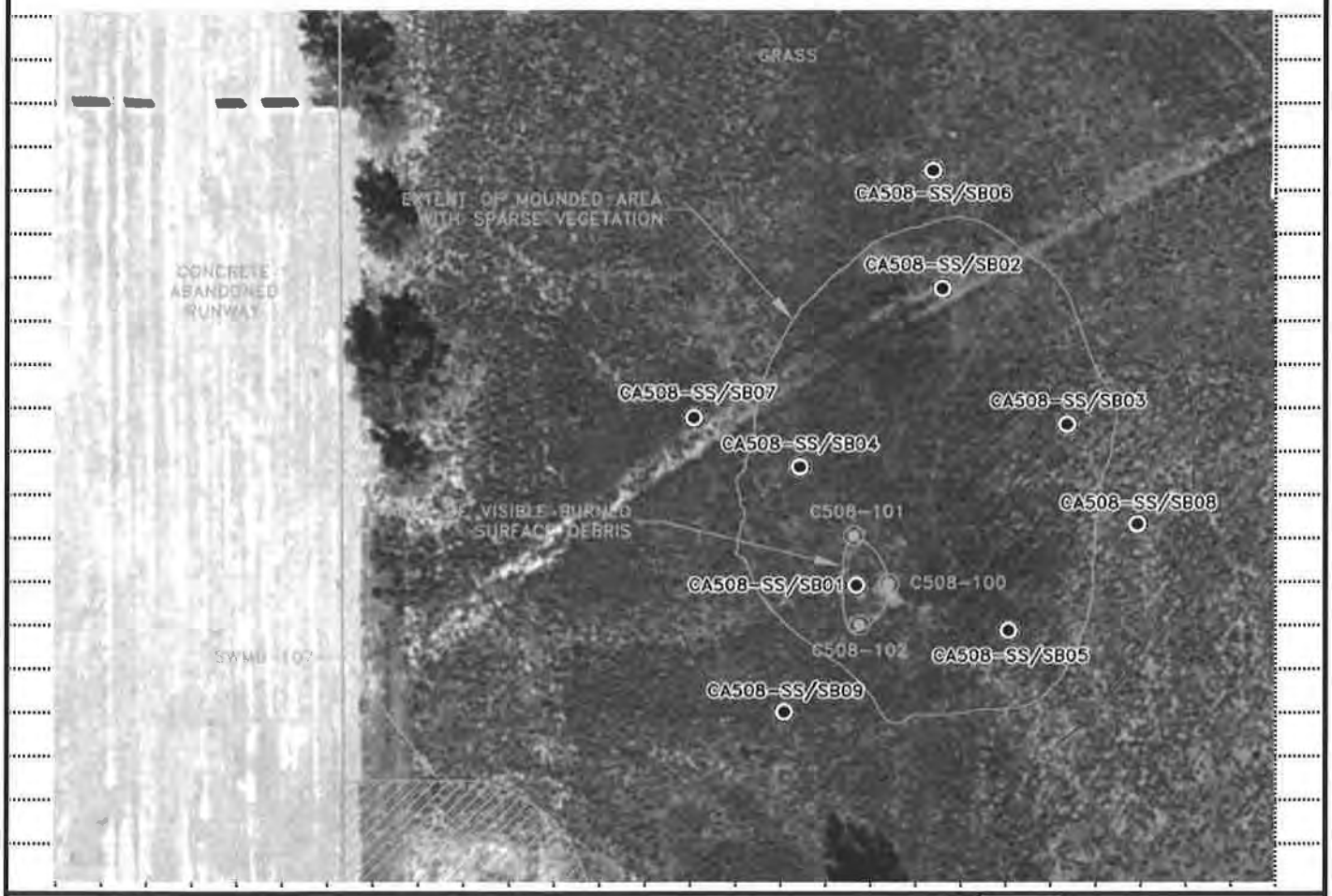
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
NA			NA

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
B	X	X (RCRA)	TPH-DRO, ORO, GRO	SVOCs / PCBs	Pesticides / Dioxins / Furans	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA508-SB07

HTRW DRILLING LOG

HOLE NO. CA 508-SB07

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: S. Jacobson

SHEET 2 OF SHEETS 2

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
		SILT (ML) - ~~lt.~~ Stiff, dry, brown, low plastic, clayey	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect	CA508-SB01-001 / Surface Soil, collected using hand trowel	CA508-SB07-005	PP=Pocket Pen	START TIME = 1325
		becomes very stiff, reddish brown, with fine sand	HS: 2.7 (0-0.5')				Time (T) 1330 Recovery (R) = 5.0/5.0
	1		BKG: 0.0			PP: 3.75	native soil
			HS: 1.2 (1-5')				Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, RCRA Metals, Dioxins/Furans, and Explosives
	2						
	3	becomes light reddish white, medium stiff, calcareous, weathered caliche				PP: 1.0	pounding becomes medium-hard
	4						
	5		HS: 0.0 (5-9')		CA508-SB07-009	PP: 0.5	T: 1400 Rec: 4.0/5.0
	6						
	7	SILTY SAND (SM) - Dense, dry, reddish brown with weathered caliche veins and nodules (~1.5" thick), fine sand				PP: 3.75	
	8						
	9			No Recovery (NR)			
	10	BOTTOM of BORING - 10 feet bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA 508-SB07

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8703, TO-0169		HOLE NUMBER: CA508-SB08
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA508-SB08, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jesse Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: 6620 DT GeoProbe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler, 1 5/8" diameter sampler liner	8. HOLE LOCATION: 1228530.525N 857398.286E	
	9. SURFACE ELEVATION: 4266.5 ft above msl	
	10. DATE STARTED: 1-23-13 @ 0810	11. DATE COMPLETED: 1-23-13 @ 0850
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater Not encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 10 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

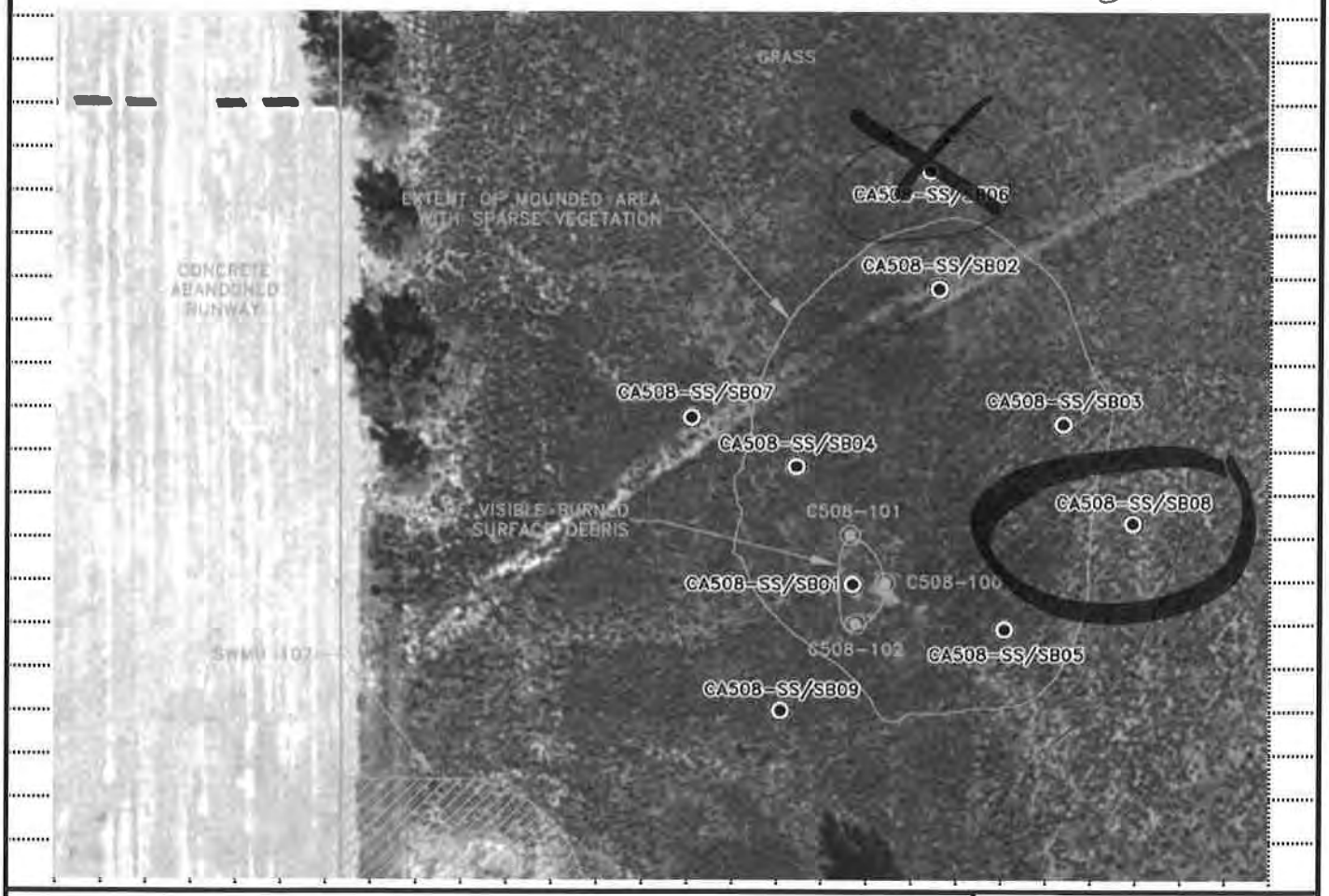
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3 + MS/MSD	VOCs/SVOCs	RCRA	TPH-DRO/ORO/GRO	Pesticides/PCBs	Explosives/Dioxins	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
ABANDONED	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA508-SB08

HTRW DRILLING LOG

HOLE NO. CA508-SB08

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Sandy SILT (ML) - medium stiff, dry, reddish brown, low to no plasticity, very fine sand	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND FS=ND		CA508-SS08-001 (collected with hand trowell)	PP=Pocket Pen PP=1.5	START TIME = 0810 Time (T) = 0825 Recovery (R) = 4.8'/5.0'
	1						
	2						Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, RCRA Metals, Dioxins/Furans, and Explosives
	3		HS=7.9ppm FS=ND		CA508-SB06005 VOCs/GRO collected @ the bottom of the sample liner	PP=2.0	
		Sharp color change					
	4	Calcareous SILT (ML) - medium stiff, dry, off white to very pale pink, no plasticity, trace caliche nodules - fine				PP=1.5	
	5					NO Recovery	
	6					PP=1.5	T=0850 R=4.5'/5.0'
	7		FS= ND HS=2.3ppm		CA508-SB08-010 VOCs/GRO collected @ the bottom of the sample liner, extra volume for MS/MSD	PP=2.0	
	8	Becomes Sandy SILT (ML) - medium stiff, dry, pale orange - white, no plasticity, very fine sand, some caliche mottling, calcereous					
	9						
	10	Bottom of Boring @ 10 ft bgs				NO Recovery	END TIME = 0850

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA508 - SB08

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-009	HOLE NUMBER: CA508-SB09	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA508-SB09, Cannon AFB, ~~Clovis~~, NM	
5. NAME OF DRILLER: Jesse Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot Macro Core Sampler, 1 5/8" diameter sample & liner	8. HOLE LOCATION: 1228459.083 N 857267.988 E	
	9. SURFACE ELEVATION: 4266.3 ft above msl	
	10. DATE STARTED: 1-22-13 @ 1440	11. DATE COMPLETED: 1-22-13 @ 1500
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: GW not encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 10 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

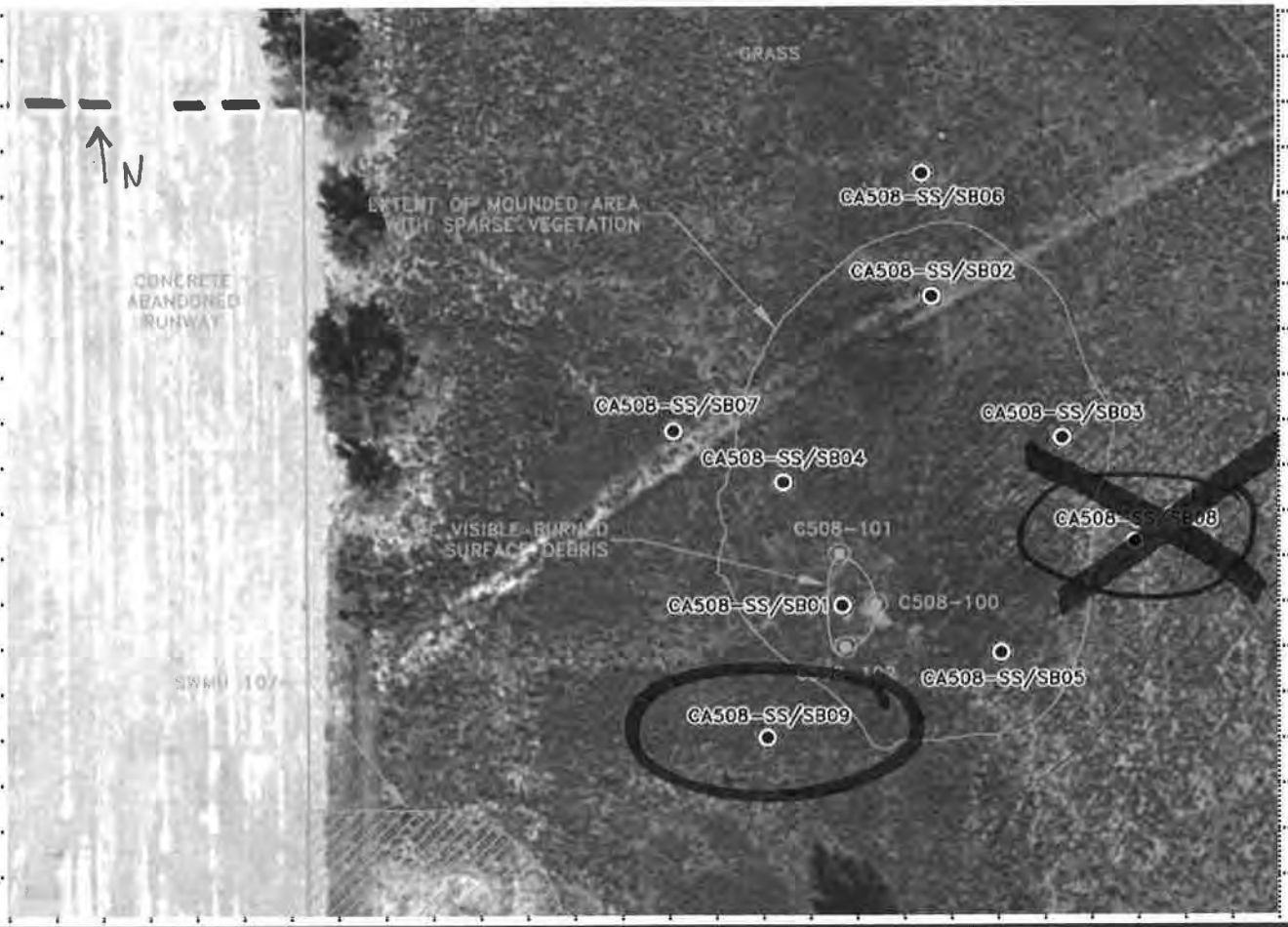
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
3	2 H2O/1 MeOH	RCRA	TPH-DRO, GRO, ORO	SVOCs/PCBs	Pesticides	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	Explosives, Dioxins/Furans	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA508-SB09

HTRW DRILLING LOG

HOLE NO. CA508-SB09

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: Jeff D Allen

SHEET 2 OF SHEETS 2

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	Sandy SILT (ML) - Stiff, dry, reddish-brown, very low plasticity, very fine sand	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND		*CA508-SS09-001	PP=Pocket Pen PP=2.5	START TIME = 1440 Time (T) Recovery (R) T=1448 R= 4.6'/5.0'
	1						Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, RCRA Metals, Dioxins/Furans, and Explosives
	2	Medium Stiff			CA508-SB09-005	PP=1.5	
	3	Becomes Calcareous SILT (ML) - Medium Stiff, dry, pale orangish-white, low plasticity	FS=ND HS=3.4ppm		VOCs, TPH-GRO taken from bottom of sample Run @ 4.1'-4.6' bgs	PP=2.0	* Surface Soil Samples collected using a hand Trowell
	4					NO Recovery	
	5	Some white caliche mottling				PP=2.0	
	6				CA508-SB09-010		T= 1500 R= 5.0'/5.0'
	7	Becomes pale orangish-brown, trace very fine sand and fine caliche nodules	FS=ND HS=6.5ppm		VOCs, TPH-GRO taken from the bottom of the sample run @ 9.5'-10.0' bgs	PP=1.5	
	8	Silty SAND (SM) - loose to medium dense, dry, pale orangish-brown, very fine grain, calcareous, some fine caliche nodules					
	9						
	10	Bottom of Boring @ 10 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA508-SB09

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0164		HOLE NUMBER: CA129-SB01
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter sample sleeve		8. HOLE LOCATION: 1238544.526N 849438.747E
		9. SURFACE ELEVATION: 4311.5 ft above msl
		10. DATE STARTED: 1-25-13 / 11. DATE COMPLETED: 1-25-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: ~~NA~~ MC 20' bgs		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

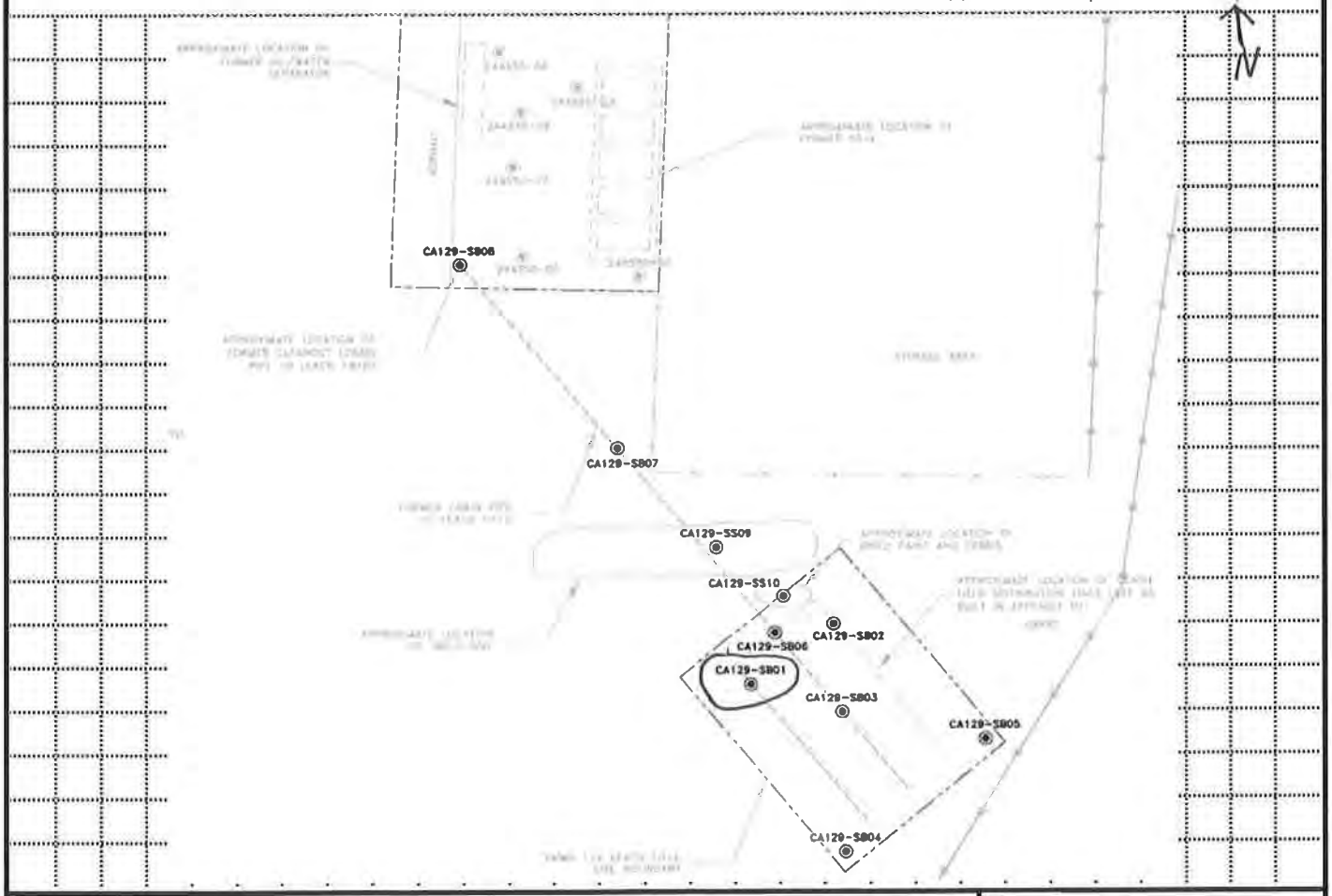
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS 4 + 1 MS/MSD	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
	X	X (RCRA)	TPH-DRO, GRO, GRO	SVOCs/PCBs	Pesticides	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[illegible]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA129-SB01

HTRW DRILLING LOG

HOLE NO. CA129-SB01

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (HS = Head Space Screening; FS=Field Screening; BKG = Background; PPM=Parts Per Million; ND=Not Detect)	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO.	BLOW COUNTS (PP=Pocket Pen)	REMARKS h
		SAND (SP) - Very loose, dry, light brown, very fine grained with coarse gravel	BKG = ND HS = 1.7		CA129-SB01-004	PP=1.0	START TIME = 0755 Fill Time (T) = 0805 Recovery (R) = 3.6/5.0
	1	Silty SAND (SM) - Very loose, dry, brown, fine grained				PP=0.5	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, and RCRA Metals
	2	Sandy SILT (ML) - Very stiff, dry, brown, low plastic					Native @ 2ft
	3					PP=2.0	
	4			NR			
	5				CA129-SB01-005		T = 0825 R = 3.6/5.0
		Becomes very soft, light tan, with calcareous nodules and no sand	HS = 2.9			PP=0.0	
	6						
	7	Becomes stiff, color grading from light tan to reddish brown				PP=2.0	
	8	With fine sand, no calcareous nodules					
	9			NR			
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB01

HTRW DRILLING LOG

HOLE NO. CA129-SB01

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: M Cline

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAME: SILT(ML) - Stiff, reddish brown, low plastic, with fine sand 0.3' of hard, light tan silt (weathered calcite) Becomes dark brown, with increased sand	HS=4.2		CA129-SB01-015		T=0845 R=5.0/5.0 Native soil
	11	Silty SAND(SM) - Loose, dry dark brown, fine grained, with trace coarse gravel					
		SILT(ML) - Very stiff, dry, light tan, low plastic, with calcareous nodules				PP=3.5	
	12						
		becomes stiff, tan					
	13						
						PP=2.0	
	14	Becomes light brown, with larger calcareous nodules (~0.5" in diameter)					
	15	Becomes soft			CA129-SB01-018		T=0900
		Silty SAND(SM) - loose, dry, brown, fine grained, with trace medium gravel	HS=4.1		+MS/MSD	PP=0	R=3.0/5.0
	16	Sandy SILT(ML) - Stiff, dry, brown, low plastic, with calcareous nodules				PP=1.5	
	17	with increasing sand				PP=0.5	
		SAND(SP) - loose, dry, brown, very fine grained, with trace calcareous nodules					
	18						
	19			NR			
	20	Bottom of boring ~20' bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB01

HTRW DRILLING LOG

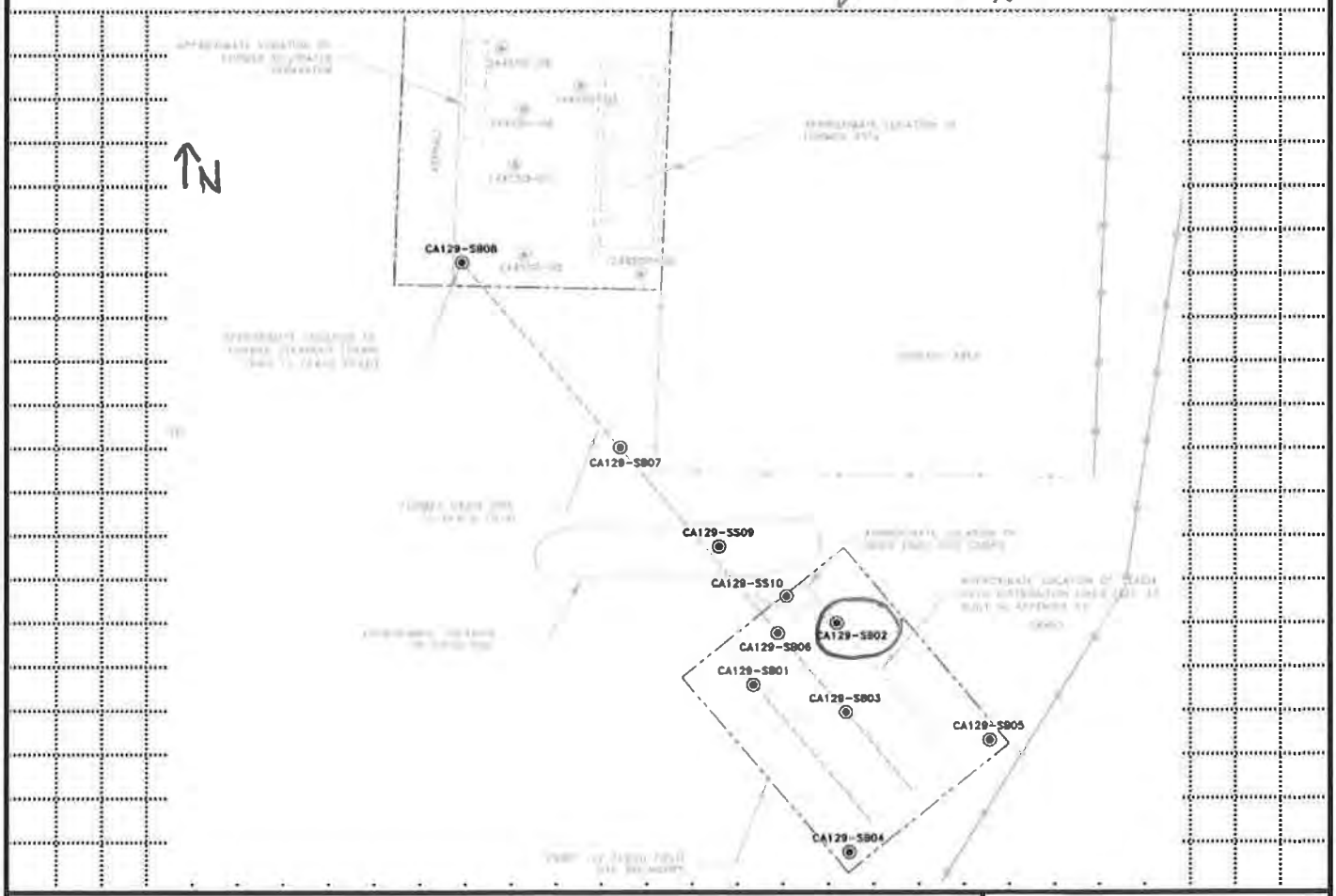
DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA129-SB02
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA129 - SB02, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jesse Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-ft Macro Core sampler with 1 5/8" diameter liner		8. HOLE LOCATION: 1238556.616 N, 849454.608 E
		9. SURFACE ELEVATION: 4311.8 ft above msl
		10. DATE STARTED: 1-25-13 @ 0948 / 11. DATE COMPLETED: 1-25-13 @ 1036
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: GW not encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 20 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø			N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4	VOCs/SVOCs	RCRA	TPH-GRO/DRO/ORO	Pesticides	PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandonded	Bentonite Pellets	—	—	

LOCATION SKETCH/COMMENTS — SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA129 - SB02

HTRW DRILLING LOG

HOLE NO. CA129-SB02

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	ALTERNATE SAMPLE CONTAINER BOX NO. c	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	0	Sandy SILT (ML) - Medium Stiff, dry, brown, low plasticity very fine sand	HS = Head Space Screening FS = Field Screening BKG = Background PPM = Parts Per Million ND = Not Detect BKG=ND			PP = Pocket Pen PP=2.0	START TIME = 0948 Time (T) Recovery (R)
	1				CA129-SB02-005		T=0955 R=5.0'/5.0' Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, and RCRA Metals
	2	Becomes stiff	FS=ND HS=ND		TPH-GRO, VOCs collected from the bottom of the sample interval	PP=3.0	
	3						
	4	Becomes clean, no SAND				PP=3.0	
	5	Becomes pale orangish-tan with caliche mottling				PP=3.0	
	6	Native Soil			CA129-SB02-010		T=1017 R=5.0'/5.0'
	7	trace very fine sand	FS=ND HS=ND		TPH-GRO, VOCs collected from the bottom of the sample interval		
	8						
	9	- Increased caliche nodules					
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB02

HTRW DRILLING LOG

HOLE NO. CA129-SB02

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [signature]

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same As ABOVE SILT (ML) - Medium Stiff, dry, pale orangish tan with white caliche mottling, some fine caliche nodules, trace sand				PP=2.0	
	11	Sand content increasing ↓	FS=ND		CA129-SB02-015 TPH-GRO, VOCs Collected from the bottom of the sample interval		T=1025 R=5.0'/5.0'
	12	SAND (SP) - loose to medium dense, light tannish-brown, very fine grain, trace caliche nodules - fine					
	13						
	14						
	15	Some SILT, becomes dense					
	16				CA129-SB02-020 ~~(extra volume for MS/MSD)~~		T=1036 R=5.0'/5.0'
	17	Sandy SILT (ML) - ~~Med~~ Stiff, dry-moist, pale orangish-tan with white caliche mottling, slight plasticity, some fine caliche nodules	FS=ND		TPH-GRO, VOCs Collected from the bottom of the sample interval	PP=2.5	
	18						
	19					PP=2.5	
	20	Bottom of Boring @ 20 ft bgs					END TIME = 1036

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB02

HTRW DRILLING LOG

DISTRICT: AFCEC - F-A8903-08-D-8783-TO-0169	HOLE NUMBER: CA129 - SB03	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 4
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA129 - SB03, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jesse Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: Geo Probe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with 1 5/8" diameter liner	8. HOLE LOCATION: 1238539.115 N, 849456.368 E	
	9. SURFACE ELEVATION: 4311.2 ft above msl	
	10. DATE STARTED: 1/25/13 @ 0750	11. DATE COMPLETED: 1/25/13 @ 0930
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 25 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

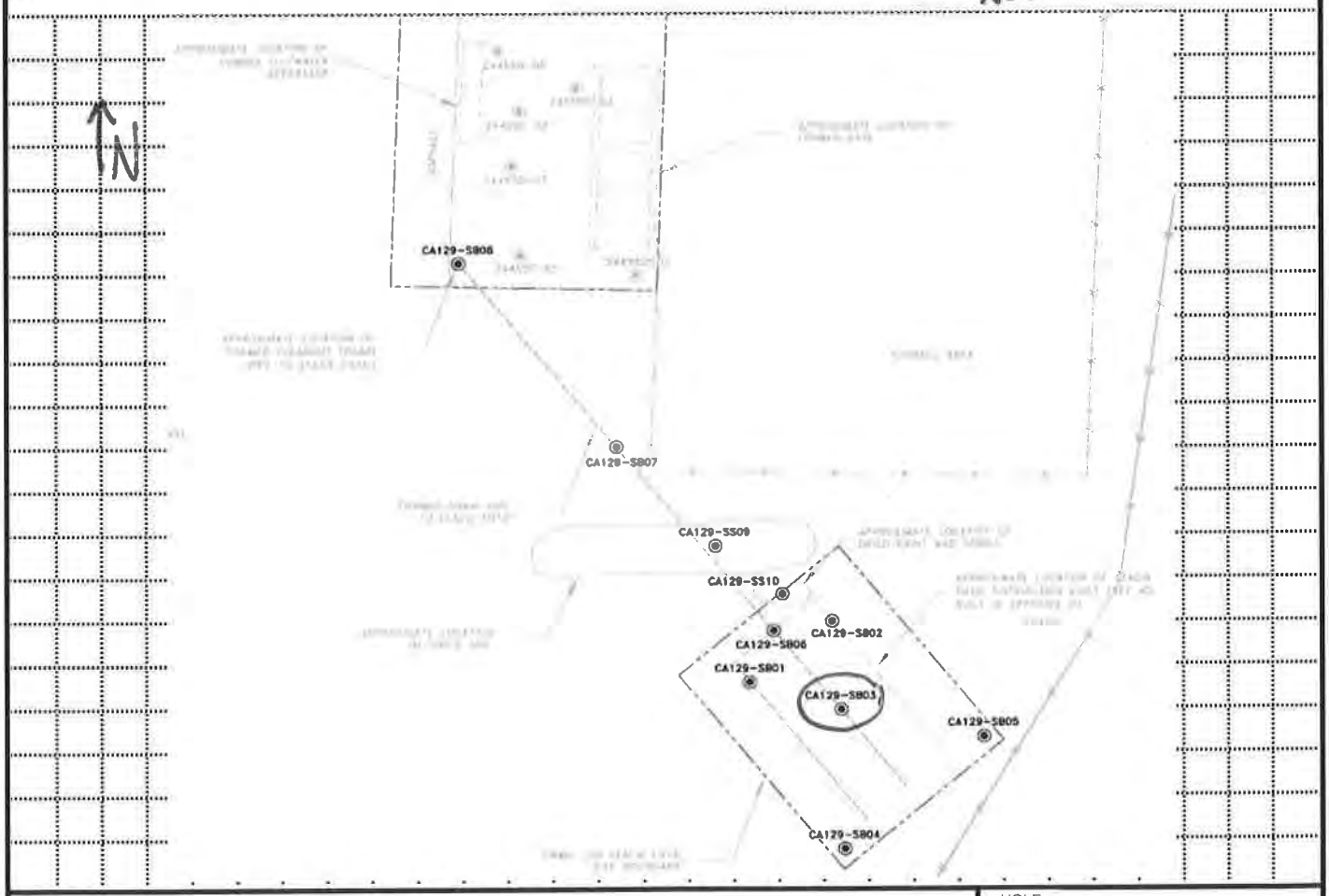
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
6	VOCs/SVOCs	RCRA	TPH-GRO/DRO/ORO	Pesticides	PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA129-SB03

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA129-SB03

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [signature]

SHEET 2 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND (SM) - Dense, dry, light brown, very fine grain, trace fine gravel - angular (broken) (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 0750 Time (T) Recovery (R)
	1		FS= ND HS=ND		CA129-SB03-005, and duplicate CA129-SB503-005 @ false time 0745 TPH-GRO and VOCs collected from the bottom of the sample interval		T= 0801 R=4.2'/5.0' Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, and RCRA Metals
	2	Plastic liner fragment @ 2.8 ft bgs					
	3	GRAVEL (GP) - loose, dry, asserted greys and pinks, fine, angular-broken (FILL)					
	4	Silty SAND - Medium dense, dry, light brown, very fine grain, some caliche nodules (FILL)				NO Recovery	Native Surface @ 5.3 ft bgs
	5	SILT with GRAVEL (ML-GP)				PP=1.0	*Switched to a Closed system for drilling due to Slough
	6	SILT (ML) - medium stiff, dry, pale orangish-white, slight plasticity, calcareous (Native)			CA129-SB03-010 TPH-GRO and VOCs collected from the bottom of the sample interval		T= 0828 R=4.3'/5.0'
	7		FS= ND HS=ND				
	8	Some Hard caliche nodules 8.5-9.3 ft bgs					
	9					NO Recovery	
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB03

HTRW DRILLING LOG

HOLE NO. CA129-SB03

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR Jennifer L Allen

SHEET 3 OF 4 SHEETS

ELEV a	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	Same As Above Calcareous SILT (ML) - Soft to medium Stiff, dry, pale orange - Off white, slight plasticity, trace fine caliche nodules				PP=1.0	
	11		FS=ND HS=ND		CA129-SB03-015 TPH-GRO, VOCs Collected from the bottom of the sample interval		T=0841 R=4.1'/5.0'
	12					PP=1.0	
	13					PP=1.0	
	14					NO Recovery	
	15	Darkens slightly to pale orange to light brown, increased fine caliche nodules				PP=1.0	
	16				CA129-SB03-020		T=0907 R=4.5'/5.0'
	17		FS=ND HS=ND		TPH-GRO, VOCs Collected from the bottom of the sample interval	PP=1.0	
	18					PP=1.0	
	19						
	20						

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA129-SB03

HTRW DRILLING LOG

HOLE NO. CA129-SB03

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer [illegible]

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	20	Same As Above Calcareous SILT (ML) - Medium Stiff, moist, pale orangish-tan, Slight plasticity				PP=1.5	
	21		FS=ND HS=ND		CA129-SB03-025		T=0930 R=5.0'/5.0'
	22				TPH-GRO, VOCs collected from the bottom of the sample interval	PP=1.5	
	23	Becomes pale orange to white, increased caliche nodules (fine to coarse)				PP=2.0	
	24	SAND (SP) - loose, moist, pale orangish-tan, very fine grain, trace silt & clay					
	25	Bottom of Boring @ 25 ft bgs					END TIME =0930
	26						
	27						
	28						
	29						
	30						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB03

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA129-SB04
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nold		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 5/8" diameter Sample sleeve		8. HOLE LOCATION: 1238511.501N 849457.072 E
		9. SURFACE ELEVATION: 4310.8 ft above msl
		10. DATE STARTED: 1-24-13 / 11. DATE COMPLETED: 1-24-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 20 feet below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

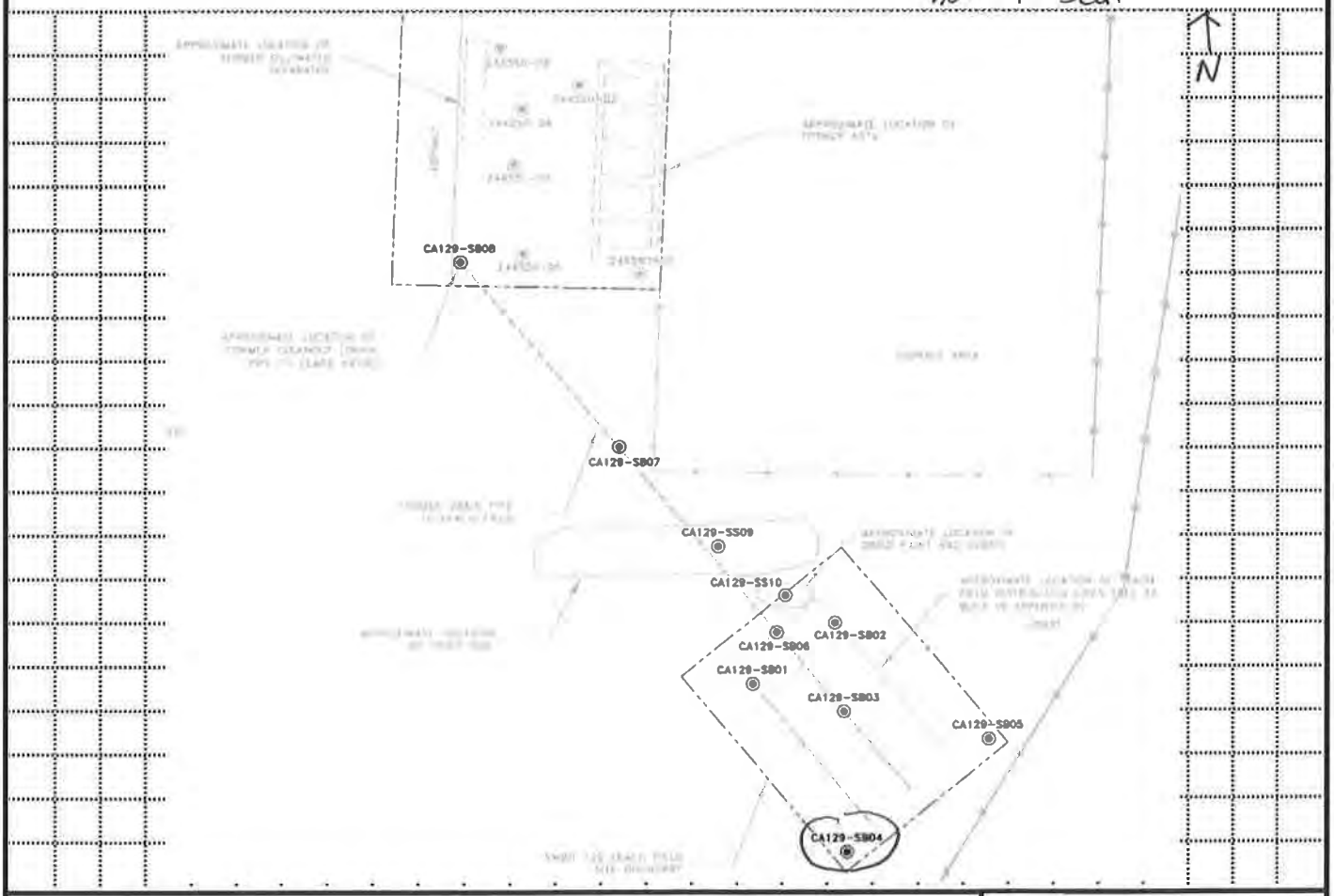
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	X	X (RCRA)	TPH-DRO, ORO, GRO	SVOCs/PCBs	Pesticides	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Backfilled with hydrated bentonite	X	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA 129-SB04

HTRW DRILLING LOG

HOLE NO. CA129-SB04

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M Cline

SHEET 2 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		~~Fill~~ MC SAND (SP) - Loose, dry, brown, fine grained, with gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect			PP=Pocket Pen	START TIME = 1414 Fill Time (T) = 1420 Recovery (R) = 4.6/5.0
	1	Sandy SILT (ML) - Very stiff, dry, brown, low plastic,	BKG = NR HS = 0.4		CA129-SB04-005	PP=2.5	Native soil
	2	becomes clean silt (no sand)					Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, and RCRA Metals
	3	With fine sand					
	3	With 0.4' of coarse gravel					
	4	Becomes hard				PP=4.0	
		Becomes light tan,					
				NR			
	5	Becomes soft, with calcareous nodules (weathered caliche)			CA129-SB04-009		T=1450 R=4.0/5.0
					Dup: CA129-SB04-009	PP=0.5	
	6		HS=0.1				
	7	Becomes medium stiff, with fine sand				PP=1.0	
		Becomes Stiff				PP=2.0	
	8						
		With large calcareous nodules					Drilling very difficult
	9			NR			
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB04

HTRW DRILLING LOG

HOLE NO. CA124-SB04

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: M Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
			HS=NA		~~CA124-SB04~~		~~T=~~ MC ~~R=~~ MC - Difficult drilling, original sample stuck in sampler, offset & redrilled after collecting from 15'-20' Recovery = 0/5' - After offset, sample stuck again. Will not be able to collect from this interval
11							
12				NR			
13							
14							
15		SAME: SILT (MC) Stiff, dry, light tan, low plastic, with calcareous nodules Becomes tan			CA124-SB04-020		T = 1545 R = 4.6/5.0
16		Becomes dark brown, no odor or PID hit Becomes reddish brown, with fine sand	HS=1.1				
17							
18		With increased sand					
19							
20		Bottom of Boring - 20' bgs			NR		

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA124-SB04

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO0169	HOLE NUMBER: CA129-SB05	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: CA129-SB05, Cannon AFB, Clovis, NM	
5. NAME OF DRILLER: Jesse Kalvig	6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with 1 5/8" diameter sample liner	8. HOLE LOCATION: 1238533.662 N 849483.994 E	
	9. SURFACE ELEVATION: 4311.1 ft above msl	
	10. DATE STARTED: 1-24-13 @ 1409	11. DATE COMPLETED: 1-24-13 @ 1515
12. OVERBURDEN THICKNESS: N/A	15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not Encountered	
13. DEPTH DRILLED INTO ROCK: N/A	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A	
14. TOTAL DEPTH OF HOLE: 20 feet (ft) below ground surface (bgs)	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A	

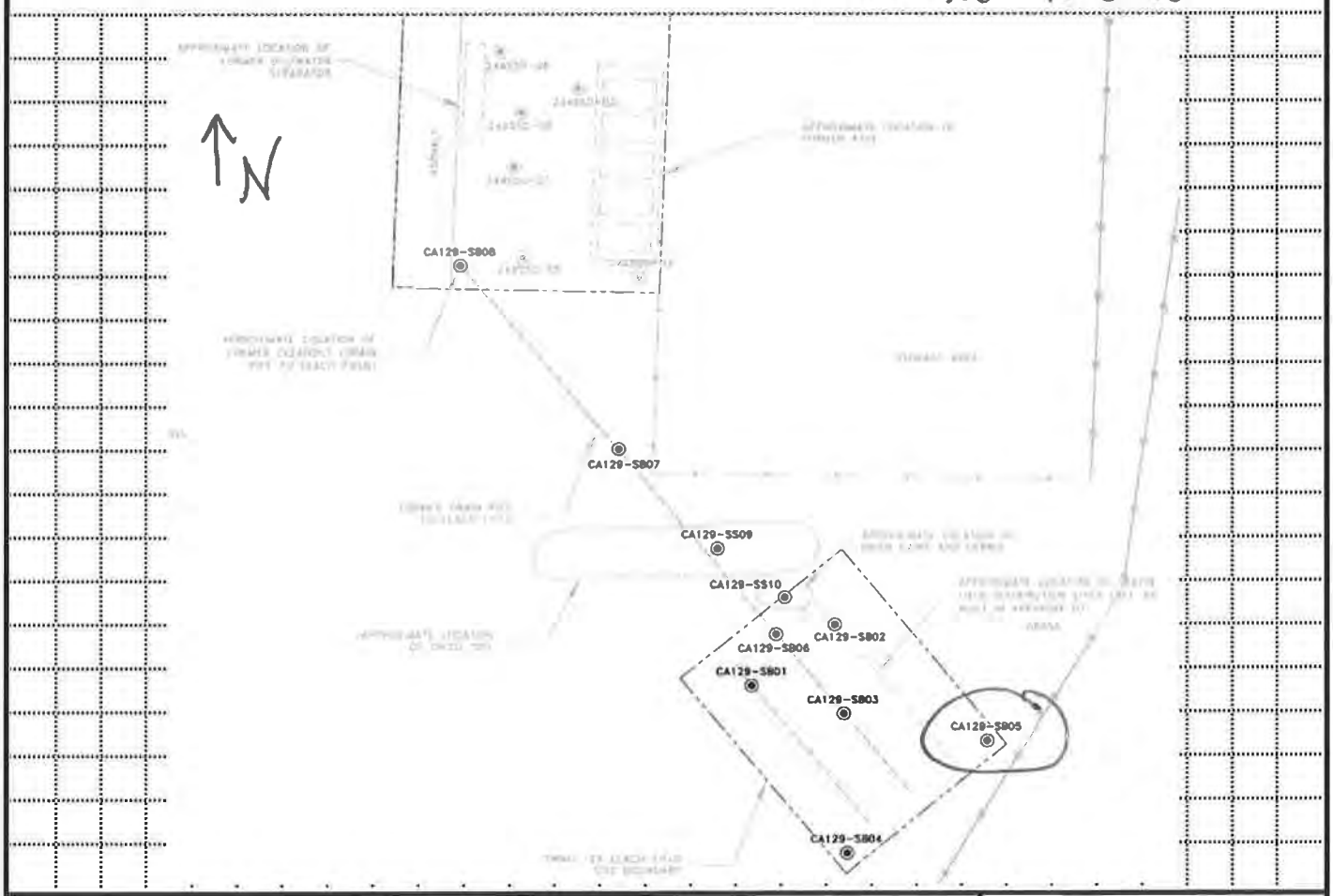
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø	—	—	N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	VOCs/SVOCs	RCRA	TPH-GRO/DRO/ORO	Pesticides	PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: Not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA129-SB05

HTRW DRILLING LOG

HOLE NO. CA129-SB05

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [signature]

SHEET 2 OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Sandy SILT (ML) - Medium Stiff, dry, brown, low plasticity, very fine sand	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen PP=1.5	START TIME = 1409 Time (T) Recovery (R) T=1415 R=5.0'/5.0'
	1						
	2	Trace white caliche mottling	FS = ND HS = ND		*CA129-SB05-005 (VOCs, TPH-GRO taken from the bottom of the sample interval)	PP=2.0	Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, and RCRA Metals
	3						* Duplicate taken: CA129-SB505-005 @ false time 1000
	4					PP=2.0	
	5	Becomes light brown				PP=1.5	T=1445 R=5.0'/5.0'
	6						
	7	Becomes Stiff, trace clay	FS=ND HS=ND		CA129-SB05-010 (VOCs, TPH-GRO taken from the bottom of the sample interval)	PP=3.5	
	8						
	9					PP=3.0	
	10	9.6-10ft bgs, increased caliche					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB05

HTRW DRILLING LOG

HOLE NO. CA129-SB05

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: Jennifer Miller

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
	10	Silty SAND (SM) - medium dense, dry light tamnish-brown, very fine to fine grain, trace fine-white caliche nodules, trace clay					
	11						T= 1458 R= 5.0'/5.0'
					CA129-SB05-015		
	12		FS=ND HS=ND		VOCs, TPH-GRO taken from the bottom of the sample interval		
	13						
	14						
	15	SAND (SP) - loose to medium dense, moist, light brown, very fine grain					
	16						T= 1515 R= 5.0'/5.0'
					CA129-SB05-020		
	17		FS=ND HS=ND		VOCs, TPH-GRO taken from the bottom of the sample interval		
	18	Becomes very light tan					
	19						END TIME = 1515
	20	Bottom of Boring @ 20 ft bgs					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB05

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA129-SB06	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 3
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe MacroCore, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1238554.72 N 849443.36 E	
	9. SURFACE ELEVATION: 4317.8 ft above msl	
	10. DATE STARTED: 1-25-13	11. DATE COMPLETED: 1-25-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 20'	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

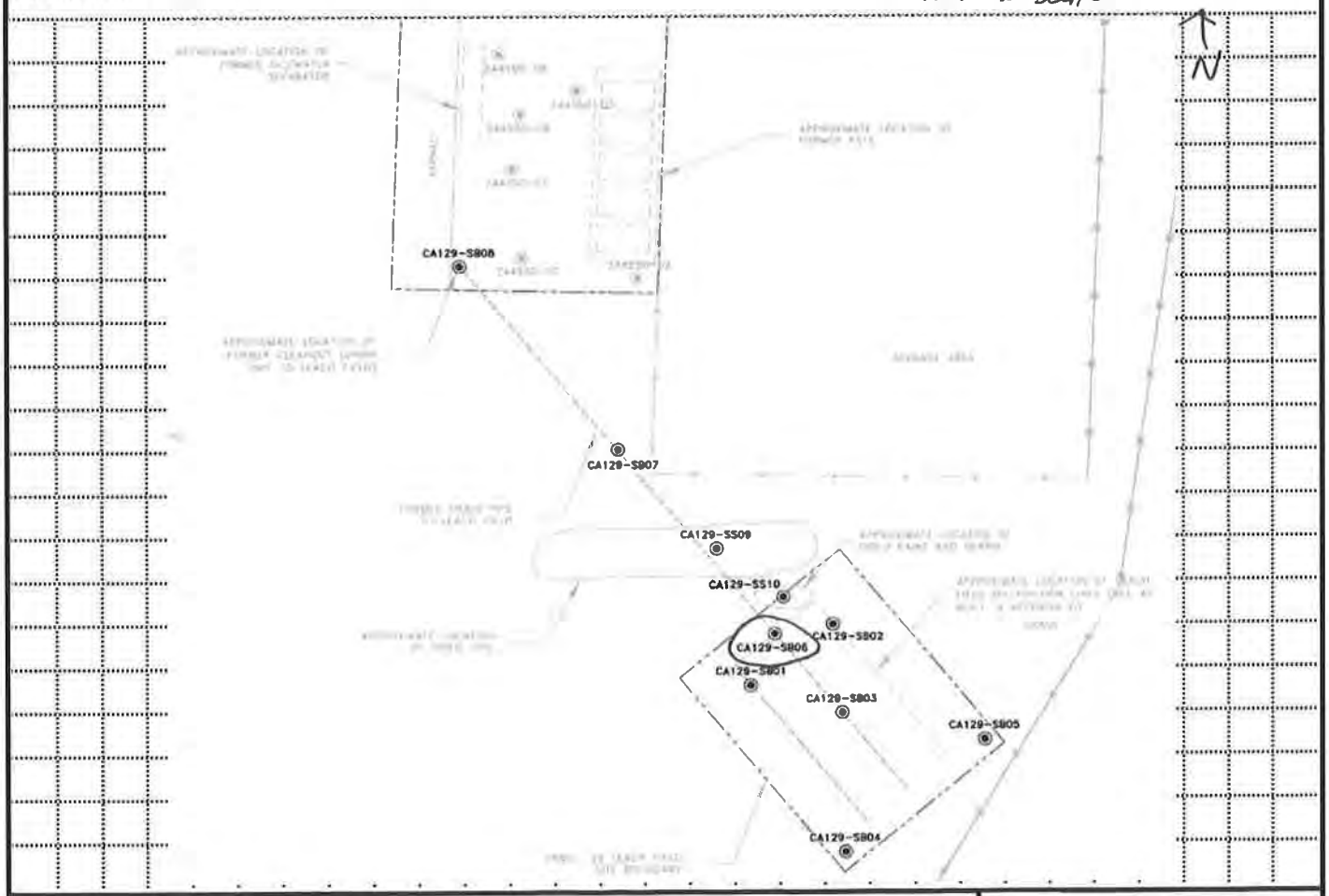
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	X	X (RCRA)	TPH-GRO, DRO, DRO	SVOCs/PCBs	Pesticides	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[illegible]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA129-SB06

HTRW DRILLING LOG

HOLE NO. CA129-SB06

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M Cline

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		Silty SAND (SM) - loose, dry, dark brown, fine grained, with trace gravel	HS = Head Space Screening FS = Field Screening BKG = Background PPM = Parts Per Million ND = Not Detect BKG = ND		CA129-SB06-003	PP = Pocket Pen	START TIME = 0950 Fill Time (T) = 0955 Recovery (R) 3.0/5.0
	1	Sandy SILT (ML) - Very stiff, dry, brown, low plastic, with trace gravel	HS = 0.2			PP = 2.5	Fill
	2	Sandy GRAVEL (GM) - loose, dry, brown, coarse, poorly sorted, with silt					Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, and RCRA Metals Fill
	3						
	4				NR		
	5		HS = 1.9		CA129-SB06-010 + dup (SB06-010) time = 0900		T = 1015 R = 5.0/5.0
	6	Sandy SILT (ML) - Very stiff, dry, reddish brown, low plastic				PP = 3.5	Native soil
	7	Becomes stiff, very light tan, with calcareous nodules and no sand				PP = 1.5	
	8	Becomes very stiff, tan				PP = 3.0	
	9	Silty SAND (SM) - Dense, dry, brown, fine grained, no calcareous nodules					* Soft drilling, advanced by weight of hammer alone
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB06

HTRW DRILLING LOG

HOLE NO. CA129-SB06

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: M. Cline

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO	BLOW COUNTS	REMARKS h
		SAME Silty SAND (SM) - Dense, dry, brown, fine grained	HS=3.6		CA129-SB06-015		T=1045 R=4.6/5.0
		Gravelly SAND (SP) - loose, dry, brown, fine grained, gravel diameter ~ 0.5"					
	11	With increasing gravel					
	12	Silty SAND (SM) - loose, dry, tan, fine grained, with trace gravel and calcareous nodules					
		Becomes medium dense					
	13						
		Becomes light brown, with increasing silt					
	14						
				NR			
	15		HS=1.9		CA129-SB06-020		T=1100 R=4.5/5.0
		Sandy GRAVEL (GW) - loose, dry, brownish gray, poorly sorted, gravel diameter ~ 0.7"					
	16						
	17						
		Silty SAND (SM) - loose, dry, reddish brown, fine grained					
	18						
	19						
				NR			
	20	~~Bottom of Boring - 20' bgs~~					

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB06

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8763-TO-0169		HOLE NUMBER: CA129-SB07
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: CA129-SB07, Cannon AFB, Clovis, NM
5. NAME OF DRILLER: Jesse Kalvig		6. MANUFACTURE'S DESIGNATION OF DRILL: GeoProbe 6620 DT
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 5-foot long Macro Core Sampler with a 1 5/8" diameter Sample liner		8. HOLE LOCATION: 1235891.47N 849913.23E
		9. SURFACE ELEVATION: 4312.4 ft above msl
		10. DATE STARTED: 1-25-13 @ 1114 / 11. DATE COMPLETED: 1-25-13 @ 1215
12. OVERBURDEN THICKNESS: N/A		15. DEPTH GROUNDWATER ENCOUNTERED: Groundwater not encountered
13. DEPTH DRILLED INTO ROCK: N/A		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: N/A
14. TOTAL DEPTH OF HOLE: 20 feet (ft) below ground surface (bgs)		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): N/A

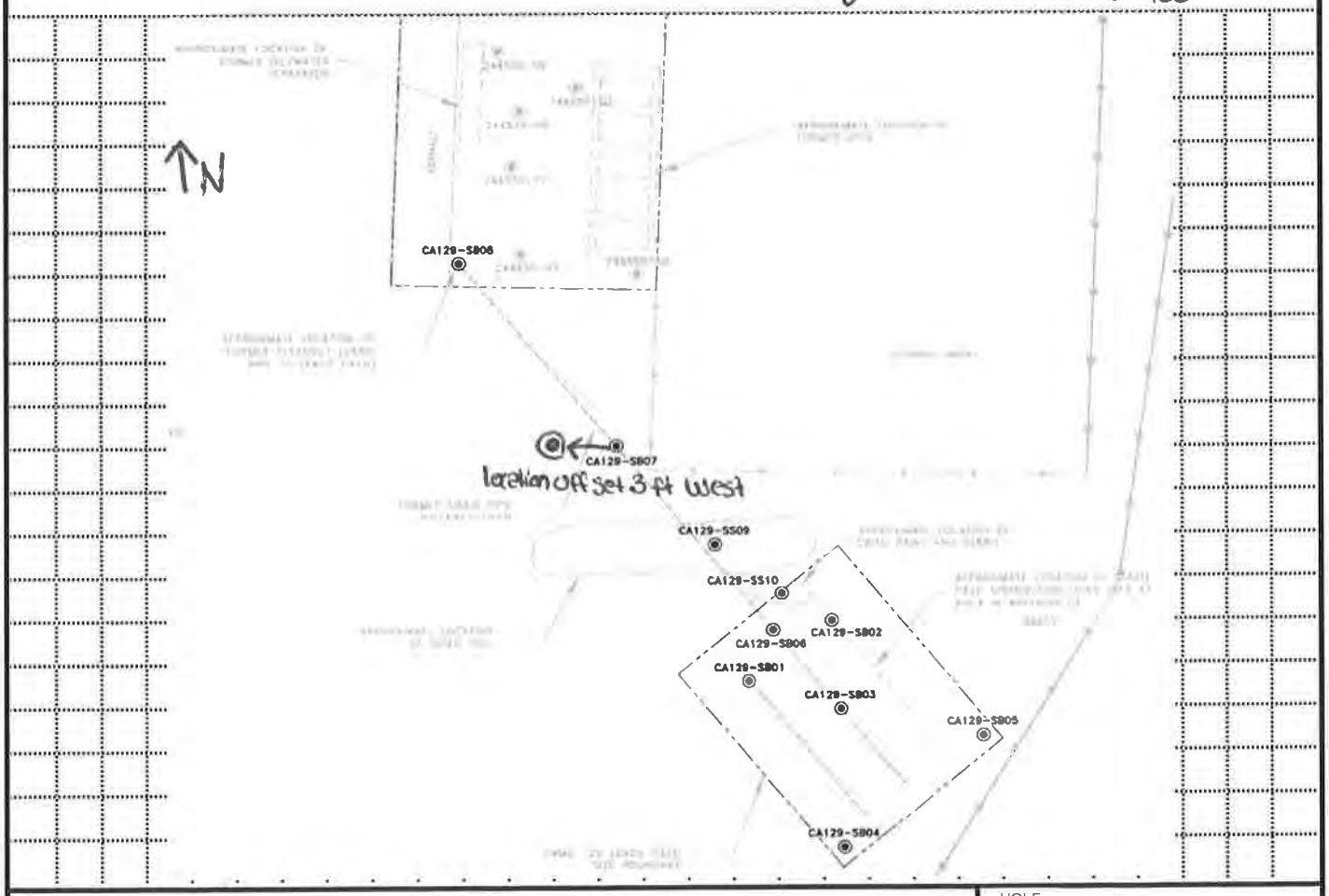
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
Ø			N/A

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
4 + MS/MSD	VOCs/SVOCs	RCRA	TPH-GRO/ORO/DRO	Pesticides	PCBs	N/A %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
Abandoned	Bentonite Pellets	—	—	Jennifer Miller

LOCATION SKETCH/COMMENTS

SCALE: NOT TO SCALE



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA129-SB07

HTRW DRILLING LOG

HOLE NO. CA129-SB07

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: [illegible]

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	0	Silty SAND (Sm) - Dense, dry, brown, fine grain, trace fill debris - Asphalt and gravel pieces, broken PVC (FILL)	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect BKG=ND			PP=Pocket Pen	START TIME = 1114 Time (T) Recovery (R) T=1121 R=4.5'/5.0'
	1						
	2		FS=ND HS=ND		CA129-SB07-005 TPH-GRO, VOCs Collected from the bottom of the sample interval		Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, and RCRA Metals
	3	SILT (ML) - Soft to medium Stiff, moist, brown, low plasticity (FILL)				PP=1.0	
	4	Native @ 4.0 ft bgs Becomes Calcareous, Stiff, dry, pale orangish-tan with white Caliche mottling				PP=3.0 NO Recovery	
	5	Becomes moist					
	6					PP=3.0	T=1140 R=5.0'/5.0'
	7		FS=ND HS=ND		CA129-SB07-010 TPH-GRO, VOCs Collected from the bottom of the sample interval	PP=3.5	
	8					PP=2.5	
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB07

HTRW DRILLING LOG

HOLE NO. CA129-SB07

PROJECT: :e Investigation at 8 Sites, Cannon AFB

INSPECTOR: [illegible]

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	10	SILT (ML) - Stiff, moist, pale orangish tan with white caliche mottling, Slight plasticity, trace sand				PP=3.0	
	11	Become Sandy SILT (ML), very fine sand, some fine caliche nodules			CA129-SB07-015	PP=2.5	T=1155 R=5.0'/5.0'
	12		FS=ND HS=ND		TPH-GRO, VOCs collected @ the bottom of the sample interval	PP=2.5	
	13						
	14						
	15				CA129-SB07-020	PP=3.5	
	16						T=1215 R=5.0'/5.0'
	17		FS=ND HS=ND		TPH-GRO, VOCs Collected @ the bottom of the sample interval	PP=3.0	
	18				Extra Volume for MS/MSD		
	19					PP=3.0	
	20	Bottom of Boring @ 20 ft bgs					END TIME = 1215

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB07

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169	HOLE NUMBER: CA129-SB08	
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF 3 SHEETS
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB	4. LOCATION: Cannon AFB, NM	
5. NAME OF DRILLER: R. Nold	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe MacroCore, 1 5/8" diameter sample sleeve	8. HOLE LOCATION: 1238628.03 N 849382.88 E	
	9. SURFACE ELEVATION: 4312.5 ft above msl	
	10. DATE STARTED: 1-25-13	11. DATE COMPLETED: 1-25-13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: NA	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA	
14. TOTAL DEPTH OF HOLE: 20' bgs	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA	

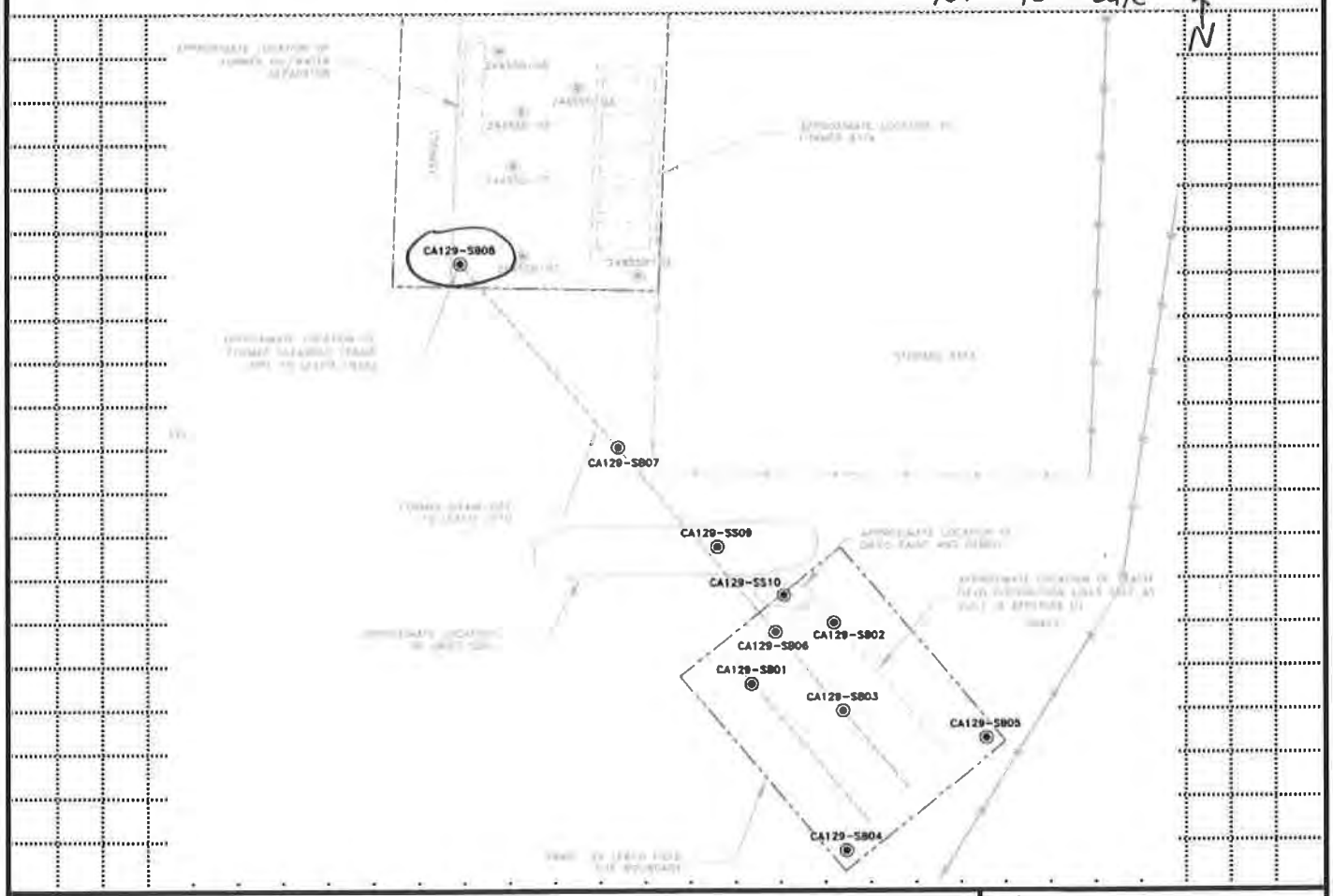
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
5	X	X (RCRA)	TPH-GRO/DRO, DRO	PCBs/SVOCs	Pesticides	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	Mike Clem

LOCATION SKETCH/COMMENTS

SCALE: Not to Scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA129-SB08

HTRW DRILLING LOG

HOLE NO. CA129-SB08

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M. Cline

SHEET 2 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Sandy CLAY (CL) – Medium stiff, dry, light brown, low plastic	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA129-SB08-004	PP=Pocket Pen	START TIME = 1150 Fill
		SAND (SP) – loose, dry, tan, poorly sorted	BKG = ND				Time (T) = 1155 Recovery (R) 4.1/5.0 Fill
	1	Silty SAND (SM) – medium dense, dry, brown, fine grained	HS = 1.9				Fill
	2						Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, and RCRA Metals
	3						
	4				NR		
	5	SILT (ML) – Stiff, dry, reddish brown, low plastic with trace fine sand	HS = 1.3		CA129-SB08-010	PP = 1.5	T = 1210 R = 4.6/5.0 Fill
	6	With no sand					
	7	With trace fine sand					
	8					PP = 3.0	
	9	Silty GRAVEL (GM) – Loose, dry, light tan, poorly sorted, angular grains					
	10				NR		

HTRW DRILLING LOG

HOLE NO. CA129-SB08

PROJECT :e Investigation at 8 Sites, Cannon AFB

INSPECTOR M. Clone

SHEET 3 OF 3 SHEETS

ELEV a	DEPTH b	DESCRIPTION OF MATERIALS c	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h
		~~Sandy~~ MC Clayey SAND (SC) - Dense, dry, dark brown, fine grained	HS = 0.7		CA129-SB08-015		T = 1330 R = 5.0/5.0
	11	SILT (ML) - Medium stiff, dry, ~~light~~ brown, low plastic				PP = 1.0	Native
		with increasing sand					
		Becomes brown					
	12						
		Becomes stiff				PP = 2.0	
	13						
	14	With decreasing sand					
						PP = 2.0	
	15	Becomes dark brown, with trace sand and gravel	HS = 0.9		CA129-SB08-020 +MS/MSD	PP = 1.0	T = 1345 R = 4.6/5.0
		Becomes soft, light brown, no sand					
	16						
	17	Becomes stiff, tan				PP = 2.0	
	18	Becomes reddish brown, with trace sand					
	19						
	20	~~Bottom of boring - 20' bgs~~			NR		

PROJECT Site Investigation at 8 Sites, Cannon AFB

HOLE CA129-SB08

HTRW DRILLING LOG

DISTRICT: AFCEC-FA8903-08-D-8783-TO-0169		HOLE NUMBER: CA129-SB09
1. COMPANY NAME: URS Corp.	2. DRILLING SUBCONTRACTOR: Plains Environmental Services	SHEET 1 OF SHEETS 2
3. PROJECT: Site Investigation at 8 Sites, Cannon AFB		4. LOCATION: Cannon AFB, NM
5. NAME OF DRILLER: R. Nadd		6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Geoprobe Macro Core, 1 3/8" diameter sample sleeve		8. HOLE LOCATION: 1238568.704 N 849413.685 E
		9. SURFACE ELEVATION: ? 4312.2 ft above msl
		10. DATE STARTED: 1-25-13 / 11. DATE COMPLETED: 1-25-13
12. OVERBURDEN THICKNESS: NA		15. DEPTH GROUNDWATER ENCOUNTERED: NA
13. DEPTH DRILLED INTO ROCK: NA		16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: NA
14. TOTAL DEPTH OF HOLE: 5' bgs		17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): NA

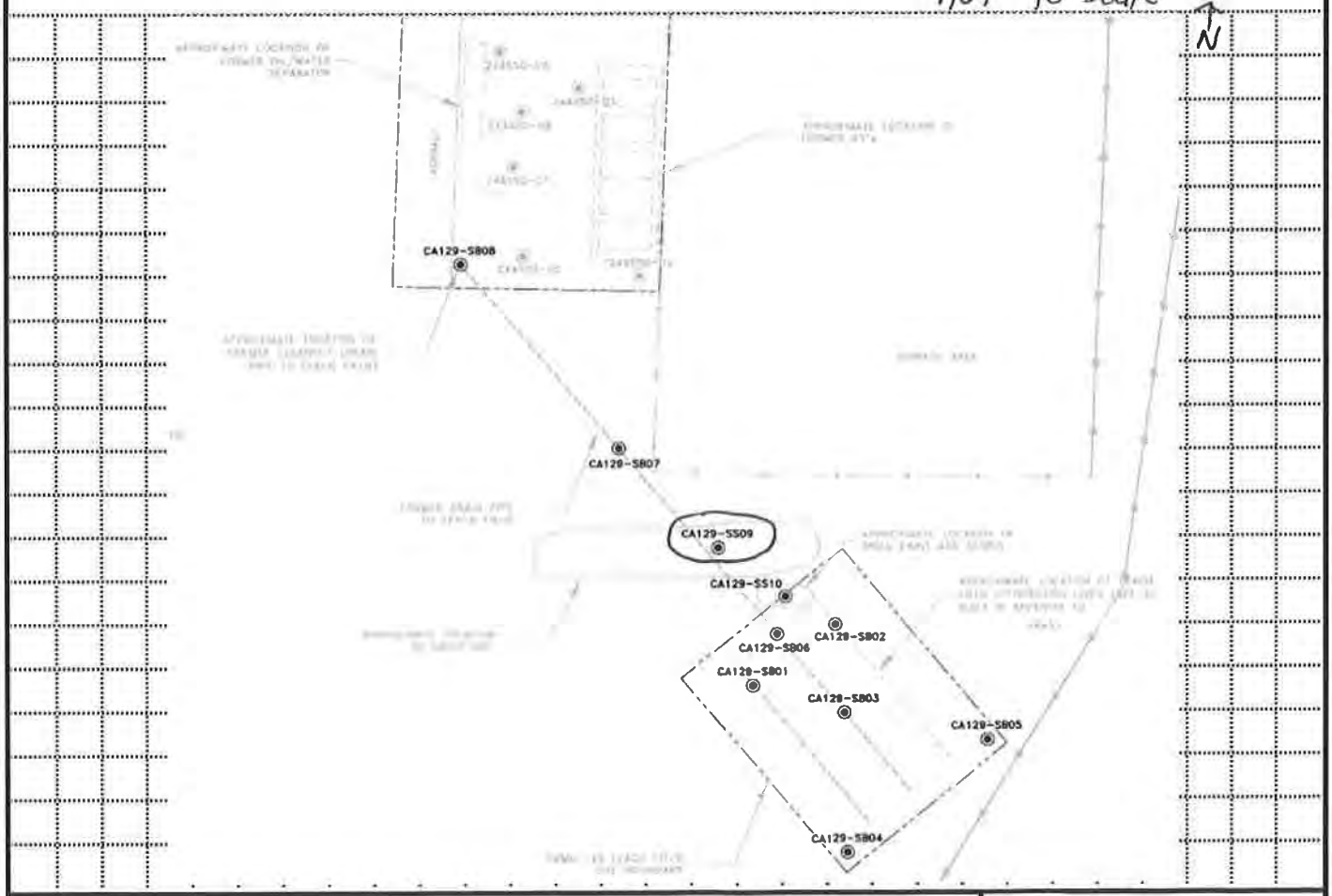
18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
0	—	—	—

20. SAMPLES FOR CHEMICAL ANALYSIS	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
1	X	X (RCRA)	TPH-GRO, DRO, ORO	SVOCs/PCBs	Pesticides	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[signature]

LOCATION SKETCH/COMMENTS

SCALE: not to scale



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA129-SB09

ENG FORM 5056-R, AUG 94 (Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA129-SB09

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M Cline

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO. e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		SAND(SP) – loose, dry, tan, fine grained	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA129-SB09-004	PP=Pocket Pen	START TIME = 1115 Fill
		GRAVEL(GW) – loose, dry, brown, medium grained	BKG = ND				Time (T) = 1120 Recovery (R) = 4.0/5.0 Fill
	1	Silty SAND (SM) – Medium dense, dry, brown, very fine grained	HS = 0.6				Native soil
	2	with increasing silt					Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, and RCRA Metals
	3	with decreasing silt					
	4				NR		
	5	Bottom of boring – 5' bgs					
	6						
	7						
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB09

HTRW DRILLING LOG

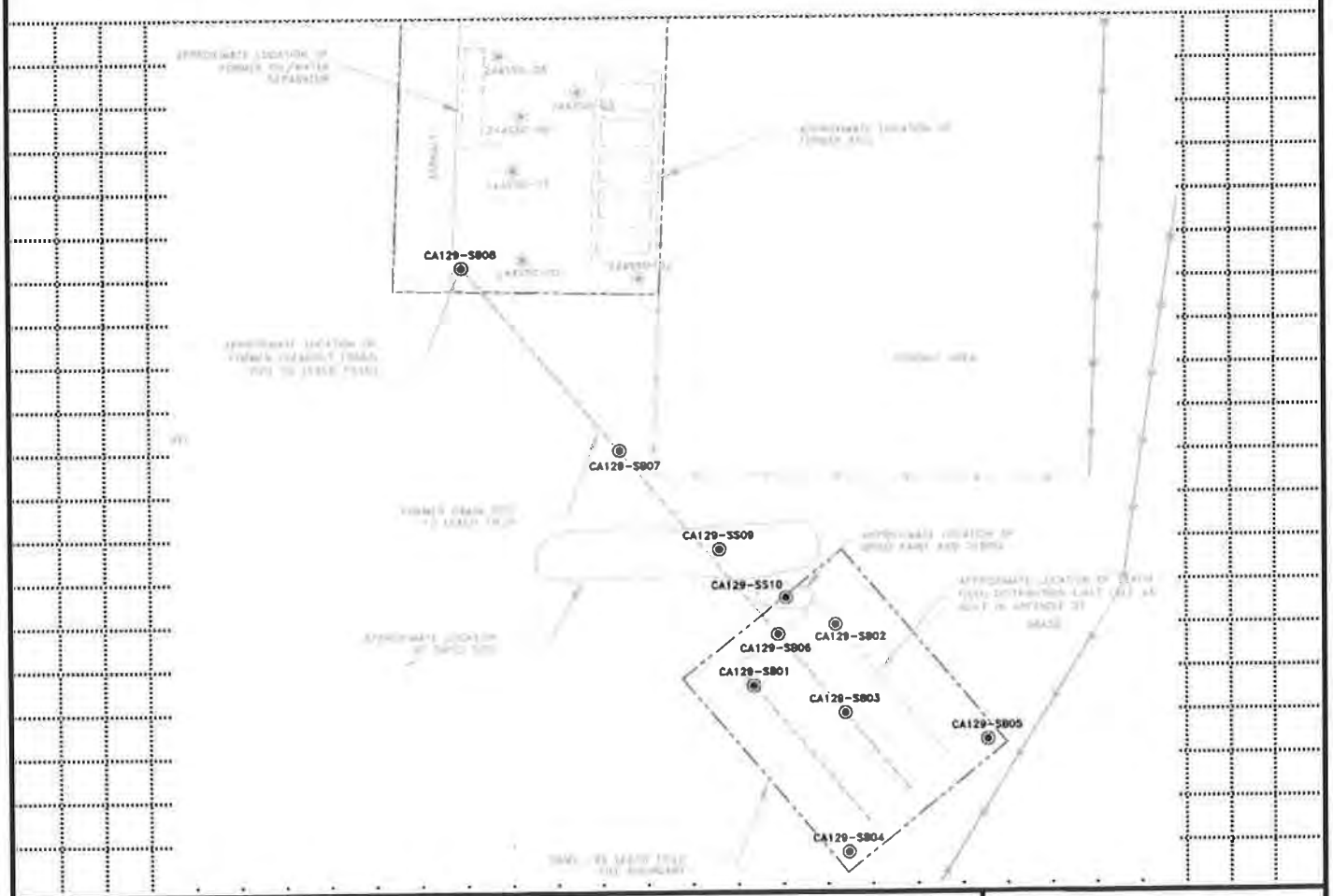
DISTRICT	AFCEC-FA8903-08-D-8783-TO-0169
HOLE NUMBER	CA129-SB10
1. COMPANY NAME	URS Corp.
2. DRILLING SUBCONTRACTOR	Plains Environmental Services
SHEET	1 OF 2 SHEETS
3. PROJECT	Site Investigation at 8 Sites, Cannon AFB
4. LOCATION	Cannon AFB, NM
5. NAME OF DRILLER	R. Nold
6. MANUFACTURE'S DESIGNATION OF DRILL	Geoprobe 5410
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT	Geoprobe Macro Core, 1 5/8" Sample sleeve
8. HOLE LOCATION	1238548.914 N 849445.972 E
9. SURFACE ELEVATION	4311.8 ft above msl
10. DATE STARTED	1-25-13
11. DATE COMPLETED	1-25-13
12. OVERBURDEN THICKNESS	NA
13. DEPTH DRILLED INTO ROCK	NA
14. TOTAL DEPTH OF HOLE	~~NA~~ MC 5' bgs
15. DEPTH GROUNDWATER ENCOUNTERED	NA
16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	NA
17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	NA
18. GEOTECHNICAL SAMPLES	0
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
1	X	X (RCRA)	TPH-GRO, DRO, DRO	SVOCs/PCBs	Pesticides	NA %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
hydrated bentonite chips	X	—	—	[illegible]

LOCATION SKETCH/COMMENTS

SCALE:



PROJECT	HOLE
Site Investigation at 8 Sites, Cannon AFB	CA129-SB10

ENG FORM 5056-R, AUG 94

(Proponent: CECW-EG)

HTRW DRILLING LOG

HOLE NO. CA129-SB10

PROJECT: Site Investigation at 8 Sites, Cannon AF

INSPECTOR: M Cline

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO e.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Silty SAND (SM) – loose, dry, brown, fine grained with trace coarse sand and gravel	HS = Head Space Screening FS=Field Screening BKG = Background PPM=Parts Per Million ND=Non Detect		CA129-SB10-003	PP=Pocket Pen	START TIME = 0920 Fill
		[delete line] Becomes	BKG = ND				Time (T) = 0925 Recovery (R) = 3.7/5.0
	1	~~Silty SAND (SM)~~ ~~loose~~ Medium dense, dry, brown, fine grained	HS = 2.6			[redacted]	Native soil
	2						Soil samples collected analyzed for VOCs, SVOCs, TPH-DRO, TPH-ORO, TPH-GRO, Pesticides, PCBs, and RCRA Metals
	3					[redacted]	
	4				NR		
		Bottom of boring – 5' bgs					
	5						
	6						
	7						
	8						
	9						
	10						

PROJECT: Site Investigation at 8 Sites, Cannon AFB

HOLE: CA129-SB10

Sample Collection Field Sheets

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB01-005

Boring No. CA501-SB01

Date/Time Collected: 1-29-13 / 1520

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 0.5-4.7

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-1.3	SAND (SP) - Loose, moist, tan, fine grained
1.3-~~5~~ 4.7	Silty SAND (SM) - Loose, moist, reddish brown, fine grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB01-010

Boring No. CA501-SB01 ~~-010~~

Date/Time Collected: 1-29-13 / 1535

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5-9.8

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~3~~ x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
6 ~~2~~ x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8 oz GLASS	4°	~~TPH-DRO~~ TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-9.8

Soil Description: CLAY(CL) - Stiff, moist, tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB02-004

Boring No. CA501-SB02

Date/Time Collected: 1-29-13 / 1055

Personnel: JC MC

Sample Method/Depth: Direct Push w/ Macro Core / 0.5-4.3

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-~~4.3~~ 1.3	Gravelly (SAND) (SP) - Loose, moist, tan, poorly sorted
1.3-2.8	Sandy CLAY (CL) - stiff, moist, brown, low plastic
2.8-3.9	Clayey (SILT) (ML) Very stiff, moist, reddish brown, low plastic
3.9-4.3	SILT (ML) - Soft, moist, tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB02-009

Boring No. CA501-SB02

Date/Time Collected: 1-29-13 / 1125

Personnel: JC MC

Sample Method/Depth: Direct Push w/ Macro Core / 5-9.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 5-9.0 Soil Description: SILT (ML) - soft, moist, tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501 - SB03 - 004

Boring No. CA501-SB03

Date/Time Collected: 1-29-13/1150

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core/0.5'-4.4'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA501-SB503-004

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
4 ~~2~~ x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	6.1

SOIL DESCRIPTION

Depth: 0.5-4.4 Soil Description: Silty CLAY (CL) - stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB03-010

Boring No. CA501-SB03

Date/Time Collected: 1-29-13/1210

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5-10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.3

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) - Stiff, moist, tan, low plastic, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB03-015

Boring No. CA501-SB03

Date/Time Collected: 1-29-13 / 1225

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 10'-15'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	5.5

SOIL DESCRIPTION

Depth:	Soil Description:
10-11.3	SILT (ML) - Stiff, moist, tan, low plastic
11.3-15	Silty SAND (SM) - Medium dense, moist, light brown, fine-grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB04-004

Boring No. CA501-SB04

Date/Time Collected: 1-29-13 / 1445

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 0.5-4.2

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-Gro (8015C)
2 x 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.4

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-1.2	Gravelly SAND (SP) - Loose, moist, brown, poorly sorted
1.2-4.2	Clayey SILT (ML) - Very stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB04-009

Boring No. CA501-SB04

Date/Time Collected: 1-29-13 / 1455

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5-9.3

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-9.3

Soil Description: Clayey SILT (ML) - Very stiff, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB05-005

Boring No. CA501-SB05

Date/Time Collected: 1-29-13 / 1355

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 0.5'-4.7'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5 - 1.6	Gravelly SAND (SP) - loose, moist, dark brown, poorly sorted
1.6 - 4.7	Clayey SILT (ML) - Very stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB05-010

Boring No. CA501-SB05

Date/Time Collected: 1-29-13 / 1410

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5'-10'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5 - 9.3	Clayey SILT (ML) - Very stiff, moist, light tan, low plastic
9.3 - 10	SAND (SP) - Loose, moist, tan, fine grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB06-009

Boring No. CA501-SB06

Date/Time Collected: 1-30-13 / 1045

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5-8.6'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~3~~ 2ml x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
6 ~~2~~ 2ml x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ 2ml x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.1

SOIL DESCRIPTION

Depth: 5-8.6

Soil Description: Silty SAND (SM) - loose, moist, tan, poorly sorted

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB06-005

Boring No. CA501-SB06

Date/Time Collected: 1-30-13 / 1000

Personnel: ML, JC

Sample Method/Depth: Direct Push w/ Macro Core / 0.5-5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-2.3	Clayey SAND (SC) - Medium dense, moist, brown, poorly sorted
2.3-5.0	Sandy SILT (ML) - Very stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB07-005

Boring No. CA501-SB07

Date/Time Collected: 1-29-13/ 1025

Personnel: ML, JC

Sample Method/Depth: Direct Push w/ Macro Core / 0.5-4.6

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-1.5	Sandy GRAVEL (GW) – loose, moist, brown, poorly sorted
1.5-~~5~~ 4.6	Clayey SILT (ML) – Very stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB07-010

Boring No. CA501-SB07 ~~010~~

Date/Time Collected: 1-29-13 / 1040

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5-9.6

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5-9.1	Clayey SILT (ML) - Very stiff, moist, brown, low plastic
9.1-9.6	SILT (ML) - Stiff, moist, tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB08-005

Boring No. CA501-SB08

Date/Time Collected: 1-30-13 / 0820

Personnel: ML, JC

Sample Method/Depth: Direct Push w/ Macro Core / 0.5'-4.6'

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Split Sample NO.

Sample QC Duplicate: YES NO (circled)

Duplicate Sample NO.

MS/MSD Requested: YES NO (circled)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-1.1	SAND (SP) - loose, moist, light brown, with silt + gravel
1.1-4.6	Sandy SILT (ML) - stiff, moist, light reddish brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB08-010

Boring No. CA501-SB08

Date/Time Collected: 1-30-13 / 0835

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5-10' bgs

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Split Sample NO.

Sample QC Duplicate: YES NO (circled)

Duplicate Sample NO.

MS/MSD Requested: YES NO (circled)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB09-004

Boring No. CA501-SB09

Date/Time Collected: 1-29-13 / 0750

Personnel: JC MC

Sample Method/Depth: Direct Push w/ Macro Core / 0.5-4.4

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA501-SB509-004

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
4 ~~2~~ x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-1.6	SAND (SP) - medium dense, moist, yellowish,
1.6-4.4	Sandy ~~%~~ CLAY ~~%~~ (CL) very stiff, moist, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB09-010

Boring No. CA501-SB09

Date/Time Collected: 1-29-13 / 0840

Personnel: JC MC

Sample Method/Depth: Direct Push w/ Macro Core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA501-SB09-010

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
4 ~~2~~ x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5.0-5.7	Sandy (CLAY (CL)) moist, brown, fine grained
5.7-8.9	Clayey (SILT (ML)) stiff, moist, light brown
8.9-10.0	Silty CLAY-(CL) Hard, Moist, tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB09-015

Boring No. CA501-SB09

Date/Time Collected: 1-29-13 / 0910

Personnel: JC MC

Sample Method/Depth: Direct Push w/ Macro Core / 100-145

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
10-12.5	Silty CLAY (CL) - Hard, moist, tan
12.5-~~15.0~~ 14.5 MC	Silty SAND (SM) - ~~Very stiff~~ Dense, moist, tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB10-005

Boring No. CA501-SB10

Date/Time Collected: 1-29-13 / 0930

Personnel: JC MC

Sample Method/Depth: Direct Push w/ Macro Core/05-50

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-2.7	Gravelly SAND (SP)
2.7-5.0	Silty CLAY (CL) - Very stiff, moist, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB10-010

Boring No. CA501-SB10

Date/Time Collected: 1-29-13 / 0950

Personnel: JC MC

Sample Method/Depth: Direct Push w/ Macro Core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-Gro (8015C)
2 x 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: ND

SOIL DESCRIPTION

Depth: 5.3-10.0 Soil Description: Silty CLAY (CL) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB11-005

Boring No. CA501-SB11

Date/Time Collected: 1-30-13 / 0910

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 0.5-5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-1.8	Asphalt
1.8-5	Clayey SILT (ML) - Stiff, moist, tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C501, Cannon AFB, Clovis NM

Project No. 16170622.00400

Sample No. CA501-SB11-009

Boring No. CA501-SB11

Date/Time Collected: 1-30-13 / 0925

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5-9.1'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO & TPH-ORO (8015C)
		SVOCs w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: ND

SOIL DESCRIPTION

Depth: 5-9.1

Soil Description: Clayey SILT (ML) - Very stiff, moist, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS02, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB01-004

Boring No. CA502-SB01

Date/Time Collected: 1-28-13 / 1200

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro core / 0-4' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.4

SOIL DESCRIPTION

Depth:	Soil Description:
0-0.7'	Asphalt
0.7-[redacted]4'	Fill (Clayey sand / Sand / Silty Clay)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB01-010

Boring No. CA502-SB01

Date/Time Collected: 1-28-13/1225

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core/5-10' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0-1

SOIL DESCRIPTION

Depth:	Soil Description:
5-8	SAND (SP) - loose, reddish brown, fine
8-10	CLAY (CL) - very stiff, dark brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB01-015

Boring No. CA502-SB01

Date/Time Collected: 1-28-13 / 1335

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core / 13-15' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.4

SOIL DESCRIPTION

Depth:	Soil Description:
13-13.8	SAND (SP) - loose, reddish brown
13.8-15	CLAY (CL) - Very stiff, dark brown, with gravel

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS02, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CAS02-SB01-020

Boring No. CAS02-SB01

Date/Time Collected: 1-28-13 / 1440

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core / 15-20' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0-3

SOIL DESCRIPTION

Depth: 15-20

Soil Description: Silty SAND (SM) - Loose, dry, light tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS02, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB01-025

Boring No. CA502-SB01

Date/Time Collected: 1-28-13 / 1500

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro core / 20-25' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.0 (ND)

SOIL DESCRIPTION

Depth: 20-25

Soil Description: Silty SAND (SM) - loose, dry, reddish tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB01-030

Boring No. CA502-SB01

Date/Time Collected: 1-28-13 / 1530

Personnel: MC/JC

Sample Method/Depth: Direct Push w/ macro core / 26.5-30' bgs

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	NA
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
26.5-27.5	Silty SAND (SM) - Loose, dry, reddish tan, with calcareous nodules
27.5-30	SILT (ML) - Stiff, dry, tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB02-005

Boring No. SB02

Date/Time Collected: 1-30-13 @ 1345

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro core 0-5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: SILT (ML) with caliche mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB02-010

Boring No. SB02

Date/Time Collected: 1-30-13 @ 1430

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core 5'-10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) - Calcareous

~~SAND (SP)~~

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB02-015

Boring No. SB02

Date/Time Collected: 1-23-13 @ 1430

Personnel: R. Herold, J. Allen

Sample Method/Depth: Direct Push w/ Macro core (10'-15')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 10'-15' Soil Description: SILT (ML) - Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB02-020

Boring No. SB02

Date/Time Collected: 1-30-13 @ 1442

Personnel: JAllen, R Herold

Sample Method/Depth: Direct Push w/ macro core 15'-20'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth:	Soil Description:
15'-18'	SAND (SP) with coarse caliche nodules
18'-20'	SILT (ML) - Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB02-025

Boring No. SB02

Date/Time Collected: 1-30-13 @ 1505

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core, 20'-25'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth:	Soil Description:
20'-23'	SILT (ML) to Sandy SILT (ML) - Calcareous
23'-25'	SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB02-030

Boring No. SB02

Date/Time Collected: 1-30-13 @ 1525

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core 25'-30'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth:	Soil Description:
25'-27'	SAND (SP) with fine caliche nodules + trace silt
27'-30'	Silty SAND (SM) with fine caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB03-005

Boring No. SB03

Date/Time Collected: 2-3-13 @ 1229

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (0-5)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Silty SAND and SILT (SM-CL) from 1-3.4 ft bgs
SILT (ML) to 5.0'

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB03-010

Boring No. SB03

Date/Time Collected: 2-3-13 @ 1240

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: 5-8.6 ft bgs SILT with Sand (ML)
8.6-10 ft bgs Silty SAND (SM) - calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB03-015

Boring No. SB03

Date/Time Collected: 2-3-13 @ 1247

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (10'-15')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: Silty SAND (SM) with trace whitish-tan caliche mottling and fine nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB03-020

Boring No. SB03

Date/Time Collected: 2-3-13 @ 1259

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (15'-20')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: Silty SAND (SM) - Calcareous with brownish-red silty sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS02, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB03-025

Boring No. SB03

Date/Time Collected: 2-3-13 @ 1305

Personnel: J. Allen, P. Herold

Sample Method/Depth: Direct Push w/ macro core / 20.0'-25.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 20-25 Soil Description: Silty SAND (SM) with caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB03-030

Boring No. SB03

Date/Time Collected: 2-3-13 @ 1310

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core / 25.0-30.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 25-30'

Soil Description: Silty SAND (SM) with caliche nodules and very fine grain sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB04-005

Boring No. SB04

Date/Time Collected: 1-28-13 @ 1155

Personnel: RH, JA

Sample Method/Depth: Direct Push w/ Macro Core (0-5')

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Sample QC Duplicate: YES NO (circled)

MS/MSD Requested: YES NO (circled)

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
2 40 ml VOA	MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth:	Soil Description:
0-4.2'	SAND (SP) w/ trace caliche
4.2-5.0'	No recovery

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. C4502-SB04-008

Boring No. SB04

Date/Time Collected: 1-28-13 @ 1202

Personnel: RH, JA

Sample Method/Depth: Direct Push w/ Macro Core (5-8')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
(2) 40 ml VOA	MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-8'

Soil Description: SAND (SP) with some silt

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB04-010

Boring No. ~~RH~~ SB04

Date/Time Collected: 1-28-13 @ 1202

Personnel: RH, JA

Sample Method/Depth: Direct Push w/ Macro Core (8-10)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
(2) 40 ml VOA	MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	25ppm
Headspace	ND

SOIL DESCRIPTION

Depth: 8'-10'

Soil Description: SAND (SP) with Clay lense 9'-9.2'

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. C4502-SB04-015

Boring No. SB04

Date/Time Collected: 1-28-13 / 1257

Personnel: RH, JA

Sample Method/Depth: Direct Push w/ Macro Core (10-15')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
(2) 40 mL VOA	MeOH	Site Related SVOCs
		TPH GRO

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SAND (SP) with Concrete 10.2'-12.2'

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB04-020

Boring No. SB04

Date/Time Collected: 1-28-13 @ 1320

Personnel: RH, JA

Sample Method/Depth: Direct Push w/ Macro Core /15.0'-20.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
(2) 40ml VOA	MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SAND (SP) w/some clay

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB04-025

Boring No. SB04

Date/Time Collected: 1-28-13 @ 1335

Personnel: JA, RH

Sample Method/Depth: Direct Push w/ Macro Core (20-25)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs
2 (40 mL) VOAs	MeOH	TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 20'-25' Soil Description: Sand (SP) and Sandy SILT (ML) w/ caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB04-030

Boring No. SB04

Date/Time Collected: 1-28-13 @ 1400

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (25-30)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
(2) 40 mL VOAs	2 MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 25'-30'

Soil Description: Sandy SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB05-005

Boring No. SB05

Date/Time Collected: 2-1-13 @ 0820

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (0-5)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. ~~CA502-SB05-005~~ @ false time 0700

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	4 ~~2~~-water 2 ~~1~~-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	4 ~~2~~-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring

Headspace

SOIL DESCRIPTION

Depth: 0-5

Soil Description: Clayey-Sandy SILT (ML-CL) Fill with concrete debris, Native @ 2.6ft bgs - SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS02, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB05-010

Boring No. SB05

Date/Time Collected: 2-1-13 @ 0841

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (5-10)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) - Some fine to coarse caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS02, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB05-015

Boring No. SB05

Date/Time Collected: 2-1-13 @ 0900

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) - calcareous with fine to coarse caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB05-020

Boring No. SB05

Date/Time Collected: 2-1-13 @ 0923

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (15'-20')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	40	TPH-DRO, TPH-ORO (8015C)
(2) 40 mL VOAS	2MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: Sandy SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB05-025

Boring No. SB05

Date/Time Collected: 2-1-13 @ 0950

Personnel: JA/PH

Sample Method/Depth: Direct Push w/ Macro Core (20-25')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
(2) 40 ml VOAs	MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 20'-25' Soil Description: SILT (ML) - trace caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB05-030

Boring No. SB05

Date/Time Collected: 2-1-13 @ 1015

Personnel: RH/JA

Sample Method/Depth: Direct Push w/ Macro Core (25-30')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 25'-30' Soil Description: SILT (ML) to Silty SAND (SM)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB06-005

Boring No. SB06

Date/Time Collected: 1-31-13 @ 0940

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core 0'-5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Sandy SILT to SILT (CL-ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB06-010

Boring No. SB06

Date/Time Collected: 1-31-13 @ 0958

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth:	Soil Description:
5'-9.2'	SILT (ML)
9.2'-10.0'	No Recovery

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB06-015

Boring No. SB06

Date/Time Collected: 1-31-13 @ 1012

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT with CALICHE (ML) - Caliche present in layers and in fine to coarse nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. C4502-SB06-020

Boring No. SB06

Date/Time Collected: 1-31-13 @ 1033

Personnel: R Herold, J Allen

Sample Method/Depth: Direct Push w/ Macro core (15'-26')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SILT (ML) with white caliche mottling, calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB06-025

Boring No. SB06

Date/Time Collected: 1-31-13 @ 1045

Personnel: R Herold, J Allen

Sample Method/Depth: Direct Push w/ macro core (20-25)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: SILT (ML) - calcareous with silty sand mottling (brownish-red

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB06-030

Boring No. SB06

Date/Time Collected: 1-31-13 @ 1103

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (25'-30')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 25'-30'

Soil Description: SILT (ML) with brownish red silty sand mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB07-005

Boring No. SB07

Date/Time Collected: 1-31-13 @ 1250

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (0-5)

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Sample QC Duplicate: YES (circled) NO

MS/MSD Requested: YES NO (circled)

Split Sample NO. —

Duplicate Sample NO. ~~CA502-SB07~~-005 @ false time @700

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: 0-0.8' Asphalt and Concrete (NOT SAMPLED)
0.8'-5.0' SAND (SP) and Sandy SILT (ML)
native @ 3.5 ft bgs, pale orangish-tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB07-010

Boring No. SB07

Date/Time Collected: 1-31-13 @ 1300

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (5.0-10.0)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: ~~Sandy~~ SILT (ML) - high caliche content with trace reddish-brown Sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB07-015

Boring No. SB07

Date/Time Collected: 1-31-13 @ 1311

Personnel: J Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) with high caliche content and trace reddish-brown silty SAND

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB07-020

Boring No. SB07

Date/Time Collected: 1-31-13 @ 1333

Personnel: J Allen, R. Herold

Sample Method/Depth: Direct Push w/Macro core (15-20)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SILT (ML) with reddish-brown silty sand and fine to coarse caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB07-025

Boring No. SB07

Date/Time Collected: 1-31-13 @ 1348

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro core (20'-25')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: N.D.

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: Sandy SILT (ML) with pale tan caliche mottling and fine to coarse caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB07-030

Boring No. SB07

Date/Time Collected: 1-31-13 @ 1415

Personnel: R Herold, J Allen

Sample Method/Depth: Direct Push w/ macro core / 25.0'-30.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background: ND

Breathing zone: ✓

Boring: ✓

Headspace: ✓

SOIL DESCRIPTION

Depth: 25'-30'

Soil Description: Sandy SILT (ML) with pale caliche mottling and fine to coarse caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB08-005

Boring No. CA502-SB08

Date/Time Collected: 1-30-13 / 1245

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core / 0.5-4.6

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-3.9	Gravelly SAND (SP) - loose, dry, white poorly sorted
3.9-4.6	SILT (ML) - stiff, moist, light tan, low plastic, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS02, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB08-010

Boring No. CA502-SB08

Date/Time Collected: 1-30-13 / 1305

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core / 5-9.6

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-9.6

Soil Description: SILT (ML) - Stiff, moist, light tan, low plastic, with calcareous concretions

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB08-015

Boring No. CA502-SB08

Date/Time Collected: 1-30-13 / 1325

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.1

SOIL DESCRIPTION

Depth: 10-15

Soil Description: SILT(ML) - Stiff, moist, reddish brown, low plastic, with clay

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB08-018

Boring No. CA502-SB08

Date/Time Collected: 1-30-13 / 1535

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core / 15-18

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 15-18

Soil Description: SILT (ML) - Stiff, dry, light tan, low plastic, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB08-025

Boring No. CA502-SB08

Date/Time Collected: 1-30-13/1610

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core / 20-25

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40 ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 20-25

Soil Description: SILT (ML) - Stiff, dry, light tan, low plastic, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB08-030

Boring No. CA502-SB08

Date/Time Collected: 1-30-13/1630

Personnel: MC/JC

Sample Method/Depth: Direct Push w/ macro core/25-30

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
6 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 25-30

Soil Description: SILT (ML) - Stiff, dry, reddish tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB09-005

Boring No. SB09

Date/Time Collected: 2-1-13 @ 1345

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (0-5)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
2 (40 ml) VOAS	MeOH	Site Related SVOCs
		TPH - GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Sandy SILT (fill) Native @ 4.0' bgs

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB09-010

Boring No. SB09

Date/Time Collected: 2-1-13 @ 1355

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (50-100)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
2(40 mL) VOAs	MeOH	Site Related SVOCs
		TPH - GRO

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 05'-10' Soil Description: SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB09-015

Boring No. SB09

Date/Time Collected: 2-1-13 @ 1415

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (10-15)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs
2 (40ml) VOAs	MeOH	TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 10-15 Soil Description: SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB09-020

Boring No. SB09

Date/Time Collected: 2-1-13 @ 1440

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (15-20)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA502-SB509-020 @ fake time 0830

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 X 40 ml VOA	4 X-water 2 X-MeOH 4°	BTEX + naphthalene (8260B)
4 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
(4) 40 ml VOAs	MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SILT (ML) - Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB09-025

Boring No. SB09

Date/Time Collected: 2-1-13 @ 1500

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (20'-25')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. ~~CA502-SB09-025~~

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ X 40 ml VOA	4 2-water, 2 X-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
(4) 40 ml VOAs	MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: SILT (ML) 20 to 22.1 ft bgs
SAND (SP) 22.1 to 25 ft bgs

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB09-030

Boring No. SB09

Date/Time Collected: 2-1-13 @ 1520

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (25-30')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs
2 40 ML VOAs	MeOH	TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 25'-30' Soil Description: SAND (SP) - fine grained, tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB10-005

Boring No. SB10

Date/Time Collected: 2-3-13 @ 1400

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (0-5)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260 B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOC w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth:	Soil Description:
0-3.4'	SILT (CL) - Topsoil (Fill)
3.4-5.0'	SILT (ML) - Calcareous (native)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB10-010

Boring No. SB10

Date/Time Collected: 2-3-13 @ 1408

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260 B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOC w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth:	Soil Description:
5.0'-10.0'	SILT (ML) - calcareous 5'-7.3', clean 7.3'-10.0'

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB10-015

Boring No. SB10

Date/Time Collected: 2-3-13 @ 1423

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (10'-15')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA's	2-water, 1-MeOH 4°	VOC's (8260 B)
2 X 40 ml VOA's	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOC w/ LL PAH's (8270D)
		RCRA Metals (6020A/7471B)
		PCB's (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: 10'-13.5' Sandy SILT (ML) - calcareous
13.5'-15.0' Silty SAND (SM) - very fine to fine w/ caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB10-020

Boring No. SB10

Date/Time Collected: 2-3-13 @ 1435

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core (15'-20')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260 B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOC w/LL PAHs (8270D)
		RCRA Metals (6010A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SAND (SP) - very fine to fine grain w/some caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB10-025

Boring No. SB10

Date/Time Collected: 2-3-13 @ 1439

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (20'-25')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260 B)
2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 x 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOC w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: SAND (SP) - Some caliche 20'-22', clean
22'-25' Orangish-tan very fine to fine grain

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB10-030

Boring No. SB10

Date/Time Collected: 2-3-13 @ 1450

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core/25.0-30.0

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260 B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOC w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 25'-30'

Soil Description: SAND (SP) - reddish orange, fine grain, trace caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB11-005

Boring No. SB11

Date/Time Collected: 2-1-13 @ 1040

Personnel: RH/JA

Sample Method/Depth: Direct Push w/ Macro Core (0'-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
2 (40mL) VOAs	MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5

Soil Description: Sandy SILT to SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB11-010

Boring No. SB11

Date/Time Collected: 2-1-13 @ 1052

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (5-10)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
2 (40ml) VOAs	MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) w/some fine caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB11-015

Boring No. SB11

Date/Time Collected: 2-1-13 @ 1110

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (10-15)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
2 (40 ml) VOAS	MeOH	Site Related SVOC's
		TPH-GRO

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 10'-15' Soil Description: SILT (ML) w/some Sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION CA502

Site Name: ST-~~CA502~~, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB11-020

Boring No. SB11

Date/Time Collected: 2-1-13 @ ~~1410~~ 1125

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (15-20')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: ~~YES~~ (NO) N/A

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
2 (40 ML) VOAS	MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15-20' Soil Description: SILT (ML) w/trace caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB11-~~010~~ 025

Boring No. SB11

Date/Time Collected: 2-1-13 @ ~~1120~~ 1140 (20-25)

Personnel: JA/RA

Sample Method/Depth: Direct Push w/ Macro Core (~~10-15~~)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: (YES) NO

Split Sample NO. —

Sample QC Duplicate: (YES) ~~NO~~

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

↳ CA502-SB511-025 @ take time 0730

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~2~~ X 40 ml VOA	4 ~~2~~-water ~~2~~ 4-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ X 8 oz. GLASS		TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs
4 ~~2~~ (40 ml) VOAs	MeOH	TPH-GRO

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 20-25 Soil Description: SILT (ML) - CALCAREOUS

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB11-028

Boring No. SB11

Date/Time Collected: 2-1-13 @ 1153

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (25-28)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA502-SB511-028 @ false time 0800

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~2~~ x 40 ml VOA	4 ~~2~~-water 2 ~~1~~-MeOH 4°	BTEX + naphthalene (8260B)
4 ~~2~~ x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
4 (40 ml) VOAs	MeOH	Site Related SVOCs
		TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 25-28 Soil Description: Silt (ML) and Sand (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB11-035

Boring No. SB11

Date/Time Collected: 2-3-13 @ 1624

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ macro core (30-35)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 30'-35' Soil Description: SAND(SP) w/ some caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB11-040

Boring No. SB11

Date/Time Collected: 2-3-13 @ 1636

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core (35-40)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 35-40' Soil Description: SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD - CA502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB12-005

Boring No. SB12

Date/Time Collected: 1-31-13 @ 0836

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core 0-5.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's, Lead
		~~Pesticides~~
		~~RCRA metals~~
		~~PCB's~~ ~~Explosives~~
~~1 X 4 oz. Glass~~	~~4°C~~	~~Dioxins / Furans~~

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Sandy SILT with gravel (CL) (FILL)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD - CA502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB12-010

Boring No. SB12

Date/Time Collected: 1-31-13 @ 0846

Personnel: R Herold, J Allen

Sample Method/Depth: Direct Push w/ Macro Core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's, Lead
		~~Pesticides~~
		~~RCRA metals~~
		~~PCB's~~ ~~Explosives~~
		~~Dioxins / Furans~~
~~1 X 4 oz. Glass~~	~~4°~~	

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: ~~0.5'~~ 5.0' - 10'

Soil Description: SILT (ML) with caliche mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB13-004

Boring No. CA502-SB13

Date/Time Collected: 2-1-13/ 0810

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/0.5-3.6

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260 B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOC w/LL PAHs (8220D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-2.0	Gravelly SAND(SP) - Loose, dry, light tan, poorly sorted
2.0-3.6	SILT(ML) - Stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB13-009

Boring No. CA502-SB13

Date/Time Collected: 2-1-13/0825

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/5-9.3

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260 B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOC w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 5-9.3

Soil Description: Silty SAND (SP) - Loose, moist, tan, fine, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C502, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA502-SB13-012

Boring No. CA502-SB13

Date/Time Collected: 2-1-13/0840

Personnel: MC/JC

Sample Method/Depth: Direct Push w/macro core/10-12

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOCs (8260 B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO & TPH-ORO (8015C)
		SVOC w/LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: ND

SOIL DESCRIPTION

Depth:	Soil Description:
10 – 11.2	Clayey SILT (ML) – Very stiff, moist, tan, low plastic
11.2 – 12	Silty SAND (SM) – Loose, moist, tan, medium-grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB01-005

Boring No. CA503-SB01

Date/Time Collected: 1-29-13 @ 1250

Personnel: JA/RH

Sample Method/Depth: Direct Push w/Macro core/5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 X 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace ND

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Silty SAND (Fill)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS03, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB01-010

Boring No. CA503-SB01

Date/Time Collected: 1-29-13 @ 1304

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ macro core / 10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 X 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
① ~~2~~ X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5'-6.4'	Silty SAND (SM) Fill
6.4'-10.0'	SILT (ML), Native, white caliche mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB01-020

Boring No. CA503-SB01

Date/Time Collected: 1-29-13 @ 1331

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core / 20

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 x 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
① ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SILT (ML) with trace Caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB01-024

Boring No. CA503-SB01

Date/Time Collected: 1-29-13 @ 1340

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core / 20.0'-24.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 X 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 20'-24'

Soil Description: SILT (ML) becomes calcareous @ 23.2 ft bgs

GENERAL COMMENTS

BTEX collected 22.7'-23.2'

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS03, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB02-005

Boring No. CA503-SB02

Date/Time Collected: 1-29-13@1405

Personnel: JA/RH

Sample Method/Depth: Direct Push w/macro core/5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~3 x 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Silty SAND (SM) Fill

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS03, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB02-010

Boring No. CA503-SB02

Date/Time Collected: 1-29-13 @ 1415

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ macro core / 10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 x 40 ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) 2 x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5'-6'	Silty SAND (SM) Fill
6'-10'	SILT (ML) Native, caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB02-015

Boring No. CA503-SB02

Date/Time Collected: 1-29-13 @ 1430

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ macro core / 15'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 x 40 ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~ e
(1) ~~2~~ x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~ e

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) with caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS03, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB02-020

Boring No. CA503-SB02

Date/Time Collected: 1-29-13 @ 1448

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core / 15'-20'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 x 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2 x 8oz GLASS~~	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring

Headspace ND

SOIL DESCRIPTION

Depth: 15'-20' Soil Description: Sandy SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS03, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB02-025

Boring No. CA503-SB02

Date/Time Collected: 1-29-13 @ 1520

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ macro core/25'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(9) ~~3~~ x 40ml VOA	(6) ~~2~~-water, (3) ~~1~~-MeOH 4°	BTEX, naphthalene (8260B)
(6) ~~2~~ x 40ml VOA	(6) ~~2~~-MeOH 4°	TPH-GRO (8015C)
2 x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A/7471B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ND

SOIL DESCRIPTION

Depth: 20'-25' Soil Description: Sandy SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB03-005

Boring No. CA503-SB03

Date/Time Collected: 1-29-13 @ 1010

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core/5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 X 40 ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2 X 8 oz GLASS~~	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Sandy SILT (ML) with some gravel (Fill)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS03, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB03-010

Boring No. CA503-SB03

Date/Time Collected: 1-29-13 @ 1019

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ macro core / 10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 X 40 ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background: ND

Breathing zone:

Boring:

Headspace: ND

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: Sandy SILT (ML) fill to 9.0 ft, (Native @ 9')

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB03-015

Boring No. CA503-SB03

Date/Time Collected: 1-29-13 @ 1030

Personnel: JA/RH

Sample Method/Depth: Direct Push w/macro core / 15'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA503-SB503-015 @ false time 0730

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(6) 3 x 40 ml VOA	(4) 2-water, (2) 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 x 40 ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
2 x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring:

Headspace: ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) with some sand and Caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS03, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB03-020

Boring No. CA503-SB03

Date/Time Collected: 1-29-13 @ ~~1048~~ 1053

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ macro core / 20'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 x 40 ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB03-023

Boring No. CA503-SB03

Date/Time Collected: 1-29-13 @ 1110

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ macro core / 23'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 X 40 ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	
Headspace	ND

SOIL DESCRIPTION

Depth: 20'-23' Soil Description: SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS03, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB04-005

Boring No. CA503-SB04

Date/Time Collected: 1-29-13 @ 0822

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core / 0-5.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 x 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7421B)~~

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0-4'	Sandy SILT (ML) - Fill
4'-5'	~~Native~~ SILT (ML) - Fill with caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-CS03, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB04-010

Boring No. CA503-SB04

Date/Time Collected: 1-29-13 @ 0834

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core / 10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 X 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5-9.3'	SILT (ML) fill
9.3'-10.0'	Caliche (native)

GENERAL COMMENTS

BTEX collected @ 8.5'

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB04-015

Boring No. CA503-SB04

Date/Time Collected: 1-29-13 @ 0855

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core/15'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 X 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML), Becomes sandy @ 13', Some caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB04-020

Boring No. CA503-SB04

Date/Time Collected: 1-29-13 @ 0908

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ macro core / 20'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 x 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ND

SOIL DESCRIPTION

Depth: 15-20'

Soil Description: Sandy SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB04-025

Boring No. CA503-SB04

Date/Time Collected: 1-29-13 @ 0933

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core / 25'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(9) ~~3~~ x 40 ml VOA	(6) 2-water (3) 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 x 40 ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
~~2~~ x 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		Lead (6020A / 7471B)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: Sandy SILT (ML) with caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB05-005

Boring No. SB05

Date/Time Collected: 1-30-13 @ 0809

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core / 0-5 ft bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 0-5 ft bgs

Soil Description: Sandy SILT (ML) - Fill w/ concrete debris

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB05-010

Boring No. SB05

Date/Time Collected: 1-30-13 @ ~~0823~~ 0930

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA503-SB505-010 @ Close time 0730

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ X 40 ml VOA	4 ~~2~~-water, ~~2~~-MeOH 4°	BTEX + naphthalene (8260B)
2 ~~2~~ X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: Sandy SILT (ML) - gravel and concrete 6'-7', Native Surface @ 8.5 ft bgs

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB05-015

Boring No. SB05

Date/Time Collected: 1-30-13 @ 0830

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core 10'-15'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA503-SB505-015 @ false time 0700

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 ~~2~~ X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: Clayey SILT (ML) with white caliche mottling, trace caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB05-020

Boring No. SB05

Date/Time Collected: 1-30-13 @ 0850

Personnel: R Herold, J Allen

Sample Method/Depth: Direct Push w/ Macro Core / 15'-20'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: ~~Clayey Silt (ML)~~ Silty SILT (ML) with some very fine sand and caliche mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB05-025

Boring No. SB05

Date/Time Collected: ~~PB~~ 1-30-13 @ 0920

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core/20'-25'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 20'-25' Soil Description: SILT (ML) - calcareous with some fine sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB06-005

Boring No. SB06

Date/Time Collected: 1-30-13 @ 1015

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core/0'-5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) ~~2~~ X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Sandy SILT (ML) with fine sand and concrete/asphalt debris, FILL

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB06-010

Boring No. SB06

Date/Time Collected: 1-30-13 @ 1025

Personnel: R. Herold, J. Allen

Sample Method/Depth: Direct Push w/ Macro Core/5'-10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT - Sandy SILT (ML) with caliche mottling and fine caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB06-015

Boring No. SB06

Date/Time Collected: 1-30-13 @ 1036

Personnel: J Allen, R Herold

Sample Method/Depth: Direct Push w/ Macro Core / 10'-15'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: Sandy Silt (ML) with white caliche mottling, fine sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB06-0.20

Boring No. SB06

Date/Time Collected: 1-30-13 @ 1050

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core / 15'-20'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15'-20' Soil Description: Silty SAND (SM) - clean (no caliche)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB06-025

Boring No. CA503-SB06

Date/Time Collected: 1-30-13 @ 1110

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core/25'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 X 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ X 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
20'-21'	Silty SAND (SM)
21'-25'	SILT (ML) with caliche mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB07-005

Boring No. CA503-SB07

Date/Time Collected: 1-30-13 @ 1118

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core/5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 X 40 ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace ND

SOIL DESCRIPTION

Depth: 0'-5'

Soil Description: Sandy SILT (ML) fill

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB07-010

Boring No. CA503-SB07

Date/Time Collected: 1-30-13 @ 1126

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ macro core / 5.0'-10.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2 x 40ml VOA~~	~~2-MeOH 4°~~	~~TPH-GRO (8015C)~~
(1) ~~2~~ x 8oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		~~Lead (6020A/7471B)~~

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ND

SOIL DESCRIPTION

Depth:	Soil Description:
5'-8'	Sandy SILT (ML) fill
8'-10'	native SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. C503-SB07-015

Boring No. SB07

Date/Time Collected: 1-30-13 @ 1133

Personnel: JAllen, RHerold

Sample Method/Depth: Direct Push w/ Macro Core 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) - calcareous with fine to coarse caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB07-020

Boring No. SB07

Date/Time Collected: 1-30-13 @ 1155

Personnel: J Allen, R Herold

Sample Method/Depth: Direct Push w/ Macro Core 15'-20'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX+naphthalene (8260B)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SILT (ML) - calcareous with some sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C503, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA503-SB07-025

Boring No. SB07

Date/Time Collected: 1-30-13 @ ~~1355~~ 1220

Personnel: J Allen, R Herold

Sample Method/Depth: Direct Push w/ Macro Core 20-25'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: SILT (ML) - Calcareous with some fine sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-005

Boring No. SB01

Date/Time Collected: 2-5-13 @ 0928

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (0-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Silty SAND (SM) with caliche 2'-3' bgs (FILL)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-010

Boring No. CA504-SB01

Date/Time Collected: 2-5-13 @ 0942

Personnel: J. Allen, Rotterold

Sample Method/Depth: Direct Push w/ Macro Core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) - calcareous with high caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-015

Boring No. SB01

Date/Time Collected: 2-5-13 @ 0956

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (6'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 10'-15' Soil Description: SILT to Sandy SILT (ML) - calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-020

Boring No. SB01

Date/Time Collected: 2-5-13 @ 1007

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (15'-20')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15'-20' Soil Description: Sandy SILT (ML) with caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-023

Boring No. SB01

Date/Time Collected: 2-5-13 @ 1015

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (20'-23')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	85.6 ppm
Headspace	167.6 ppm

SOIL DESCRIPTION

Depth: 20-23 Soil Description: Sandy SILT (ML) with moderate sweet chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-025

Boring No. SB01

Date/Time Collected: 2-5-13 @ 1029

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (23'-25')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA504-SB501-025 @ false time 0700

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 151.0 ppm

Headspace: 167.6 ppm

SOIL DESCRIPTION

Depth: 23'-25' Soil Description: Silty SAND (SM) with some calcareous silt, moderate sweet chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-030

Boring No. SB01

Date/Time Collected: 2-5-13 @ 1100

Personnel: R. Herold, J. Allen

Sample Method/Depth: Direct Push w/ Macro Core (25'-30')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	124.0 ppm
Headspace	187.6 ppm

SOIL DESCRIPTION

Depth: 25'-30'

Soil Description: 25'-26.5' Silty SAND (SM) - calcareous
26.5'-30.0' SAND (SP) with sweet Chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-035

Boring No. SB01

Date/Time Collected: 2-5-13 @1122

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (30'-35')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: NP

Breathing zone: ↓

Boring: 191 ppm

Headspace: 295 ppm

SOIL DESCRIPTION

Depth: 30'-35'

Soil Description: SAND (SP) with trace caliche nodules and moderate sweet chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-040

Boring No. SB01

Date/Time Collected: 2-5-12 @1153

Personnel: R. Herold, J. Allen

Sample Method/Depth: Direct Push w/ Macro Core (35-40')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	238 ppm
Headspace	252 ppm

SOIL DESCRIPTION

Depth: 35-40'

Soil Description: SAND (SP) with trace fine caliche nodules and a moderate sweet chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-045

Boring No. SB01

Date/Time Collected: 2-5-13 @ 1302

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (40'-45')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA504-SB501-045 @ false time 0730

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ X 40 ml VOA	4 ~~2~~-water 2X-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	208 ppm
Headspace	355 ppm

SOIL DESCRIPTION

Depth: 40-45 Soil Description: SAND (SP) with trace fine caliche nodules and a moderate sweet chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-050

Boring No. SB01

Date/Time Collected: 2-5-13 @ 1359

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (45'-50')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 297 ppm

Headspace: 310 ppm

SOIL DESCRIPTION

Depth: 45'-50' Soil Description: SAND(SP) with trace fine caliche nodules and a moderate ~~hydro~~ chemical odor - sweet.

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. QA504-SB01-055

Boring No. SB01

Date/Time Collected: 2-5-13 @ 1441

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (50'-55')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	261 ppm
Headspace	332 ppm

SOIL DESCRIPTION

Depth: 50'-55'

Soil Description: 50'-52' SAND (SP) with calcareous silt and caliche nodules + High Hydrocarbon odor
52'-55' SAND (SP) - clean sand with a high hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-060

Boring No. SB01

Date/Time Collected: 2-5-13 @ 1500

Personnel: J. Allen, R. Herald

Sample Method/Depth: Direct Push w/ Macro Core (55'-60')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 337 ppm

Headspace:

SOIL DESCRIPTION

Depth: 55'-60'

Soil Description: SAND (SP) - Strong hydrocarbon odor, coarse caliche nodules 58'-59'

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-065

Boring No. SB01

Date/Time Collected: 2-5-13 @ 1538

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core/60-65

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA504-SB501-065 @ false time 0800

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ X 40 ml VOA	4 ~~2~~-water ~~2~~ X - MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring 304 ppm

Headspace

SOIL DESCRIPTION

Depth: 60'-65' Soil Description: SAND (SP) with Strong Hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-070

Boring No. SB01

Date/Time Collected: 2-5-13 @ 1600

Personnel: J. Allen, R. Herald

Sample Method/Depth: Direct Push w/ Macro Core (65'-70')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	229 ppm
Headspace	289 ppm

SOIL DESCRIPTION

Depth: 65'-70'

Soil Description: SAND (SP) with strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-075

Boring No. SB01

Date/Time Collected: 2-5-13 @ 1616

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (70-75')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 287 ppm

Headspace: 220 ppm

SOIL DESCRIPTION

Depth: 70'-75'

Soil Description: SAND (SP) with a high hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-080

Boring No. SB01

Date/Time Collected: 2-6-13 @ 0912

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (77.5-80')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	132 ppm
Headspace	173 ppm

SOIL DESCRIPTION

Depth: 77.5'-80.0'

Soil Description: SAND (SP) - very fine grain with a strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-085

Boring No. SB01

Date/Time Collected: 2-6-13 @ 1030

Personnel: R Herold, J Allen

Sample Method/Depth: Direct Push w/ Macro Core 80-85'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA504-SB501-085 @ Pick time 0700

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40 ml VOA	4 ~~2~~-water, ~~X~~ 4°-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS		TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	120 ppm
Headspace	187 ppm

SOIL DESCRIPTION

Depth: 80-85'

Soil Description: SAND (SP) - very fine with trace caliche nodules, high hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-090

Boring No. SB01

Date/Time Collected: 2-6-13 @ 1207

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (85-90')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	141 ppm
Headspace	231 ppm

SOIL DESCRIPTION

Depth: 85'-90'

Soil Description: SAND (SP) - very fine w/a high hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-095

Boring No. SB01

Date/Time Collected: 2-6-13 @ 1400

Personnel: R. Herold, J Allen

Sample Method/Depth: Direct Push w/ Macro Core (90'-95')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	174 ppm
Headspace	208 ppm

SOIL DESCRIPTION

Depth: 90'-95'

Soil Description: SAND (SP) - very fine with strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-100

Boring No. SB01

Date/Time Collected: 2-6-13 @ 1556

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core/95-100

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 117 ppm

Headspace:

SOIL DESCRIPTION

Depth: 95-100

Soil Description: SAND (SP) - very fine grain, moderate to strong hydrocarbon odor.

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-105

Boring No. SB01

Date/Time Collected: 2-6-13 @ ~~1556~~ 1640

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (100'-105')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	117 ppm
Headspace	182 ppm

SOIL DESCRIPTION

Depth: 100'-105' Soil Description: SAND (SP) strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-110

Boring No. SB01

Date/Time Collected: 2-7-13 @ 0848

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core 105'-110'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	150 ppm
Headspace	270 ppm

SOIL DESCRIPTION

Depth: 105'-110' Soil Description: SAND (SP) w/ Strong Hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-115

Boring No. SB01

Date/Time Collected: 2-7-13 @ 1008

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core 110'-115'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 196 ppm

Headspace: 329 ppm

SOIL DESCRIPTION

Depth: 110--115

Soil Description: SAND (SP) w/fine caliche nodules and strong hydro carbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-120

Boring No. SB01

Date/Time Collected: 2-7-13 @ 1104

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (115-120)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	189 ppm
Headspace	305 ppm

SOIL DESCRIPTION

Depth: 115'-120'

Soil Description: SAND (SP) with some coarse Caliche nodules and a strong Hydrocarbon Odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB01-125

Boring No. SB01

Date/Time Collected: 2-7-13 @ 1207

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (120'-125')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	184 ppm
Headspace	338 ppm

SOIL DESCRIPTION

Depth: 120'-125' Soil Description: SAND(SP) w/trace coarse caliche nodules and a strong hydro carbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-005

Boring No. SB02

Date/Time Collected: 2-7-13 @1348

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (0-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5

Soil Description: Sandy SILT (ML) and calcareous SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-010

Boring No. SB02

Date/Time Collected: 2-7-13 @ 1357

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) - Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-015

Boring No. SB02

Date/Time Collected: 2-7-13 @1407

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) - Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-020

Boring No. SB02

Date/Time Collected: 2-7-13 @ 1435

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (15-20)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: Sandy SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-025

Boring No. SB02

Date/Time Collected: 2-7-13 @ 1538

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core / 20.0'-25.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA504-SB502-025 @ false time 0700

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(6) ~~3~~ X 40 ml VOA	(4) 1-water 2-HCl - MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring 242 ppm

Headspace 197 ppm

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: Silty SAND (SM) w/calcareous silt mottling, hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-030

Boring No. SB02

Date/Time Collected: 2-7-13 @ 1557

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (25'-30')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	193 ppm
Headspace	154 ppm

SOIL DESCRIPTION

Depth: 25'-30'

Soil Description: SAND(SP) w/ Strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-035

Boring No. SB02

Date/Time Collected: 2-7-13 @ 1609

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core 30'-35'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 271 ppm

Headspace: 180 ppm

SOIL DESCRIPTION

Depth: 30'-35'

Soil Description: SAND (SP) w/ strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-040

Boring No. SB02

Date/Time Collected: 2-7-13 @ 1640

Personnel: JA/RH

Sample Method/Depth: ~~Direct Push~~ w/ MAcro core (35'-40')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	267 ppm
Headspace	247 ppm

SOIL DESCRIPTION

Depth: 35'-40'

Soil Description: SAND (SP) w/ Strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-045

Boring No. SB02

Date/Time Collected: 2-8-13 @ 0630

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (40'-45')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring

Headspace

SOIL DESCRIPTION

Depth: 40'-45'

Soil Description: SAND (SP) - with fine caliche nodules and strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-050

Boring No. SB02

Date/Time Collected: 2-8-13@0852

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (45-50)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 517 ppm

Headspace: 367 ppm

SOIL DESCRIPTION

Depth: 45'-50'

Soil Description: SAND (SP) - w/trace caliche nodules and ~~Ver~~ strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-055

Boring No. SB02

Date/Time Collected: 2-8-13 @ 0921

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (50-55)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	376 ppm
Headspace	266 ppm

SOIL DESCRIPTION

Depth: 50'-55'

Soil Description: SAND (SP) - moist, fine, trace caliche, strong hydrocarbon odor (caliche nodules stained grey from contamination)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-060

Boring No. SB02

Date/Time Collected: 2-8-13 @ 1007

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (55'-60')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	295 ppm
Headspace	277 ppm

SOIL DESCRIPTION

Depth: 55'-60' Soil Description: SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-0065

Boring No. SB02

Date/Time Collected: 2-8-13 @ 1033

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (60-65')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 267 ppm

Headspace: 289 ppm

SOIL DESCRIPTION

Depth: 60'-65'

Soil Description: SAND (SP) w/some caliche nodules and a high hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-070

Boring No. SB02

Date/Time Collected: 2-8-13 @ 1055

Personnel: RH/JA

Sample Method/Depth: Direct Push w/ Macro Core (65-70)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 311

Headspace:

SOIL DESCRIPTION

Depth: 65'-70'

Soil Description: SAND (SP) - With trace fine caliche nodules & strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-075

Boring No. SB02

Date/Time Collected: 2-8-13 @ 1210

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core 70'-75'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ~~225~~ ppm

Headspace: ~~333~~ ppm

SOIL DESCRIPTION

Depth: 70-75

Soil Description: SAND w/ a strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-080

Boring No. SB02

Date/Time Collected: 2-8-13 @ 1235

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (75'-80')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA504-SB502-080 @ false time 0700

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(6) ~~3~~ X 40 ml VOA	(4) ~~2~~ X - MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	2 X - water 4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 196 ppm

Headspace:

SOIL DESCRIPTION

Depth: 75-80

Soil Description: SAND (SP) w/ strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB02-085

Boring No. SB02

Date/Time Collected: 2-17-13 / 1320

Personnel: JA, RH

Sample Method/Depth: Direct Push w/ Macro Core / 80.0-85.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	141.2
Headspace	195.0

SOIL DESCRIPTION

Depth: 80'-85'

Soil Description: SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB03-005 0937

Boring No. SB03

Date/Time Collected: 2-12-13 @ 0937

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core 0'-5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 0-5 Soil Description: Silty SAND (SM) Fill

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB03-010

Boring No. SB03

Date/Time Collected: 2-12-13 @ 0948

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: Silty SAND (SM) Fill

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB03-015

Boring No. SB03

Date/Time Collected: 2-12-13 @ 0957

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: Silty SAND (Fill)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB03-020

Boring No. SB03

Date/Time Collected: 2-12-13 @ 1018

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (15-20')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	2.6 ppm
Headspace	11.6 ppm

SOIL DESCRIPTION

Depth: 15-20'

Soil Description: 15'-16.1' Silty SAND (SM) - Fill
16.1'-20.0' SILT (ML) calcareous, faint chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C SOU, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB03-025

Boring No. SB03

Date/Time Collected: 2-12-13 @ 1035

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core 20'-25'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. ~~CA504-SB503-025~~ @ false time 0630

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(6) ~~8~~ x 40ml VOA	(4) 2-water ~~2~~ X- MeOH 4°	BTEX + naphthalene (8260B)
(2) x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	89 ppm
Headspace	163 ppm

SOIL DESCRIPTION

Depth: 20'-25' Soil Description: SILT (ML) Calcareous with a moderate chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB03-030

Boring No. SB03

Date/Time Collected: 2-12-13 @ 1054

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (25-30)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
① 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background: ND

Breathing zone:

Boring: 180 ppm

Headspace: 163 ppm

SOIL DESCRIPTION

Depth: 25-30

Soil Description: SILT (ML) with sand, strong sweet chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB03-035

Boring No. SB03

Date/Time Collected: 2-12-13 @ 1112

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MAcro core 30'-35'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	111 ppm
Headspace	135 ppm

SOIL DESCRIPTION

Depth: 30'-35'

Soil Description: SAND (SD) w/ strong, sweet chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB03-040

Boring No. SB03

Date/Time Collected: 2-12-13 @ 1137

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MAcro core/35'-40'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: (YES) NO

MS/MSD Requested: YES (NO)

Split Sample NO. —

Duplicate Sample NO. CA504-SB03-040 @ following TOC

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(6) ~~2~~ x 40ml VOA	(4) ~~2~~-water (2) ~~X~~ - MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	159 ppm
Headspace	241 ppm

SOIL DESCRIPTION

Depth: 35'-40'

Soil Description: SAND (SP) w/ chemical to hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB03-045

Boring No. SB03

Date/Time Collected: 2-12-13 @ 1148

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MAcro core (35'-40')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 259 ppm

Headspace: 153 ppm

SOIL DESCRIPTION

Depth: 35'-40' Soil Description: SAND (SP) w/ moderate hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB03-050

Boring No. SB03

Date/Time Collected: 2-12-13 @ 1324

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core (45'-50')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 163 ppm

Headspace:

SOIL DESCRIPTION

Depth: 45'-50' Soil Description: SAND (SP) - strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C SOIL, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB03-052

Boring No. SB03

Date/Time Collected: 2-12-13 @ 1334

Personnel: J Allen, R Herold

Sample Method/Depth: Direct Push w/ MAcro core (50'-52')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 161 ppm

Headspace:

SOIL DESCRIPTION

Depth: 50'-52'

Soil Description: SAND(SP) - w/ strong hydrocarbon Odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB04-005

Boring No. SB04

Date/Time Collected: 2-10-13 @ 1247

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (0-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) ~~2~~ X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description:

0-0.8' Asphalt w/ Gravel
0.8'-2.0' Silty CLAY w/ GRAVEL (CL-GP) } (FILL)
2.0'-4.5' CLAY (CL)
4.5'-5.0' SILT (ML) - calcareous (Native)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB04-010

Boring No. SB04

Date/Time Collected: 2-10-13 @ 1301

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) - Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB04-015

Boring No. SB04

Date/Time Collected: 2-10-13 @ 1311

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 2 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) - Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB04-020

Boring No. SB04

Date/Time Collected: 2-10-13 @ 1330

Personnel: JA, RH

Sample Method/Depth: Direct Push w/ Macro Core (15'-20')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: 15'-16.4' SILT (ML) - calcareous
16.4'-20' ~~Sandy Se~~ Silty SAND (SM) w/ caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB04-025

Boring No. SB04

Date/Time Collected: 2-10-13 / 1345

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core 20'-25'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace ~~7.8~~ ppm

SOIL DESCRIPTION

Depth: 20'-25' Soil Description: Silty SAND (SM) with caliche mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB04-030

Boring No. SB04

Date/Time Collected: 2-10-13 @ 1400

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (25'-30')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA504-SB504-030

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(6) ~~3~~ X 40 ml VOA	(4) ~~1~~-water (2) ~~1~~-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: NP

Breathing zone: ↓

Boring: 19 ppm

Headspace: 50 ppm

SOIL DESCRIPTION

Depth: 25'-30'

Soil Description: (SM) Silty SAND with calcareous silt, moderate sweet chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB04-035

Boring No. SB04

Date/Time Collected: 2-10-13 @ 1425

Personnel: RH/JA

Sample Method/Depth: Direct Push w/ Macro Core (30'-35')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 48.0 ppm

Headspace: 109 ppm

SOIL DESCRIPTION

Depth: 30'-35'

Soil Description: SAND (SP) w/ moderate sweet chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB04-040

Boring No. SB04

Date/Time Collected: 2-10-13 @ 1444

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (35'-40')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring 72 ppm

Headspace 167 ppm

SOIL DESCRIPTION

Depth: 35'-40' Soil Description: SAND(SP) - w/moderate sweet Chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB04-045

Boring No. SB04

Date/Time Collected: 2-10-13 @ 1503

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro Core (40'-45')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 92 ppm

Headspace: 192 ppm

SOIL DESCRIPTION

Depth: 40'-45' Soil Description: SAND (SP) - loose, dry, moderate hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB04-050

Boring No. SB04

Date/Time Collected: 2-10-13 @ 1534

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core/45-49.8

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring

Headspace

SOIL DESCRIPTION

Depth: 45'-49.8' Soil Description: SAND (SP) w/strong hydrocarbon odor

GENERAL COMMENTS Refusal @ 49.8 ft bgs

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB05-005

Boring No. SB05

Date/Time Collected: 2-13-13 @ 1351

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (0-5')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Sandy SILT (ML), calcareous from 2.8'-3.8'

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB05-010

Boring No. SB05

Date/Time Collected: 2-13-13 @ 1403

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (5'-10')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace ND

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: Calc SILT (ML), calcareous with some sand.

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB05-015

Boring No. SB05

Date/Time Collected: 2-13-13 @ 1417

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ MAcro core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: Sandy SILT (ML) - calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB05-020

Boring No. SB05

Date/Time Collected: 2-13-13 @ 1428

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core (15-20')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring

Headspace ND

SOIL DESCRIPTION

Depth: 15'-20' Soil Description: Sandy SILT (ML) - calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB05-025

Boring No. SB05

Date/Time Collected: 2-13-13 @ 1438

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core 20'-25'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: Sandy SILT (ML) - Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB06-005

Boring No. SB06

Date/Time Collected: 2-13-13 @ 1454

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core/0-50'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0-5'	Silty SAND (SM) 0-2' (FILL)
	SILT (ML) 2-5' (FILL)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C50~~4~~, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB06-010

Boring No. SB06

Date/Time Collected: 2-13-13 @1504

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MAcro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) Fill 5'-6.3'
SILT (ML) Calcareous, Native 6.3'-10'

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB06-015

Boring No. SB06

Date/Time Collected: 2-13-13 @ 1522

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core/10.0'-15.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: (YES) NO

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO. CA504-SB506-05 @ falsetime 0700

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(6) 3 x 40ml VOA	(4) 2-water (2) x-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 10'-15' Soil Description: Sandy SILT (ML) Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB06-020

Boring No. SB06

Date/Time Collected: 2-13-13 @ 1536

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core (15'-20')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: Sandy SILT (ML) calcareous with brownish red sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C SOG, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB06-025

Boring No. SB06

Date/Time Collected: 2-13-13 @ 1545

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core (20'-25')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 20'-25' Soil Description: Sandy SILT (ML) Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB07-005

Boring No. SB07

Date/Time Collected: 2-12-13 @ 0815

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (0-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace ND

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Sandy SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB07-010

Boring No. SB07

Date/Time Collected: 2-12-13@0824

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (5-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML-CL) Fill

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB07-015

Boring No. SB07

Date/Time Collected: 2-12-13 / 0834

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) ~~2~~ X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML-CL) Fill 10'-11.5'
SILT (ML) Calcareous, Native 11.5'-15.0'

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB07-020

Boring No. SB07

Date/Time Collected: 2-12-13 @ 0850

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (15-20)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SILT (ML) - Calcareous with trace very fine sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB07-025

Boring No. SB07

Date/Time Collected: 2-12-13 @ 0903

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (20-25)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace ND

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: Sandy SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB08-005

Boring No. SB08

Date/Time Collected: 2-10-13 @ 1650

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (0'-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0'-5'

Soil Description: Silty SAND (SM), fill

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB08-010

Boring No. SB08

Date/Time Collected: 2-10-13 @ 1659

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core/5'-10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(9) 5 X 40 ml VOA	(6) 2-water, 2-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SAND (SP) with moderate 'musty' odor (FILL)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB08-015

Boring No. SB08

Date/Time Collected: 2-10-13 @ 1710

Personnel: RH/JA

Sample Method/Depth: Direct Push w/ Macro Core (10-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ↓

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: (FILL) SAND (SP), concrete 14'-15'

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB08-020

Boring No. SB08

Date/Time Collected: 2-10-13 @ 1722

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (15'-20')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 15-20'

Soil Description: SILT (ML) - calcareous with brownish-red silty sand mottling, Native

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB08-025

Boring No. SB08

Date/Time Collected: 2-10-13 @ 1736

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (20'-25')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 20'-25' Soil Description: 20'-23' SILT (ML) Calcareous w/ silty sand mottling

23'-25' SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB09-005

Boring No. SB09

Date/Time Collected: 2-11-13 @ 1452

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (0-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: ~~Sandy SC~~ Silty SAND (SM) - FILL

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB09-010

Boring No. SB09

Date/Time Collected: 2-11-13 @ 1500

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(9) ~~3~~ X 40 ml VOA	(6) ~~2~~-water (2) ~~1~~-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ND

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: Silty SAND (SM) Fill

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB09-015

Boring No. SB09

Date/Time Collected: 2-11-13 @ 1524

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core 10'-15'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone:

Boring:

Headspace: ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: 10'-11' Silty SAND (SM) Fill

11'-15' SILT (ML) - Calcareous, Native

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB09-020

Boring No. SB09

Date/Time Collected: 2-11-13 @ 1540

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (15'-20')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: Sandy SILT (ML) Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB09-025

Boring No. SB09

Date/Time Collected: 2-11-13 @ 1600

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (20-25)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC's

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 20'-25' Soil Description: Sandy SILT (ML) - Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB10-005

Boring No. SB10

Date/Time Collected: 2-11-13 @ 1015

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core 0-5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: 3.2 ppm

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Silty SAND (SM) Fill

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB10-010

Boring No. SB10

Date/Time Collected: 2-11-13 @ 1030

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(9) ~~3~~ X 40 ml VOA	(6) ~~2~~-water (3) ~~X~~-MeOH 4°	BTEX, naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace 2.4ppm

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: Silty SAND (SM) Fill

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB10-015

Boring No. SB10

Date/Time Collected: 2-11-13 @ 1044

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: 1.7 ppm

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: Silty SAND (SM) FILL

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB10-020

Boring No. SB10

Date/Time Collected: 2-11-13 @ 1058

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro Core (15'-20')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: 7.1 ppm

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description:
15'-16' Silty SAND (SM) - Fill
16'-20' SILT (ML) - Calcareous, Native

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB10-025

Boring No. SB10

Date/Time Collected: 2-11-13 / 1118

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (20'-25')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: VP

Breathing zone: ↓

Boring: 65.7 ppm

Headspace: 76.0 ppm

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: Sandy SILT (ML), calcareous with a 'sweet' chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB10-030

Boring No. SB10

Date/Time Collected: 2-11-13 @ 1141

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (25'-30')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) R X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	145 ppm
Headspace	141 ppm

SOIL DESCRIPTION

Depth: 25'-30' Soil Description: Silty SAND (SM) w/ calcareous silt and a strong sweet chemical to hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB10-035

Boring No. SB10

Date/Time Collected: 2-11-13 @ 1201

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (30'-35')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 68 ppm

Headspace: 76 ppm

SOIL DESCRIPTION

Depth: 30'-35'

Soil Description: 30'-32.8' Silty SAND (SM) w/ moderate hydrocarbon odor

32.8'-35.0' SAND (SP) w/ slight hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. OA504-SB10-040

Boring No. SB10

Date/Time Collected: 2-11-13 @ 1306

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (35-40)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 40 ppm

Headspace: 44 ppm

SOIL DESCRIPTION

Depth: 35'-40'

Soil Description: SAND (SP) w/ slight hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB10-045

Boring No. SB10

Date/Time Collected: 2-11-13 @ 1321

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (40'-45')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 68 ppm

Headspace: 65 ppm

SOIL DESCRIPTION

Depth: 40'-45'

Soil Description: SAND (SP) with trace silt and trace hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB10-050

Boring No. SB10

Date/Time Collected: 2-11-13 @ 1351

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (45'-50')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 162 ppm

Headspace: 89 ppm

SOIL DESCRIPTION

Depth: 45'-50'

Soil Description: SAND (SP) with Calcareous SILT, moderate Hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB10-052

Boring No. SB10

Date/Time Collected: 2-11-13 @ 1421

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (50-52)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
(1) 1 X 8 oz. Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 107 ppm

Headspace: 79 ppm

SOIL DESCRIPTION

Depth: 50'-52'

Soil Description: Silty SAND w/calcareous silt, moderate hydrocarbon odor

GENERAL COMMENTS

Refusal @ 52 ft bgs

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB11-005

Boring No. SB11

Date/Time Collected: 2-8-13@1415

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (0-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Silty SAND (SM) and Clayey SILT (ML) (FILL)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB11-010

Boring No. SB11

Date/Time Collected: 2-8-13 @ 1427

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core/5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(6) ~~3~~ X 40 ml VOA	(4) ~~2~~-water (3) ~~1~~-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5-10'

Soil Description: Sandy SILT (ML) with soft caliche mottling (white) - Native @ 5.5 ft bgs

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB11-015

Boring No. SB11

Date/Time Collected: 2-8-13 @ 1500

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) ~~8~~ X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB11-020

Boring No. SB11

Date/Time Collected: 2-8-13 @ 1517

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (15'-20')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SILT (ML) Calcareous with reddish-brown silty sand mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB11-025

Boring No. SB11

Date/Time Collected: 2-8-13 @ 1531

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core 20'-25'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(9) ~~3~~ x 40 ml VOA	(6) ~~2~~-water ~~3~~ 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) ~~2~~ x 8 oz. Glass	40	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 20'-25' Soil Description: SILT to Sandy SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB12-015

Boring No. SB12

Date/Time Collected: 2-14-13 @ 1556

Personnel: JA, RH

Sample Method/Depth: Direct Push w/ Macro core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: Silty SAND (SM) w/ calcareous silt

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB12-020

Boring No. SB12

Date/Time Collected: 2-14-13 @ 1605

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core (15-20')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
① 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		site related SVOC

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ND

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: Silty SAND (SM) w/calcareous silt and caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB12-025

Boring No. SB12

Date/Time Collected: 2-14-13 @ 1616

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core (20'-25')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	
Headspace	ND

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: Silty SAND (SM) with calcareous Silt, becomes SAND (SP) @ 24.5'

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB12-030

Boring No. SB12

Date/Time Collected: 2-14-13 @ 1625

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro Core (25'-30')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 25'-30' Soil Description: SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB12-035

Boring No. SB12

Date/Time Collected: 2-14-13 @ 1638

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core 30'-35'

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Split Sample NO.

Sample QC Duplicate: YES NO (circled)

Duplicate Sample NO.

MS/MSD Requested: YES NO (circled)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background: ND

Breathing zone:

Boring:

Headspace: ND

SOIL DESCRIPTION

Depth: 30-35 Soil Description: SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB12-040

Boring No. SB12

Date/Time Collected: 2-14-13 @ 1650

Personnel: JA/RH

Sample Method/Depth: ~~Direct Push~~ w/ Macro core (35'-40')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 35-40 Soil Description: SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C SOU, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB13-015

Boring No. SB13

Date/Time Collected: 2-14-13 @ 1014

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core (10'-15')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: Silty SAND (SM) with white Caliche mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504 - SB13 - 020

Boring No. SB13

Date/Time Collected: 2-14-13 @ 1025

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ MAcro core / ~~10'~~ 15.0'-20.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA504-SB513-020

MS/MSD Requested: YES (NO)

@ false time 0700

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(6) ~~3~~ x 40ml VOA	(4) ~~2~~-water (2)x- MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: Silty SAND (SM) w/ calcareous silt and caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB13-025

Boring No. SB13

Date/Time Collected: 2-14-13 @ 1045

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core (20-25')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 20'-25'

Soil Description: Silty SAND (SM) w/calcareous silt and caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB13-030

Boring No. SB13

Date/Time Collected: 2-14-13 @ 1100

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ MAcro core (25'-30')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ND

Headspace: ND

SOIL DESCRIPTION

Depth: 25'-30'

Soil Description: SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB13-035

Boring No. SB13

Date/Time Collected: 2-14-13 @1111

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core (30'-35')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 30'-35' Soil Description: SAND (SP) with trace Silt and trace fine Caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB13-040

Boring No. SB13

Date/Time Collected: 2-14-13 @ 1125

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core (35'-40')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 35'-40' Soil Description: SAND (SP) w/ trace Silt and trace fine caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB14-005

Boring No. SB14

Date/Time Collected: 2-14-13 @ 1240

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core (10'-15')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	
Boring	
Headspace	

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: Silty SAND (SM) w/calcareous silt

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB14-020

Boring No. SB14

Date/Time Collected: 2-14-13 @ 1257

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (15'-20')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. ~~CA504-SB514-020~~

MS/MSD Requested: YES (NO)

@ false time 0730

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(6) 3 x 40ml VOA	(4) 2-water (2) 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 15'-20' Soil Description: Silty SAND (SM), silt is calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C SO4, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB14-025

Boring No. SB14

Date/Time Collected: 2-14-13 @ 1310

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ MAcro core (20'-25')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	
Headspace	

SOIL DESCRIPTION

Depth: 20'-25' Soil Description: Silty SAND (SM) with carbonate silt

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB14-030

Boring No. SB14

Date/Time Collected: 2-14-13 @ 1320

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core (25'-30')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	
Boring	36.0 ppm
Headspace	7.8 ppm

SOIL DESCRIPTION

Depth: 25'-30' Soil Description: SAND(SP) w/ trace sweet chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. C1504-SB14-035

Boring No. SB14

Date/Time Collected: 2-14-13 @ 1337

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ MAcro core (30-35)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	52 ppm
Headspace	69 ppm

SOIL DESCRIPTION

Depth: 30'-35' Soil Description: SAND(SP) w/some caliche and a moderate chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C SOA, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB14-040

Boring No. SB14

Date/Time Collected: 2-14-13 @ 1350

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MACro core (35'-40')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	45 ppm
Headspace	89 ppm

SOIL DESCRIPTION

Depth: 35'-40'

Soil Description: SAND (SP) w/ some caliche nodules and a moderate chemical odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB14-045

Boring No. SB14

Date/Time Collected: 2-14-13 @ 1420

Personnel: JA / RH

Sample Method/Depth: ~~Direct Push~~ w/ MAcro core (40'-45')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring 133 ppm

Headspace 133 ppm

SOIL DESCRIPTION

Depth: 40'-45' Soil Description: SAND (SP), strong hydrocarbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB14-047

Boring No. SB14

Date/Time Collected: 2-14-13 @ ~~1843~~ 1433

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core / 45.0'-47.0'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(12 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: 101 ppm

Headspace: 129 ppm

SOIL DESCRIPTION

Depth: 45'-47'

Soil Description: SAND (SP) with caliche nodules and strong hydro carbon odor

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB15-015

Boring No. SB15

Date/Time Collected: 2-14-13 @ 1508

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MAcro core / 10.0'-15.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) - calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C SOU, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. 12-14-13 @ 1518 CA504-SB15-020

Boring No. SB15

Date/Time Collected:

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (15'-20')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(9) 3 x 40ml VOA	(6) 2-water 3 x MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: Sandy SILT (ML) 15'-18.6'
SAND (SP) 18.6' - 20.0'

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB15-024

Boring No. SB15

Date/Time Collected: 2-14-13@ 1533

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro core 20'-24'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
(1) 1 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 20'-24' Soil Description: Sand (SP) to Silty SAND (SM)

GENERAL COMMENTS Refusal @ 24.0 ft bgs

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB16-015

Boring No. SB16

Date/Time Collected: 2-15-13 / 0908

Personnel: JC MC AR

Sample Method/Depth: Direct Push w/ Macro Core/10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX+naphthalene (8260B)
1 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 10-15 Soil Description: SILT (ML) - stiff, dry, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB16-020

Boring No. SB16

Date/Time Collected: 2-15-13 / 0924

Personnel: JC MC AR

Sample Method/Depth: Direct Push w/ Macro Core/15.0-20.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA504-SB516-020

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 1.8

SOIL DESCRIPTION

Depth: 15-20 Soil Description: SILT (ML) - stiff, dry, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB16-025

Boring No. SB16

Date/Time Collected: 2-15-13 / 0930

Personnel: JC MC AR

Sample Method/Depth: Direct Push w/ Macro Core / 20-25

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA504-SB516-025

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.3

SOIL DESCRIPTION

Depth: 20-25 Soil Description: Silty SAND (SP) - loose, dry, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB16-030

Boring No. SB16

Date/Time Collected: 2-15-13 / 0945

Personnel: JL MC AR

Sample Method/Depth: Direct Push w/ Macro Core / 25-30

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.8

SOIL DESCRIPTION

Depth: 25-30 Soil Description: Silty SAND (SP) - loose, dry, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. C4504-SB16-035

Boring No. SB16

Date/Time Collected: 2-15-13 / 1000

Personnel: JL MC AR

Sample Method/Depth: Direct Push w/ Macro Core/30-35

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	4.7

SOIL DESCRIPTION

Depth: 30-35 Soil Description: SAND (SP) - loose, dry, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C504, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA504-SB16-040

Boring No. SB16

Date/Time Collected: 2-15-13 / 1015

Personnel: SC MC AR

Sample Method/Depth: Direct Push w/ Macro Core / 35-40

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
1 X 8 oz GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOCs

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3.2

SOIL DESCRIPTION

Depth: 35-40

Soil Description: SAND (SP) - loose, dry, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Canon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-130 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/9/2013 1545 PERSONNEL: J. Conradi, K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 130'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background N/A

Breathing zone N/A

Boring 410 ~~281~~ KK ppm

Headspace N/A

SAMPLE DESCRIPTION

DEPTH: 130' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain, trace caliche nodules

GENERAL COMMENTS

Strong Hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504... Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-135 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 0753 PERSONNEL: J. Conrad; K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 135'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: (YES) NO DUPLICATE SAMPLE NO. CA504-SB501-135@0800

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~(3)~~ 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
2 ~~(1)~~ 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background N/A

Breathing zone NA

Boring 281 PPM

Headspace ~~49.6 PPM~~ KK

SAMPLE DESCRIPTION

DEPTH: 135' DESCRIPTION: Sand (SP) loose, moist, tan, Very fine grain, trace Caliche nodules

GENERAL COMMENTS

Strong Hydrocarbon Odor

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-140 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 9/10/2013 0756 PERSONNEL: J. Conrad; K. Wolters

SAMPLE METHOD / DEPTH: Sonic Drilling / 140'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	488 ppm
Headspace	49.6 ppm

SAMPLE DESCRIPTION

DEPTH: 140' DESCRIPTION: Sand (sp) loose, moist, tan, Very fine grain, trace caliche nodules

GENERAL COMMENTS

Strong Hydrocarbon Odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504... Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-145 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 0850 PERSONNEL: J. Conrad; K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 145'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~(3)~~ 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
3 ~~(1)~~ 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	320 PPM
Headspace	45.0 PPM

SAMPLE DESCRIPTION

DEPTH: 145' DESCRIPTION: Sand (sp) loose, moist, tan, Very fine grained trace caliche nodules.

GENERAL COMMENTS

Strong Hydrocarbon Odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-150 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 0858 PERSONNEL: S. Conrad; K. Klocwer

SAMPLE METHOD / DEPTH: Sonic Drilling / 150

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	360 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 150' DESCRIPTION: Sand (SP) loose, moist, tan, Very fine grain, trace Caliche nodules.

GENERAL COMMENTS

Strong Hydrocarbon Odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-155 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 0908 PERSONNEL: J. Conrad; K. Klewes

SAMPLE METHOD / DEPTH: Sonic Drilling / 155

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background N/A

Breathing zone N/A

Boring 400 ppm

Headspace 53.0 ppm

SAMPLE DESCRIPTION

DEPTH: 155' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain, trace caliche nodules.

GENERAL COMMENTS

Strong Hydocarbon Odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-160 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 0933 PERSONNEL: J. Conradi, K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 160'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: (YES) NO DUPLICATE SAMPLE NO. CA504-SB501-160@0805

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~(3)~~ 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
2 ~~(1)~~ 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	610 PPM
Headspace	360 PPM

SAMPLE DESCRIPTION

DEPTH: 160' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain, trace caliche nodules.

GENERAL COMMENTS

Strong Hydrocarbon Odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-165 BORING NO. **CA504-SB01**

DATE/TIME COLLECTED: 7/10/2013 1030 PERSONNEL: S. Conrad; K. Klocker

SAMPLE METHOD / DEPTH: **Sonic Drilling /** 165'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	**2 H_2O & 1 MeOH**	**BTEX + Naphthalene (8260B)**
(1) 8 oz glass jar	**none**	**Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)**

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	400 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 165' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain few caliche nodules.

GENERAL COMMENTS

Strong Hydrocarbon Odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-170 ~~1050~~ 1CK BORING NO. **CA504-SB01**

DATE/TIME COLLECTED: 7/10/2013 1050 PERSONNEL: S. Conrad; K. Klewer

SAMPLE METHOD / DEPTH: **Sonic Drilling / 170'**

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	**2 H_2O & 1 MeOH**	**BTEX + Naphthalene (8260B)**
(1) 8 oz glass jar	**none**	**Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)**

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	412 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 170' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain few caliche nodules

GENERAL COMMENTS

Strong Hydrocarbon Odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-175 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 1120 PERSONNEL: J. Conradi, K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 175'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	355 PPM
Headspace	5.01 PPM

SAMPLE DESCRIPTION

DEPTH: 175' DESCRIPTION: Sand (SP) - loose, moist, tan, very fine grain, few caliche nodules.

GENERAL COMMENTS

Strong hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-180 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 1130 PERSONNEL: S. Conradi
K. Klowers

SAMPLE METHOD / DEPTH: Sonic Drilling / 180'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
4 ~~(3)~~ 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
3 ~~(1)~~ 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	385 PPM
Headspace	73.5 PPM

SAMPLE DESCRIPTION

DEPTH: 180' DESCRIPTION: Sand (SP) - loose, moist, tan, very fine grain, few caliche nodules.

GENERAL COMMENTS

Strong Hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: SI-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-185 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 1245 PERSONNEL: S. Conrad; K. Klocow

SAMPLE METHOD / DEPTH: Sonic Drilling / 185'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background N/A

Breathing zone N/A

Boring 400 PPM

Headspace 41.8 PPM

SAMPLE DESCRIPTION

DEPTH: 185' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain, few caliche nodules.

GENERAL COMMENTS

Strong Hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-190 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 1315 PERSONNEL: J. Conrad; K. Kloeber

SAMPLE METHOD / DEPTH: Sonic Drilling / 190'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background N/A

Breathing zone N/A

Boring 300 PPM

Headspace 47.5 PPM

SAMPLE DESCRIPTION

DEPTH: 190' DESCRIPTION: Sand (SP) - loose, moist, tan, very fine grain, few caliche nodules.

GENERAL COMMENTS

Strong hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01--195 BORING NO. **CA504-SB01**

DATE/TIME COLLECTED: 7/10/2013 1325 PERSONNEL: S. Conrad; K. Kbeiwo

SAMPLE METHOD / DEPTH: **Sonic Drilling /** 195'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	**2 H_2O & 1 MeOH**	**BTEX + Naphthalene (8260B)**
(1) 8 oz glass jar	**none**	**Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)**

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	300 PPM
Headspace	47.5 PPM

SAMPLE DESCRIPTION

DEPTH: 195' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain, few caliche nodules.

GENERAL COMMENTS

Strong Hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-200 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 1350 PERSONNEL: J. Conrad; K. Klowers

SAMPLE METHOD / DEPTH: Sonic Drilling / 200'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES NO DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background N/A

Breathing zone N/A

Boring 372 PPM

Headspace N/A

SAMPLE DESCRIPTION

DEPTH: 200' DESCRIPTION: Sand (SP) - loose, moist, tan, very fine grain, few caliche nodules.

GENERAL COMMENTS

Strong Hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-205 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 1405 PERSONNEL: J. Conrad; K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 205'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background N/A

Breathing zone N/A

Boring 360 PPM

Headspace N/A

SAMPLE DESCRIPTION

DEPTH: 205' DESCRIPTION: Sand (SP) - loose, moist, tan, very fine grain, trace caliche nodules, Sand stone cobbles.

GENERAL COMMENTS

Strong Hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-210 BORING NO. **CA504-SB01**

DATE/TIME COLLECTED: 7/10/2013 1425 PERSONNEL: J. Conrad; K. Klocker

SAMPLE METHOD / DEPTH: **Sonic Drilling /** 210'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	**2 H_2O & 1 MeOH**	**BTEX + Naphthalene (8260B)**
(1) 8 oz glass jar	**none**	**Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)**

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	145 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 210' DESCRIPTION: Sand (SP) - loose, moist, tan, very fine grain, trace caliche nodules.

GENERAL COMMENTS

Strong hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-215 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 1435 PERSONNEL: J. Conrad; R. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 215'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES NO DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	180 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 215' DESCRIPTION: Sand (SP)-loose, moist, tan, Very fine grain, Some caliche, Sandstone cobbles.

GENERAL COMMENTS

Hydrocarbon odor less strong.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ~~ST-CA504~~ ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-220 BORING NO. **CA504-SB01**

DATE/TIME COLLECTED: 7/10/2013 1508 PERSONNEL: S. Conrad; K. Klockow

SAMPLE METHOD / DEPTH: **Sonic Drilling /** 220'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	**2 H_2O & 1 MeOH**	**BTEX + Naphthalene (8260B)**
(1) 8 oz glass jar	**none**	**Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)**

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	148 PPM
Headspace	48.5 PPM

SAMPLE DESCRIPTION

DEPTH: 220' DESCRIPTION: Sand (SP) - loose, moist, tan, very fine grain, Some caliche

GENERAL COMMENTS

Hydrocarbon odor less strong.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-225 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/10/2013 1535 PERSONNEL: J. Conradi
K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 225'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES ~~NO~~ SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES ~~NO~~ DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES ~~NO~~

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	200 PPM
Headspace	37.9 PPM

SAMPLE DESCRIPTION

DEPTH: 225' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain, Some caliche nodules,

GENERAL COMMENTS

Hydrocarbon odor less strong.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-230 0750 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/11/2013 0750 PERSONNEL: S. Conrad; K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 230'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	118 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 230' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain, Some caliche nodules.

GENERAL COMMENTS

Hydrocarbon odor less strong.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-235 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/11/2013 0803 PERSONNEL: J. Conradi, K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 235

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	118 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 235' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain, Some caliche nodules.

GENERAL COMMENTS

Hydrocarbon odor. Lower reading from PID could be from lower temps of air causing less volitilization.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-240 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/11/2013 0824 PERSONNEL: J. Conrad; K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 240'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: (YES) NO DUPLICATE SAMPLE NO. CA504-SB501-240@0800

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~(3)~~ 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
2 ~~(1)~~ 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	65.8 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 240' DESCRIPTION: Sand (SP) - loose, moist, tan, Very Fine grain, Some caliche nodules.

GENERAL COMMENTS

Less Hydocarbon odor. Low PID reading may be due to low air temps leading to less volitization.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-245 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/11/2013 0905 PERSONNEL: J. Conrad; K. Klocius

SAMPLE METHOD / DEPTH: Sonic Drilling / 245'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	125 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 245' DESCRIPTION: Sand (SP) - loose, moist, tan, Dry fine grain, few caliche nodules, Some Sandstone cobbles.

GENERAL COMMENTS

N/A

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-250 BORING NO. **CA504-SB01**

DATE/TIME COLLECTED: 7/11/2013 0915 PERSONNEL: S. Conradi

SAMPLE METHOD / DEPTH: **Sonic Drilling /** 250' K. Klowes

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	**2 H_2O & 1 MeOH**	**BTEX + Naphthalene (8260B)**
(1) 8 oz glass jar	**none**	**Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)**

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	34.0 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 250' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain few caliche nodules.

GENERAL COMMENTS

N/A

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-255 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/11/2013 1115 PERSONNEL: S. Conrad; K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 255

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	333 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 255' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain, few caliche nodules.

GENERAL COMMENTS

Hydrocarbon Odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: S.T.CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-260 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/11/2013 1152 PERSONNEL: S. Conrad; K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 260'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES NO DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	185 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 260' DESCRIPTION: Sand (SP) - loose, moist, tan - Dark tan, Very fine grain, few caliche nodules, Becoming increasingly moist.

GENERAL COMMENTS

Hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-265 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/11/2013 1236 PERSONNEL: J. Conrad; K. Klocker

SAMPLE METHOD / DEPTH: Sonic Drilling / 265'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES (NO) SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES (NO) DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	~~400 PPM~~ KK 400 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 265' DESCRIPTION: Sand (SP) - loose, very moist, tan to Dark tan, Very fine grain.

GENERAL COMMENTS

N/A

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-270 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/11/2012 1425 PERSONNEL: S. Conrad; K. Klocwes

SAMPLE METHOD / DEPTH: Sonic Drilling / 270'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES NO DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	90 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 270' DESCRIPTION: Sand (SP) - loose, moist, tan, Very fine grain.

GENERAL COMMENTS

No Hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

SITE NAME: ST-CA504 Cannon AFB New Mexico PROJECT NO. 16170622

SAMPLE NO. CA504-SB01-275 BORING NO. CA504-SB01

DATE/TIME COLLECTED: 7/11/2013 1430 PERSONNEL: S. Conrad; M. Klocek

SAMPLE METHOD / DEPTH: Sonic Drilling / 275'

SAMPLE MEDIA: [SOIL] SEDIMENT SLUDGE

SAMPLE QA SPLIT: YES NO SPLIT SAMPLE NO. N/A

SAMPLE QC DUPLICATE: YES NO DUPLICATE SAMPLE NO. N/A

MS/MSD REQUESTED: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(3) 40 mL VOA vials	2 H_2O & 1 MeOH	BTEX + Naphthalene (8260B)
(1) 8 oz glass jar	none	Site-Related SVOCs (8270D), DRO (8015C), ORO (8015C)

OVA MEASUREMENTS

Background	N/A
Breathing zone	N/A
Boring	77 PPM
Headspace	N/A

SAMPLE DESCRIPTION

DEPTH: 275' DESCRIPTION: Sand (SP) - loose, moist, tan, very fine grain.

GENERAL COMMENTS

NO Hydrocarbon odor.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB03-005

Boring No. CA505 SB03

Date/Time Collected: 4-18-13 / 1030

Personnel: MC SJ

Sample Method/Depth: Direct Push w/ Macro core 0-5.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: 0.6

SOIL DESCRIPTION

Depth: 0-5.0 Soil Description: Silty SAND (SM) - medium dense, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB03-010

Boring No. CA505-SB03

Date/Time Collected: 4-18-13 / 1033

Personnel: MC SS

Sample Method/Depth: Direct Push w/ Macro core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	1.1

SOIL DESCRIPTION

Depth:	Soil Description:
5.0-7.9	Silty SAND (SM) - medium dense, dry, brown
7.9-10.0	Sandy SILT (ML) - stiff, dry, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB03-015

Boring No. CA505-SB03

Date/Time Collected: 4-18-13 / 1040

Personnel: MC SJ

Sample Method/Depth: Direct Push w/ Macro core / 10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: (YES) NO

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO. CA505-SB503-015 @ 0800

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	1.3

SOIL DESCRIPTION

Depth:	Soil Description:
10.0-13.0	Sandy SILT (ML) - Stiff, dry, light tan
13.0-15.0	SAND (SP) - loose, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB03-020

Boring No. CA505-SB03

Date/Time Collected: 4-18-13 / 1046

Personnel: ML SJ

Sample Method/Depth: Direct Push w/ Macro core / 15.0-20.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	1.0

SOIL DESCRIPTION

Depth: 15.0-20.0 Soil Description: SAND (SP) - loose, dry, brown, fine-grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB03-025

Boring No. CA505-SB03

Date/Time Collected: 4-18-13 / 1100

Personnel: MC SJ

Sample Method/Depth: Direct Push w/ MACRO core / 20.0-25.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		site related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	0.7

SOIL DESCRIPTION

Depth: 20.0-25.0 Soil Description: SAND (SP) - loose, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB03-030

Boring No. CA505-SB03

Date/Time Collected: 4-18-13 / 1120

Personnel: MC SJ

Sample Method/Depth: Direct Push w/ Macro core / 25-30

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	0.8

SOIL DESCRIPTION

Depth: 25-30 Soil Description: SAND(SP) - loose, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB05-005

Boring No. CA505-SB05

Date/Time Collected: 4-18-13/ 0907

Personnel: MG, SJ

Sample Method/Depth: Direct Push w/ Macro core/0-4.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.3

SOIL DESCRIPTION

Depth: 0-4.5 Soil Description: Silty SAND (SM) - Medium dense, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB05-01D

Boring No. CA505-SB05

Date/Time Collected: 4-18-13/ 0916

Personnel: MG, SJ

Sample Method/Depth: Direct Push w/ Macro core/5-9.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.7

SOIL DESCRIPTION

Depth:	Soil Description:
5-8.5	Silty SAND (SM) - Medium dense reddish brown
8.5-9.5	Sandy SILT (ML) - Medium stiff, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB05-015

Boring No. CA505-SB05

Date/Time Collected: 4-18-13/0922

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/10-14.7

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.5

SOIL DESCRIPTION

Depth:	Soil Description:
10-10.5	Sandy SILT (ML) - Medium stiff, light tan
10.5-14.7	SAND (SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB05-020

Boring No. CA505-SB05

Date/Time Collected: 4-18-13/0930

Personnel: MG SJ

Sample Method/Depth: Direct Push w/ Macro core/15-20

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.6

SOIL DESCRIPTION

Depth: 15-20

Soil Description: SAND (SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB05-025

Boring No. CA505-SB05

Date/Time Collected: 4-18-13/ 0957

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/20-25

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1-6

SOIL DESCRIPTION

Depth: 20-25 Soil Description: SAND(SP) - Loose, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB08-005

Boring No. CA505-SB08

Date/Time Collected: 4-18-13/ 0755

Personnel: ML, SJ

Sample Method/Depth: Direct Push w/ Macro core / 0-5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2.1

SOIL DESCRIPTION

Depth: 0-5

Soil Description: Silty SAND (SM) - Medium dense, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB08-010

Boring No. CA505-SB08

Date/Time Collected: 4-18-13/ 0804

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.7

SOIL DESCRIPTION

Depth:	Soil Description:
5-7.7	Silty SAND (SM) - Medium dense, brown
7.7-10	Sandy SILT (ML) - Medium stiff, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB08-015

Boring No. CA505-SB08

Date/Time Collected: 4-18-13/ 0812

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core / 10-15

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.9

SOIL DESCRIPTION

Depth:	Soil Description:
10-12	Sandy SILT (ML) - Medium stiff, light tan
12-15	SAND (SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB08-020

Boring No. CA505-SB08

Date/Time Collected: 4-18-13 / 0819

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ MACRO core / 15-20

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0-7

SOIL DESCRIPTION

Depth: 15-20 Soil Description: SAND(SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB08-025

Boring No. CA505-SB08

Date/Time Collected: 4-18-13/ 0858

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/20-25

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.5

SOIL DESCRIPTION

Depth: 20-25 Soil Description: SAND (SP) — Loose, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB10-005

Boring No. CA505-SB10

Date/Time Collected: 4-17-13 / 1102

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core 0-5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.9

SOIL DESCRIPTION

Depth: 0-5

Soil Description: Silty SAND (SM) - Medium dense, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB10-010

Boring No. CA505-SB10

Date/Time Collected: 4-17-13/1111

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.7

SOIL DESCRIPTION

Depth:	Soil Description:
5-7.5	Silty SAND (SM) - Medium dense, brown
7.5-10	Sandy SILT (ML) - stiff, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB10-015

Boring No. CA505-SB10

Date/Time Collected: 4-17-13/1116

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.0

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Stiff, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB10-020

Boring No. CA505-SB10

Date/Time Collected: 4-17-13/ 1125

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ MACRO core/15-20

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.8

SOIL DESCRIPTION

Depth: 15-20 Soil Description: SAND(SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB10-024

Boring No. CA505-SB10

Date/Time Collected: 4-17-13/ 1137

Personnel: MG, SJ

Sample Method/Depth: Direct Push w/ Macro core/20-24

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.5

SOIL DESCRIPTION

Depth: 20-24 Soil Description: SAND (SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB06-005

Boring No. CA505-SB06

Date/Time Collected: 4-17-13/ 1430

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/0-5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2.2

SOIL DESCRIPTION

Depth: 0-5

Soil Description: Silty SAND (SM) - Medium dense, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB06-010

Boring No. CA505-SB06

Date/Time Collected: 4-17-13/ 1435

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.1

SOIL DESCRIPTION

Depth:	Soil Description:
5-7.5	Silty SAND (SM) - Medium dense, reddish Brown
7.5-10	Sandy SILT (ML) - Stiff, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB06-015

Boring No. CA505-SB06

Date/Time Collected: 4-17-13/ 1440

Personnel: MC, JJ

Sample Method/Depth: Direct Push w/ Macro core/ 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.3

SOIL DESCRIPTION

Depth:	Soil Description:
10-14.5	Sandy SILT (ML) - Stiff, light tan
14.5-15	SAND (SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB06-020

Boring No. CA505-SB06

Date/Time Collected: 4-17-13/1451

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/15-20

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.9

SOIL DESCRIPTION

Depth: 15-20

Soil Description: SAND (SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB06-025

Boring No. CA505-SB06

Date/Time Collected: 4-17-13/1500

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/20-25

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0-7

SOIL DESCRIPTION

Depth: 20-25 Soil Description: Silty SAND (SM) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB07-005

Boring No. CA505-SB07

Date/Time Collected: 4-17-13/ 0940

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/0-5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.8

SOIL DESCRIPTION

Depth: 0-5

Soil Description: Silty SAND (SM) - Medium dense, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB07-010

Boring No. CA505-SB07

Date/Time Collected: 4-17-13/ 0953

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core / 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.7

SOIL DESCRIPTION

Depth:	Soil Description:
5-7	Silty SAND (SM) - Medium dense, brown
7-10	Sandy SILT (ML) - Stiff, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB07-015

Boring No. CA505-SB07

Date/Time Collected: 4-17-13/ 1001

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/10-15

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.3

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Stiff, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB07-020

Boring No. CA505-SB07

Date/Time Collected: 4-17-13/ 1012

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ MACro core/15-20

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.6

SOIL DESCRIPTION

Depth:	Soil Description:
15-16	Sandy SILT (ML) - Stiff, light tan
16-20	SAND (SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB07-025

Boring No. CA505-SB07

Date/Time Collected: 4-17-13/1031

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/20-25

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.0

SOIL DESCRIPTION

Depth: 20-25 Soil Description: Silty SAND (SM) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB02-005

Boring No. CA505-SB02

Date/Time Collected: 4-17-13/1247

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/0-4.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA505-SB02-005

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.5

SOIL DESCRIPTION

Depth: 0-4.5 Soil Description: SAND(SP) - Medium dense, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB02-010

Boring No. CA505-SB02

Date/Time Collected: 4-17-13/ 1255

Personnel: MC, DJ

Sample Method/Depth: Direct Push w/ Macro core / ~~0-4.5~~ 5-9.5 MC

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA505-SB02-010

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015c)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.3

SOIL DESCRIPTION

Depth:	Soil Description:
~~5-9.5~~ 7.8 MC	SAND(SP) – Medium dense, brown
7.8-9.5	SILT(ML) – Stiff, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB02-015

Boring No. CA505-SB02

Date/Time Collected: 4-17-13/1304

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.1

SOIL DESCRIPTION

Depth: 10-15 Soil Description: SILT (ML) - Stiff, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB02-020

Boring No. CA505-SB02

Date/Time Collected: 4-17-13/1314

Personnel: MC, SJ

Sample Method/Depth: Direct Push / Macro core / 15-20

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.8

SOIL DESCRIPTION

Depth:	Soil Description:
15-15.5	SILT(ML)-Stiff, light tan
15.5-19.5	SAND(SP)-Loose, light brown
19.5-20	Silty SAND(SM)-Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB02-025

Boring No. CA505-SB02

Date/Time Collected: 4-17-13/1330

Personnel: ML, SJ

Sample Method/Depth: Direct Push w/ Macro core/20-25

Sample Media: ~~SOIL~~ SEDIMENT SLUDGE

Sample QA Split: YES ~~NO~~

Sample QC Duplicate: YES ~~NO~~

MS/MSD Requested: YES ~~NO~~

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.2

SOIL DESCRIPTION

Depth:	Soil Description:
20-23	Silty SAND (SM) - Loose, light brown
23-25	SILT (ML) - Stiff, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB02-030

Boring No. CA505-SB02

Date/Time Collected: 4-17-13/1350

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/25-30

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.4

SOIL DESCRIPTION

Depth: 25-30 Soil Description: SILT(mL) - Stiff, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB01-005

Boring No. CA505-SB01

Date/Time Collected: 4-16-13/1540

Personnel: MG, SJ

Sample Method/Depth: Direct Push w/ Macro core/0-5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2.1

SOIL DESCRIPTION

Depth: 0-5

Soil Description: SILT(ML) - Stiff, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB01-010

Boring No. CA505-SB01

Date/Time Collected: 4-16-13/1555

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA505-SB501-010

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.9

SOIL DESCRIPTION

Depth:	Soil Description:
5-6	SILT (ML) - Stiff, reddish brown
6-10	SAND (SP) - Loose, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB01-015

Boring No. CA505-SB01

Date/Time Collected: 4-17-13 / 0816

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core / 10-15

Sample Media: SOIL (YES) SEDIMENT (NO) SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO. CA505-SB501-015

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.9

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Silty SAND (SM) - Loose, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB01-020

Boring No. CA505-SB01

Date/Time Collected: 4-17-13/0833

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/15-20

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Split Sample NO.

Sample QC Duplicate: YES (circled) NO

Duplicate Sample NO. CA505-SB501-020

MS/MSD Requested: YES NO (circled)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.1

SOIL DESCRIPTION

Depth:	Soil Description:
15-17.5	Silty SAND (SM) - Loose, light brown
17.5-20	Sandy SILT (ML) - Very soft, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB01-025

Boring No. CA505-SB01

Date/Time Collected: 4-17-13/ 0906

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/20-25

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.8

SOIL DESCRIPTION

Depth:	Soil Description:
20-23.5	Sandy SILT (ML) - Very soft, light brown
23.5-25	SAND (SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB01-030

Boring No. CA505-SB01

Date/Time Collected: 4-17-13/0925

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/25-30

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.3

SOIL DESCRIPTION

Depth: 25-30 Soil Description: SAND(SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB04-004

Boring No. CA505-SB04

Date/Time Collected: 4-16-13 / ~~1430~~ MC 1435

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core / 0-4.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0-6

SOIL DESCRIPTION

Depth:	Soil Description:
0-2.7	SILT (ML) - Stiff, brown
2.7-4.0	SAND (SP) - Loose, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB04-009

Boring No. CA505-SB04

Date/Time Collected: 4-16-13/1445

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/5-9'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.0

SOIL DESCRIPTION

Depth:	Soil Description:
5-8	SAND (SP) - Loose, reddish brown
8-9	SILT (ML) - Soft, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB04-014

Boring No. CA505-SB04

Date/Time Collected: 4-16-13 / 1458

Personnel: MG, SJ

Sample Method/Depth: Direct Push w/ Macro core / 10-14

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	NO
Breathing zone	NO
Boring	NO
Headspace	1-6

SOIL DESCRIPTION

Depth:	Soil Description:
10-13.5	SILT (ML) - Soft, light tan
13.5-14	SAND (SP) - Loose, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB04-020

Boring No. CA505-SB04

Date/Time Collected: 4-16-13 / 1505

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core / 15-20

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.4

SOIL DESCRIPTION

Depth: 15-20

Soil Description: SAND (SP) - Loose, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB04-025

Boring No. CA505-SB04

Date/Time Collected: 4-16-13/1520

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/20-25

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.9

SOIL DESCRIPTION

Depth: 20-25 Soil Description: SAND(SP) - Loose, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB09-005

Boring No. CA505-SB09

Date/Time Collected: 4-16-13/1320

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/0-4.5'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.6

SOIL DESCRIPTION

Depth:	Soil Description:
0-4	SILT (ML) - Stiff, dry, brown
4-4.6	SAND (SP) - Loose, dry, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-S809-009

Boring No. CA505-S809

Date/Time Collected: 4-16-13/1335

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ Macro core/5-9'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015c)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.0

SOIL DESCRIPTION

Depth:	Soil Description:
5-6.5	SAND (SP) - Loose, dry, reddish brown
6.5-9	SILT (ML) - Soft, dry, reddish white

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB09-014

Boring No. CA505-SB09

Date/Time Collected: 4-16-13/1350

Personnel: ML, SJ

Sample Method/Depth: Direct Push w/Macro core/10-13.7'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015c)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.8

SOIL DESCRIPTION

Depth: 10-13.7 Soil Description: SILT(ML)-soft, dry, reddish white

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB09-019

Boring No. CA505-SB09

Date/Time Collected: 4-16-13 / 1400

Personnel: MC, SJ

Sample Method/Depth: Direct Push w/ MACRO core / 15-19'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015c)
		Site Related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.3

SOIL DESCRIPTION

Depth:	Soil Description:
15-15.5	SILT (ML) - Stiff, light tan
15.5-18.5	SAND (SP) - Loose, light brown
18.5-19	Sandy SILT (ML) -

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C505 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA505-SB09-025

Boring No. CA505-SB09

Date/Time Collected: 4/16/13 — 1415

Personnel: ML, SJ

Sample Method/Depth: Direct Push w/ MACRO core 20-25'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.0

SOIL DESCRIPTION

Depth:	Soil Description:
20-24	Sandy SILT (ML) - Very soft, light brown
24-25	SAND (SP) - Loose, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS01-001

Boring No. CA507-SB01

Date/Time Collected: 2-4-13/1220

Personnel: MC, JC

Sample Method/Depth: Hand trowel ~~Direct Push w/macro core~~ 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Silty CLAY (CL) - Very stiff, moist, brown, low plastic

GENERAL COMMENTS

* collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB01-004

Boring No. CA507-SB01

Date/Time Collected: 2-4-13/1230

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/0.5-4

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-1.2	Gravelly SAND (SP) - loose, moist, light tan, poorly sorted
1.2-2.7	SAND (SP) - loose, moist, brown, fine
2.7-4	Sandy SILT (ML) - Stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB01-010

Boring No. CA507-SB01

Date/Time Collected: 2-4-13/1240

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Stiff, moist, tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB01-015

Boring No. CA507-SB01

Date/Time Collected: 2-4-13/1250

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/10-14.6

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 10-14.6 Soil Description: Sandy SILT (ML) - Very stiff, dry, light tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS02-001

Boring No. CA507-SB02

Date/Time Collected: 2-4-13 / 1050

Personnel: MC, JC

Sample Method/Depth: Hand trowel ~~Direct Push w/macro core~~ / 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Gravelly SILT(ML) - Very stiff, moist, brown, low plastic

GENERAL COMMENTS

* Collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB02-004

Boring No. CA507-SB02

Date/Time Collected: 2-4-13/1100

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/0.5-4.1

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0.5-4.1 Soil Description: Gravelly SILT (ML) - Very stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB02-010

Boring No. CA507-SB02

Date/Time Collected: 2-4-13/1110

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB502-010

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3.4

SOIL DESCRIPTION

Depth: 5-10

Soil Description: ~~SAND(SP)~~ SILT(ML) - Stiff, dry, light brown, low plastic, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB02-015

Boring No. CA507-SB02

Date/Time Collected: 2-4-13/ 1125

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	7.1

SOIL DESCRIPTION

Depth:	Soil Description:
10 – 11	Sandy SILT (ML) – Stiff, dry, light brown
11 – 12.1	SAND (SP) – Loose, ~~dry~~ moist, brown, fine
12.1 – 15	Sand SILT (ML) – Very stiff, moist, brown, with trace clay

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS03-001

Boring No. CA507-SB03

Date/Time Collected: 2-4-13 / 0940

Personnel: MC, JC

Sample Method/Depth: Hand trowel ~~Direct Push w/macro core~~ / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Sandy SILT (ML) - Very stiff, moist, brown, low plastic

GENERAL COMMENTS

* collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB03-005

Boring No. CA507-SB03

Date/Time Collected: 2-4-13/ 0955

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/0.5-5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	12.6

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-4	Sandy SILT (ML) - Very stiff, moist, brown, low plastic
4-5	Silty SAND (SM) - Medium dense, moist, light tan, poorly sorted

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB03-010

Boring No. CA507-SB03

Date/Time Collected: 2-4-13/ 1005

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Stiff, dry, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB03-015

Boring No. CA507-SB03

Date/Time Collected: 2-4-13/ 1015

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Very stiff, dry, light tan, w/calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS04-001

Boring No. CA507-SB04

Date/Time Collected: 2-4-13 / 1520

Personnel: MC, JC

Sample Method/Depth: Hand trowel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SS04-001

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Gravelly SAND (SP) - Loose, dry, brown, poorly sorted

GENERAL COMMENTS

Collected using hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB04-004

Boring No. CA507-SB04

Date/Time Collected: 2-4-13 / 1540

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core / 0.5-4.2

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2.5

SOIL DESCRIPTION

Depth: 0.5-4.2 Soil Description: SAND (SP) - Loose, dry, brown, very fine-grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB04-010

Boring No. CA507-SB04

Date/Time Collected: 2-4-13 / 1550

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core / 5-9.6

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.6

SOIL DESCRIPTION

Depth: 5-9.6 Soil Description: Sandy SILT (ML) – Very stiff, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB04-015

Boring No. CA507-SB04

Date/Time Collected: 2-4-13 / 1600

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: ND

SOIL DESCRIPTION

Depth: 10-15 Soil Description: Sandy SILT (ML) - Very stiff, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS05-001

Boring No. CA507-SB05

Date/Time Collected: 2-5-13 / 0850

Personnel: JC MC

Sample Method/Depth: ~~Direct Push w/ macro core / 0-0.5~~

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SAND (SP) - loose, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB05-005

Boring No. CA507-SB05

Date/Time Collected: 2-5-13 / 0915

Personnel: JC MC

Sample Method/Depth: Direct Push w/ macro core / 0.5-4.7

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB505-005

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3.6

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-2.8	SAND (SP) - loose, dry, brown
2.8-4.7	Sandy SILT (ML) - very stiff, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB05-010

Boring No. CA507-SB05

Date/Time Collected: 2-5-13 / 0940

Personnel: JC MC

Sample Method/Depth: Direct Push w/ macro core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth:	Soil Description:
5.0-8.2	Sandy SILT (ML) - very stiff, dry, brown
8.2-10.0	Silty CLAY (CL) - very stiff, moist light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB05-015

Boring No. CA507-SB05

Date/Time Collected: 2-5-13/0950

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core/120-150

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth:	Soil Description:
10.0-10.5	Silty CLAY(CL) - very stiff, moist, light brown
10.5-13.2	Silty SAND(SP) - medium, dense, moist, reddish brown
13.2-15.0	SILT(ML) - stiff, moist, tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS06-001

Boring No. CA507-SB06

Date/Time Collected: 2-5-13 / 1015

Personnel: JC MC

Sample Method/Depth: Hand trowel ~~Direct Push~~ w/ macro core / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Gravelly SAND (SP) - loose, dry, brown

GENERAL COMMENTS

* collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB06-005

Boring No. CA507-SB06

Date/Time Collected: 2-5-13 / 1030

Personnel: JC MC

Sample Method/Depth: Direct Push w/ macro core / 0.5-5.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 0.5-5.0 Soil Description: SILT (ML) - very stiff, dry, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB06-010

Boring No. CA507-SB06

Date/Time Collected: 2-5-13 / 1045

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 27

SOIL DESCRIPTION

Depth: 5.0-10.0 Soil Description: SILT (ML) - very stiff, dry, light tan calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB06-015

Boring No. CA507-SB06

Date/Time Collected: 2-5-13/1055

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core/10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth:	Soil Description:
10.0-10.8	SILT (ML) - stiff, dry, light tan, low plastic
10.8-13.5	~~SILTY~~, SAND (SM) - medium dense, moist, reddish brown
13.5-15.0	SILTY SILT (ML) - very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS07-001

Boring No. CA507-SB07

Date/Time Collected: 2-5-13 / 1120

Personnel: JC MC

Sample Method/Depth: hand tools ~~Direct Push w/ macro core~~ / 0.0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Gravelly SAND (SP) - loose, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB07-005

Boring No. CA507-SB07

Date/Time Collected: 2-5-13 / 1135

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core 0.5-4.8

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB507-005

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 0.6

SOIL DESCRIPTION

Depth: 0.5-4.8 Soil Description: Sandy SILT (ML) - Hard, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB07-008

Boring No. CA507-SB07

Date/Time Collected: 2-5-13 / 1155

Personnel: JC MC

Sample Method/Depth: Direct Push w/ macro core / 5.0-7.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5.0-6.5	Sandy SILT (ML) - Hard, dry, brown
6.5-7.5	Silty CLAY (CL) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB07-015

Boring No. CA507-SB07

Date/Time Collected: 2-5-13 / 1210

Personnel: JC MC

Sample Method/Depth: Direct Push w/ macro core / 10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth:	Soil Description:
10.0-10.5	Silty CLAY (CL) - very stiff, moist, light brown
10.5-15.0	SILT (ML) - very stiff, moist, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS08-001

Boring No. CA507-SB08

Date/Time Collected: 2-12-13/ 1357

Personnel: MC, JC, AR

Sample Method/Depth: Hand trowel ~~Direct Push w/macro core~~ / 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: ~~YES~~ MC NO

Duplicate Sample NO. ~~CA507-SS08-001~~ MC

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

* collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB08-005

Boring No. CA507-SB08

Date/Time Collected: 2-12-13 / 1357

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 0.5-4.8

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB508-005

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0.5-4.8 Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB08-010

Boring No. CA507-SB08

Date/Time Collected: 2-12-13/1405

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-9.6

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-9.6 Soil Description: Sandy SILT (ML) - Stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB08-013

Boring No. CA507-SB08

Date/Time Collected: 2-12-13/1419

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/10-12.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 10-12.5 Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB09-001

Boring No. CA507-SB09

Date/Time Collected: 2-12-13 / 1305

Personnel: MC, JC, AR

Sample Method/Depth: hand trowel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Sandy SILT (ML) - Hard, moist, light brown

GENERAL COMMENTS

* collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB09-004

Boring No. CA507-SB09

Date/Time Collected: 2-12-13/1320

Personnel: MC, DC, AR

Sample Method/Depth: Direct Push w/ macro core/0.5-4

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.7

SOIL DESCRIPTION

Depth: 0.5-4 Soil Description: Sandy SILT (ML) - Hard, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB09-010

Boring No. CA507-SB09

Date/Time Collected: 2-12-13/1327

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.9

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - ~~Hard~~ Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-S809-015

Boring No. CA507-S809

Date/Time Collected: 2-12-13 / 1334

Personnel: ML, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 10-14.8

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.1

SOIL DESCRIPTION

Depth: 10-14.8 Soil Description: Sandy SILT (ML) - Very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB10-005

Boring No. CA507-SB10

Date/Time Collected: 2-12-13/ 1020

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 1-5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES ~~NO~~

Split Sample NO.

Sample QC Duplicate: YES ~~NO~~

Duplicate Sample NO.

MS/MSD Requested: YES ~~NO~~

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.6

SOIL DESCRIPTION

Depth:	Soil Description:
1-2	SAND (SP)
2-3	CLAY (CL)
3-5	Sandy SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB10-010

Boring No. CA507-SB10

Date/Time Collected: 2-12-13 / 1025

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.4

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB10-015

Boring No. CA507-SB10

Date/Time Collected: 2-12-13/1030

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 0.8

SOIL DESCRIPTION

Depth: 10-15 Soil Description: Sandy SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB11-005

Boring No. CA507-SB11

Date/Time Collected: 2-12-13 / 1052

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 1-5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2.9

SOIL DESCRIPTION

Depth:	Soil Description:
1-2	SAND (SP) - loose, moist, light brown
2-2.8	CLAY (CL) - Hard, moist, brown
2.8-5	Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB11-010

Boring No. CA507-SB11

Date/Time Collected: 2-12-13 / 1058

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3.1

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB11-015

Boring No. CA507-SB11

Date/Time Collected: 2-12-13/1103

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: (YES) NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
6 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	19.1

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT(ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS12-001

Boring No. CA507-SB12

Date/Time Collected: 2-6-13 / 0957

Personnel: MC, JC

Sample Method/Depth: Hand trowel ~~Direct Push w/macro core~~ / 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SAND (SP) - Loose, dry, reddish brown, fine grained

GENERAL COMMENTS

collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB12-004

Boring No. CA507-SB12

Date/Time Collected: 2-6-13/ 1007

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core/0.5-4

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-0.8	SAND(SP) - Loose, dry, reddish brown, fine
0.8-4	Sandy SILT(ML) - Hard, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB12-010

Boring No. CA507-SB12

Date/Time Collected: 2-6-13/1020

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB512-010

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-10 ~~7-10~~ MC

Soil Description: Sandy SILT (ML) - Stiff, moist, light tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB12-015

Boring No. CA507-SB12

Date/Time Collected: 2-6-13/ 1045

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 10-15 Soil Description: SILT(ML) - Stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB12-020

Boring No. CA507-SB12

Date/Time Collected: 2-6-13/1050

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/15-20

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 15-20

Soil Description: SAND(SP) - Loose, moist, light brown, fine

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS13-001

Boring No. CA507-SB13

Date/Time Collected: 2-6-13/ 0830

Personnel: MC, JC

Sample Method/Depth: ~~Direct Push w/ macro core~~ Hand Trowel 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SAND (SP) - Loose, dry, reddish brown, fine

GENERAL COMMENTS

Collected using hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB13-004

Boring No. CA507-SB13

Date/Time Collected: 2-6-13/ 0853

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/0.5-4.0

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0.5-4.0 Soil Description: Sandy SILT (ML) - Very stiff, dry, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB13-010

Boring No. CA507-SB13

Date/Time Collected: 2-6-13/0911

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core / 5-9.5

Sample Media: SOIL / SEDIMENT / SLUDGE

Sample QA Split: YES / NO

Sample QC Duplicate: YES / NO

MS/MSD Requested: YES / NO

Split Sample NO.

Duplicate Sample NO. CA507-SB513-010

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-9.5 Soil Description: Sandy SILT (ML) - Very stiff, dry, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB13-015

Boring No. CA507-SB13

Date/Time Collected: 2-6-13 / 0925

Personnel: MCJC

Sample Method/Depth: Direct Push w/macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
10-12.7	Sandy SILT (ML) - Very stiff, dry, brown, low plastic
12.7-15	Silty CLAY (CL) - Very stiff, moist, light tan, med plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB13-020

Boring No. CA507-SB13

Date/Time Collected: 2-6-13 / 0935

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core / 15-20

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
15-16	Sandy SILT (ML) - Very stiff, dry, brown, low plastic
16-17	SAND (SP) - Loose, moist, light brown, fine
17-20	SILT (ML) - Hard, moist, light tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS14-001

Boring No. CA507-SB14

Date/Time Collected: 2-8-13 / 1235

Personnel: MC, JC, AR

Sample Method/Depth: Hand Auger ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Sandy SILT (ML) - Very Stiff, dry, light brown, low plastic

GENERAL COMMENTS

* collected with hand tools

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-S814-004

Boring No. CA507-S814

Date/Time Collected: 2-8-13 / 1245

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 0.5-4

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0.5-4

Soil Description: Sandy SILT (ML) - Very stiff, dry, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB14-010

Boring No. CA507-SB14

Date/Time Collected: 2-8-13 / 1255

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push / w/ macro core / 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Silty Sandy SILT (ML) - Stiff, moist, light tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB14-015

Boring No. CA507-SB14

Date/Time Collected: 2-8-13 / 1305

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
6 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
10-14.4	Sandy SILT (ML) - Hard, moist, light tan, low plastic
14.4-15	SAND (SP) - loose, moist, light brown, fine grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB15-005

Boring No. CA507-SB15

Date/Time Collected: 2-11-13/1350

Personnel: ~~CA507 SB.m~~ MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/1-5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 1-5

Soil Description: Sandy SILT (ML) - Hard, moist, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB15-010

Boring No. CA507-SB15

Date/Time Collected: 2-11-13/1357

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	35.0

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB15-015

Boring No. CA507-SB15

Date/Time Collected: 2-11-13 / 1403

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
6 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	105

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB15-020

Boring No. CA507-SB15

Date/Time Collected: 2-11-13 / 1427

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push / w/ macro core / 15-20

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	4.1

SOIL DESCRIPTION

Depth: 15-20 Soil Description: Sandy SILT (ML) - Very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB16-005

Boring No. CA507-SB16

Date/Time Collected: 2-11-13 / 1500

Personnel: ML, JL, AR

Sample Method/Depth: Direct Push w/macro core / 1-5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 2.6

SOIL DESCRIPTION

Depth: 1-5

Soil Description: Sandy SILT (ML) - Very stiff, moist, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB16-010

Boring No. CA507-SB16

Date/Time Collected: 2-11-13 / 1507

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2.0

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB16-015

Boring No. CA507-SB16

Date/Time Collected: 2-11-13 / [redacted] 1513

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: (YES) NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
6 ~~2~~ x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2.3

SOIL DESCRIPTION

Depth:	Soil Description:
10-14	Sandy SILT (ML) - Very stiff, moist, light brown
14-15	SAND (SP) - Loose, moist, light brown, fine-grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB17-005

Boring No. CA507-SB17

Date/Time Collected: 2-11-18/1303

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/1-5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 1.6

SOIL DESCRIPTION

Depth: 1-5

Soil Description: Sandy SILT (ML) - Stiff, moist, brown, med plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB17-010

Boring No. CA507-SB17

Date/Time Collected: 2-11-13 / 1311

Personnel: MC, JC, AK

Sample Method/Depth: Direct Push w/ macro core / 5-10

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 4.5

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB17-015

Boring No. CA507-SB17

Date/Time Collected: 2-11-13/1317

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/10-15

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 7.2

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT(ML) - Very stiff, moist, tan, medium plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB18-004

Boring No. CA507-SB18

Date/Time Collected: 2-11-15 / 1200

Personnel: ML, JC, AR

Sample Method/Depth: Direct Push w/macro core / 1-4

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 1.5

SOIL DESCRIPTION

Depth: 1-4

Soil Description: Sandy SILT (ML) - Very stiff, moist, brown, med non plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB18-010

Boring No. CA507-SB18

Date/Time Collected: 2-11-13 / 1026

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 5-10

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.9

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB18-015

Boring No. CA507-SB18

Date/Time Collected: 2-11-13/ 1235

Personnel: ML, JC, AR

Sample Method/Depth: Direct Push w/macro core/10-15

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Sample QC Duplicate: YES NO (circled)

MS/MSD Requested: YES (circled) NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 3-x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
6 2-x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 2-x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.3

SOIL DESCRIPTION

Depth: 10-15

Soil Description: SILT(ML) - Very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS19-001

Boring No. CA507-SB19

Date/Time Collected: 2-6-13/ 1500

Personnel: MC, JC

Sample Method/Depth: Hand trowel ~~Direct Push w/ macro core~~ 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SAND(SP) - Loose, dry, brown, fine

GENERAL COMMENTS

D collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB19-003

Boring No. CA507-SB19

Date/Time Collected: 2-6-13/1515

Personnel: MCJC

Sample Method/Depth: Direct Push w/macro core/0.5-2.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-1.5	SAND (SP) - Loose, dry, brown, fine
1.5-2.5	CLAY (CL) - Hard, moist, dark brown, med plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB19-010

Boring No. CA507-SB19

Date/Time Collected: 2-6-13 / 1525

Personnel: MC, JC

Sample Method/Depth: Direct Push / w/ macro core / 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Stiff, moist, tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS20-001

Boring No. CA507-SB20

Date/Time Collected: 2-13-13 / 1342

Personnel: MC, JC, AR

Sample Method/Depth: Hand trowel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.2

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Sandy SILT (ML) - Stiff, moist, brown

GENERAL COMMENTS

collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB20-004

Boring No. CA507-SB20

Date/Time Collected: 2-13-13/1350

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/0.5-4.2

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.2

SOIL DESCRIPTION

Depth: 0.5-4.2 Soil Description: Sandy SILT (ML) - Stiff, moist, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB20-010

Boring No. CA507-SB20

Date/Time Collected: 2-13-13 / 1357

Personnel: MGJC, AR

Sample Method/Depth: Direct Push / w/ macro core / 5-9.6

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.4

SOIL DESCRIPTION

Depth: 5-9.6 Soil Description: Sandy SILT (ML) - Stiff, moist, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB20-015

Boring No. CA507-SB20

Date/Time Collected: 2-13-13/1402

Personnel: ML, JL, AR

Sample Method/Depth: Direct Push w/macro core / 10-15

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.7

SOIL DESCRIPTION

Depth: 10-15 Soil Description: Sandy SILT (ML) - Stiff, moist, reddish brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS21-001

Boring No. CA507-SB21

Date/Time Collected: 2-10-13 / 1245

Personnel: MC, JC, AR

Sample Method/Depth: Hand trowel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: SOIL / SEDIMENT / SLUDGE

Sample QA Split: YES / NO

Sample QC Duplicate: YES / NO

MS/MSD Requested: YES / NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0 – 0.5 Soil Description: Gravelly SAND (SP) – Loose, dry, light brown, fine grained

GENERAL COMMENTS

* collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB21-004

Boring No. CA507-SB21

Date/Time Collected: 2-10-13/1257

Personnel: ML, SL, AR

Sample Method/Depth: Direct Push w/ macro core / 0.5-4

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-1	Gravelly SAND (SP) - Loose, dry, light brown, fine
1-4	Sandy SILT (ML) - Hard, moist, light brown, med plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB21-010

Boring No. CA507-SB21

Date/Time Collected: 2-10-13/ 1305

Personnel: ML, JC, AR

Sample Method/Depth: Direct Push w/macro core / 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	35.0

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, light tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB21-015

Boring No. CA507-SB21

Date/Time Collected: 2-10-13 / 1315

Personnel: MC, DC, AR

Sample Method/Depth: Direct Push w/ macro core / 10.0-15.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	11.5

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - ~~light tan, moist,~~ ML Hard, moist, light tan

GENERAL COMMENTS

- PID reading >10 instigated sampling another interval deeper (15'-20' bgs)

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-S821-020

Boring No. CA507-S821

Date/Time Collected: 2-10-13 / 1345

Personnel: ML, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 15-20

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC'
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 15-20 Soil Description: Sandy SILT (ML) - Stiff, moist, light tan, medium plastic

GENERAL COMMENTS

- Unplanned sample instigated by high PID reading from 10'-15' bgs.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS22-001

Boring No. CA507-SB22

Date/Time Collected: 2-13-13 / 1415

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 0-05

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO) NO

Sample QC Duplicate: (YES) NO

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO. CA507-SS522-001

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SAND (SP) - loose, dry, red, fine

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB22-004

Boring No. CA507-SB22

Date/Time Collected: 2-13-13 / 1422

Personnel: JC mc

Sample Method/Depth: Direct Push w/macro core / 0.5-4.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC'
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.2

SOIL DESCRIPTION

Depth: 0.5-4.5 Soil Description: Sandy SILT (ML) - Hard, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB22-010

Boring No. CA507-SB22

Date/Time Collected: 2-13-13 / 1430

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 5.0-9.7

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5.0-9.7 Soil Description: Sandy SILT(ml) - stiff, moist, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB22-015

Boring No. CA507-SB22

Date/Time Collected: 2-13-13 / 1438

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.1

SOIL DESCRIPTION

Depth:	Soil Description:
10.0-13.0	Sandy SILT (ML) - very stiff, moist, light tan
13.0-15.0	Silty SAND (SM) - loose, dry - light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS23-001

Boring No. SS23

Date/Time Collected: 2-13-13 @ 0820

Personnel: JA/RH

Sample Method/Depth: Direct Push w/macro core (0-0.5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ND

SOIL DESCRIPTION

Depth: 0-0.5'

Soil Description: Silty SAND (SM) with GRAVEL (GP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB23-005

Boring No. SB23

Date/Time Collected: 2-13-13 @ 0836

Personnel: JA/RH

Sample Method/Depth: Direct Push w/macro core (0-5')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0-5'	0.8'-3.9' Sandy SILT (ML)
	3.9'-5.0' Silty SAND (SM)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB23-010

Boring No. SB23

Date/Time Collected: 2-13-13 @ 0844

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		TPH-GRO / PCBs, Lead

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) calcareous w/ some sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB23-015

Boring No. SB23

Date/Time Collected: 2-13-13 @ 0853

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015c)
		Site related SVOC
		Lead, PCBs
2 x 40mL VOA	MeOH	TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS24-001

Boring No. CA507-SB24

Date/Time Collected: 2-13-13 / 1055

Personnel: JC MC

Sample Method/Depth: Hand trowel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SS524-001

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.6

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SAND (SP) - loose, moist, light brown, fine grained

GENERAL COMMENTS

collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB24-005

Boring No. CA507-SB24

Date/Time Collected: 2-13-13 / 1108

Personnel: JL MC

Sample Method/Depth: Direct Push w/macro core / 05-4.6

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 1.6

SOIL DESCRIPTION

Depth:	Soil Description:
0.5 - 1.0	SAND (SP) - loose, moist, light brown
1.0 - 4.6	Sandy SILT (ML) - very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB24-010

Boring No. CA507-SB24

Date/Time Collected: 2-13-13 / 1114

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: 0.6

SOIL DESCRIPTION

Depth: 5.0-10.0 Soil Description: Sand SILT(ML) - very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB24-015

Boring No. CA507-SB24

Date/Time Collected: 2-13-13 / 1130

Personnel: JL MC

Sample Method/Depth: Direct Push w/macro core / 10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.3

SOIL DESCRIPTION

Depth:	Soil Description:
10.0-~~10.2~~ 11.2	Sandy SILT (ML) - very stiff, moist, light brown
11.2-13.1	Silty CLAY (CL) - Hard, moist, brown
13.1-15.0	SILT (ML) - Hard, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C507 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS25-001

Boring No. SS25

Date/Time Collected: 2-13-13 @ 0940

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro core (0-0.5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC, PCBs
		Lead
2 x 40mL VOA	2 MeOH	TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-0.5'

Soil Description: Silty SAND (SM) and GRAVEL (GP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB25-005

Boring No. SB25

Date/Time Collected: 2-13-13 @ 1008

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MACro core 0-5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		PCBs/Lead
2 x 40 mL VOAs	MeOH	TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 0.5'-5.0' Soil Description: Sandy SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB25-010

Boring No. SB25

Date/Time Collected: 2-13-13 @ 1019

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MAcro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		PCBs / Lead
2 x 40ml VOAs	MeOH	TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: Sandy SILT (ML) Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C507 Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB25-015

Boring No. SB25

Date/Time Collected: 2-13-13 @ 1032

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MAcro core (10'-15')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC,
		PCB / Lead
2 x 40 ML VOAs	MeOH	TPH - GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: 10'-12' Sandy SILT (ML) w/fine caliche nodules
12'-15' SAND (SP) w/ trace silt and fine caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS26-001

Boring No. CA507-SB26

Date/Time Collected: 2-6-13/1335

Personnel: MC, JC

Sample Method/Depth: hand trowel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background NR

Breathing zone NR

Boring NR

Headspace NR

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SAND (SP) - Loose, moist, brown, fine grained

GENERAL COMMENTS

* Collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB26-004

Boring No. CA507-SB26

Date/Time Collected: 2-6-13 / 1347

Personnel: MCJC

Sample Method/Depth: Direct Push w/ macro core / 0.5-4.8

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-2.2	SAND(SP)-Loose, moist, brown, fine
2.2-4.5	Sandy CLAY(CL)-Very stiff, moist, brown, med plastic
4.5-4.8	Sandy SILT(ML)-Medium stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB26-010

Boring No. CA507-SB26

Date/Time Collected: 2-6-13 / 1400

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core / 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: (YES) NO

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO. CA507-SB526-010

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Medium stiff, moist, brown, med plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB26-015

Boring No. CA507-SB26

Date/Time Collected: 2-6-13 / 1425

Personnel: MC, JC

Sample Method/Depth: Direct Push / w/ macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Medium stiff, moist, light tan, medium plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB26-020

Boring No. CA507-SB26

Date/Time Collected: 2-6-13 / 1433

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core / 15-20

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: ND

SOIL DESCRIPTION

Depth: 15-20

Soil Description: Sandy SILT (ML) - Stiff, moist, light tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB27-005

Boring No. CA507-SB27

Date/Time Collected: 2-12-13 / 0805

Personnel: JC mc

Sample Method/Depth: Direct Push w/ macro core 1.0-5.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.9

SOIL DESCRIPTION

Depth:	Soil Description:
0-1.0	Concrete
1.0-5.0	Sandy SILT (ML) - stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB27-010

Boring No. CA507-SB27

Date/Time Collected: 2-12-13 / 0812

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3.3

SOIL DESCRIPTION

Depth: 5.0-10.0 Soil Description: Sandy SILT (ML) - stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB27-015

Boring No. CA507-SB27

Date/Time Collected: 2-12-13 / 0818

Personnel: JC MC

Sample Method/Depth: Direct Push w/ macro core / 10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: 1.1

SOIL DESCRIPTION

Depth: 10.0-15.0 Soil Description: SILT (ML) - very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB28-005

Boring No. CA507-SB28

Date/Time Collected: 2-12-13/ 0840

Personnel: MC, SC, AR

Sample Method/Depth: Direct Push w/macro core / 1-5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3.7

SOIL DESCRIPTION

Depth: 1-5

Soil Description: Sandy SILT (ML) - Very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB28-010

Boring No. CA507-SB28

Date/Time Collected: 2-12-13/0845

Personnel: ML, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	5.2

SOIL DESCRIPTION

Depth: 5-10 Soil Description: Sandy SILT (ML) - Very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB28-015

Boring No. CA507-SB28

Date/Time Collected: 2-12-13/ 0852

Personnel: MC, JL, AR

Sample Method/Depth: Direct Push w/macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
6 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC'
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3.2

SOIL DESCRIPTION

Depth: 10-15 Soil Description: SILT (ML) - Very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB29-005

Boring No. CA507-SB29

Date/Time Collected: 2-11-13 / 1540

Personnel: MCJC, AR

Sample Method/Depth: Direct Push w/macro core / 1-5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 1.3

SOIL DESCRIPTION

Depth: 1-5

Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB29-010

Boring No. CA507-SB29

Date/Time Collected: 2-11-13/1545

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 0.6

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB29-015

Boring No. CA507-SB29

Date/Time Collected: 2-11-13 / 1555

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.5

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB30-005

Boring No. CA507-SB30

Date/Time Collected: 2-12-13 / 0920

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 0.0-5.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.7

SOIL DESCRIPTION

Depth:	Soil Description:
0.0-1.0	Concrete
1.0-5.0	Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB30-010

Boring No. CA507-SB30

Date/Time Collected: 2-12-13 / 0925

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.5

SOIL DESCRIPTION

Depth: 5.0-10.0 Soil Description: Sandy SILT (ML) - very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-CS07, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB30-015

Boring No. CA507-SB30

Date/Time Collected: 2-12-13 / 0940

Personnel: JR MC

Sample Method/Depth: Direct Push w/ macro core / 10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
6 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.9

SOIL DESCRIPTION

Depth: 10.0-15.0 Soil Description: SILT (ML) - very stiff, dry, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB31-005

Boring No. CA507-SB31

Date/Time Collected: 2-8-13 / 0811

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 1-5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: (YES) NO

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO. CA507-SB531-005

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 1-5

Soil Description: Sandy SILT (ML) - Stiff, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB31-010

Boring No. CA507-SB31

Date/Time Collected: 2-8-13/ 0820

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 5-10

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Silty SAND (SP) - Hard, moist, light tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS32-001

Boring No. CA507-SB32

Date/Time Collected: 2-13-13/0914

Personnel: MC, JC, AR

Sample Method/Depth: hand trowel ~~Direct Push w/macro core~~ 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs 8082A

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.3

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Silty SAND (SM) - Loose, dry, brown, fine

GENERAL COMMENTS

* collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB32-004

Boring No. CA507-SB32

Date/Time Collected: 2-13-13/0920

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/0.5-4

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.3

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-2	Silty SAND (SM) - Loose, dry, brown, fine
2-4	Sandy SILT (ML) - Very stiff, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB32-009

Boring No. CA507-SB32

Date/Time Collected: 2-13-13/0927

Personnel: MC, JL, AR

Sample Method/Depth: Direct Push w/macro core/5-9

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 0.3

SOIL DESCRIPTION

Depth: 5-9

Soil Description: Sandy SILT (ML) - Stiff, dry, light tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB32-015

Boring No. CA507-SB32

Date/Time Collected: 2-13-13 / 0934

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push / w/ macro core / 10-15

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 1.1

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Stiff, dry, brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB32-020

Boring No. CA507-SB32

Date/Time Collected: 2-13-13/0943

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/15-20

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Sample QC Duplicate: YES NO (circled)

MS/MSD Requested: YES NO (circled)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.8

SOIL DESCRIPTION

Depth:	Soil Description:
15-18.5	Sandy SILT (ML) - Hard, dry, brown
18.5-20	SAND (SP) - Loose, moist, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS33-001

Boring No. CA507-SB33

Date/Time Collected: 2-13-13/ 0955

Personnel: MC, JC, AR

Sample Method/Depth: ~~Direct Push w/ macro core~~ Hand Tool / 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 0.7

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SAND (SP) - Loose, moist, reddish brown, fine

GENERAL COMMENTS

collected with hand travel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB33-004

Boring No. CA507-SB33

Date/Time Collected: 2-13-13/1000

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/0.5-4

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 0.7

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-1	SAND (SP) - Loose, moist, reddish brown, fine
1-4	Gravelly SILT (ML) - Very stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB33-010

Boring No. CA507-SB33

Date/Time Collected: 2-13-13/1009

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 5-9.7

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 0.4

SOIL DESCRIPTION

Depth: 5-9.7

Soil Description: SILT(ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB33-015

Boring No. CA507-SB33

Date/Time Collected: 2-13-13/1016

Personnel: JC, MC, AR

Sample Method/Depth: Direct Push w/macro core/10-15

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 3.1

SOIL DESCRIPTION

Depth: 10-15

Soil Description: SILT(ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB33-020

Boring No. CA507-SB33

Date/Time Collected: 2-13-13/ 1020

Personnel: JC, ML, AR

Sample Method/Depth: Direct Push w/macro core/15-20

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Sample QC Duplicate: YES NO (circled)

MS/MSD Requested: YES NO (circled)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 3.7

SOIL DESCRIPTION

Depth: 15-20 Soil Description: Clayey SILT (ML) - Very stiff, moist, light brown, med plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS34-001

Boring No. CA507-SB34

Date/Time Collected: 2-13-13 0833

Personnel: JC MC

Sample Method/Depth: Hand trowel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.4

SOIL DESCRIPTION

Depth: 0.0 - 0.5 Soil Description: Sandy SILT (ML) - stiff, moist, light brown

GENERAL COMMENTS

Collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB34-004

Boring No. CA507-SB34

Date/Time Collected: 2-13-13 / 0842

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core 0.5-3.8

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.4

SOIL DESCRIPTION

Depth: 0.5-3.8 Soil Description: Sandy SILT (ML) - stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB34-010

Boring No. CA507-SB34

Date/Time Collected: 2-13-13 / 0850

Personnel: SC mc

Sample Method/Depth: Direct Push w/macro core / 5.0/10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB534-010

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.3

SOIL DESCRIPTION

Depth: 5.0-10.0 Soil Description: Sandy SILT (ML) - very stiff, light tan, moist, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB34-015

Boring No. CA507-SB34

Date/Time Collected: 2-13-13/0857

Personnel: SC MC

Sample Method/Depth: Direct Push w/macro core/10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.5

SOIL DESCRIPTION

Depth: 10.0-15.0 Soil Description: Sandy SILT (ML) - very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS35-001

Boring No. CA507-SB35

Date/Time Collected: 2-7-13 / 0925

Personnel: MG, JG, AR

Sample Method/Depth: Hand trowel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown, low plastic

GENERAL COMMENTS

* collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB35-004

Boring No. CA507-SB35

Date/Time Collected: 2-7-13 / 955

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 0.5-4

Sample Media: ~~SOIL~~ SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB535-004

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0.5-4 Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-CS07, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB35-010

Boring No. CA507-SB35

Date/Time Collected: 2-7-13 / 1005

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 5-10

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 5 - 10

Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB35-015

Boring No. CA507-SB35

Date/Time Collected: 2-7-13 / 1013

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Stiff, moist, light tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB35-020

Boring No. CA507-SB35

Date/Time Collected: 2-7-13 / 1033

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 15-20

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth:	Soil Description:
15-19	SAND(SP) - Loose, moist, tan, fine
19-20	Sandy CLAY(CL) - Very stiff, moist, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB36-001

Boring No. SS36

Date/Time Collected: 2-4-13 @ 1330

Personnel: J. Allen, R. Herold

Sample Method/Depth: ~~Direct Push w/ micro core~~ (0-0.5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

Hand Trowell

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 0-0.5'

Soil Description: Sandy SILT and GRAVEL (ML-GP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB36-005

Boring No. SB36

Date/Time Collected: 2-4-13 @ 1306

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core (0-5')

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Split Sample NO.

Sample QC Duplicate: YES NO (circled)

Duplicate Sample NO.

MS/MSD Requested: YES NO (circled)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: SILT to Sandy SILT (CL-ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB36-010

Boring No. SB36

Date/Time Collected: 2-4-13 @ 1320

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth:	Soil Description:
5'-10'	5'-8.5' SILT (ML)
	8.5'-10.0' Clayey Sandy SILT (ML) - Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS37-001

Boring No. SS37

Date/Time Collected: 2-4-13 @ 1223

Personnel: J. Allen, R. Herold

Sample Method/Depth: ~~Direct Push w/macro core~~ 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

Hand Trowell

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 0-0.5'

Soil Description: SILT (CL) with some clay

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB37-005

Boring No. SB37

Date/Time Collected: 2-4-13 @ 1242

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core (0-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) ~~NO~~

Duplicate Sample NO. ~~CA507-SB37-004~~ CA507-SB537-005 @ false time 0700

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth:	Soil Description:
0-5.0'	0-3.3' SILT (CL) with some clay
	3.3'-5.0' Sandy SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB37-010

Boring No. SB37

Date/Time Collected: 2-4-13 @ 1251

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth:	Soil Description:
5'-10'	5'-7.5' Sandy SILT to Silty SAND (ML-SM)
	7.5'-10.0' Clayey Sandy SILT (ML-CL)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS38-001

Boring No. CA507-SB38

Date/Time Collected: 2-4-13/1405

Personnel: MC, JC

Sample Method/Depth: Hand Trowel ~~Direct Push w/macro core~~ 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND ~~10.6mc~~

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SILT (ML) - Stiff, dry, brown

GENERAL COMMENTS

* collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB38-004

Boring No. CA507-SB38

Date/Time Collected: 2-4-13/1420

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/0.5-4

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB538-004

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 802 Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	10.6

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-3.3	SILT (ML) - Stiff, dry, brown
3.3-4.0	SAND (SP) - Loose, dry, reddish brown, fine-grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB38-009

Boring No. CA507-~~SB38~~ SB38

Date/Time Collected: 2-4-13/1430

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/5-9.1

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	46.0

SOIL DESCRIPTION

Depth: 5-9.1 Soil Description: SAND(SP) - Loose, dry, reddish brown, fine-grained

GENERAL COMMENTS

- high HS reading initiated another, deeper sample

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB38-014

Boring No. CA507-SB38

Date/Time Collected: 2-4-13/1450

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/10-14

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3.4

SOIL DESCRIPTION

Depth: 10-14 Soil Description: SAND (SP) - Loose, dry, tan, fine-grained

GENERAL COMMENTS

- instigated by high headspace reading at previous depth (5-10' bgs)

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS39-001

Boring No. CA507-SB39

Date/Time Collected: 2-4-13 / 1310

Personnel: MGJC

Sample Method/Depth: Hand trowel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SAND(SP) - Loose, dry, brown, fine-grained

GENERAL COMMENTS

collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB39-005

Boring No. CA507-SB39

Date/Time Collected: 2-4-13/1320

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/0.5-4.7

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB39-005

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0.5-4.7 Soil Description: Clayey SILT (ML) - Hard, dry, dark brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB39-010

Boring No. CA507-SB39

Date/Time Collected: 2-4-13/1340

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: SAND (SP) - Loose, dry, light brown, fine-grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB40-010

Boring No. CA507-SB40

Date/Time Collected: 2-5-13 / 1330

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB540-010

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~2~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.7

SOIL DESCRIPTION

Depth: 5.0-10.0 Soil Description: Clayey SILT (ML) - Hard, moist, brown.

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB40-015

Boring No. CA507-SB40

Date/Time Collected: 2-5-13 / 1340

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2.1

SOIL DESCRIPTION

Depth:	Soil Description:
10.0-10.4	SILT (ML) - very stiff, moist, light tan.
10.4-13.0	SAND (SP) - loose, moist, reddish brown
13.0-15.0	Clayey SILT (ML) - stiff moist light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB41-010

Boring No. CA507-SB41

Date/Time Collected: 2-6-13/1140

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Stiff, dry, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB41-015

Boring No. CA507-SB41

Date/Time Collected: 2-6-13/1146

Personnel: ML, JC

Sample Method/Depth: Direct Push 4"/macro core/10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
10-14	SILT (ML) - Stiff, dry, brown, low plastic
14-15	SAND (SP) - Loose, moist, brown, fine

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB42-010

Boring No. CA507-SB42

Date/Time Collected: 2-6-13 / 1307

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core / 5-10

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO. CA507-SB542-010

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6-~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4-~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4-~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Medium stiff, light tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB42-015

Boring No. CA507-SB42

Date/Time Collected: 2-6-13 / 1315

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
10-14	Sandy SILT (ML) - Hard, dry, brown, low plastic
14-15	SAND (SP) - Loose, moist, brown, fine

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB43-010

Boring No. CA507-SB43

Date/Time Collected: 2-7-13 / 1500

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5-9	Sandy SILT (ML) - Hard, moist, light tan, low plastic
9-10	Sandy CLAY (CL) - Hard, moist, light tan, ~~low~~ med plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB43-015

Boring No. CA507-SB43

Date/Time Collected: 2-7-13 / 1508

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
10-14	Sandy SILT (ML) - Very stiff, moist, light tan
14.4-15	SAND (SP) - Loose, moist, dark tan, fine grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB44-010

Boring No. CA507-SB44

Date/Time Collected: 2-5-13 / 1415

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2.0

SOIL DESCRIPTION

Depth:	Soil Description:
5.0-7.2	SAND (SP) - medium dense, with silt
7.2-10.0	SILT (ML) - stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB44-015

Boring No. CA507-SB44

Date/Time Collected: 2-5-13 / 1420

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth:	Soil Description:
10.0-14.5	SILT-(ML) - Stiff, moist, light tan.
14.5-15.0	SAND (SP) loose, moist, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB45-010

Boring No. CA507-SB45

Date/Time Collected: 2-5-13 / 1450

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: ND

SOIL DESCRIPTION

Depth:	Soil Description:
5.0-8.0	SILT (ML) - Soft, dry, brown
8.0-10.0	Silty SAND (SM) - dense, dry, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB45-015

Boring No. CA507-SB45

Date/Time Collected: 2-5-13 / 1455

Personnel: MC, JC

Sample Method/Depth: Direct Push w/macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
10-10.6	Silty SAND (SM) – Dense, dry, light brown, fine grained
10.6-15	SILT (ML) – Stiff, dry, light tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB46-010

Boring No. CA507-SB46

Date/Time Collected: 2-10-13/1615

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Stiff, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB46-015

Boring No. CA507-SB46

Date/Time Collected: 2-10-13/1625

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/10-15

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT(ML) - Stiff, moist, light tan, low plastic, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB47-010

Boring No. CA507-SB47

Date/Time Collected: 2-10-13/1705

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB47-015

Boring No. CA507-SB47

Date/Time Collected: 2-10-13/ 1712

Personnel: ML, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: ~~SOIL~~ SEDIMENT SLUDGE

Sample QA Split: YES ~~NO~~

Split Sample NO.

Sample QC Duplicate: YES ~~NO~~

Duplicate Sample NO.

MS/MSD Requested: YES ~~NO~~

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Very stiff, moist, light tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-CS07, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB48-005

Boring No. CA507-SB48

Date/Time Collected: 2-8-13/ 0850

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/1-5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
1-4	Sandy CLAY (CL) - Hard, moist, brown, med plastic
4-5	Sandy SILT (ML) - Very stiff, moist, light tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-S848-010

Boring No. CA507-S848

Date/Time Collected: 2-8-13/0900

Personnel: MGJC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
6 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5-9	Sandy SILT (ML) - Very stiff, moist, light tan, low plastic
9-10	Sandy CLAY (CL) - Hard, moist, tan, med plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB49-004

Boring No. CA509-SB49

Date/Time Collected: 2-8-13 / 1425

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 0.5-4

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB549-004

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	10.8

SOIL DESCRIPTION

Depth: 0.5-4 Soil Description: Sandy SILT(ML) - Hard, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB49-010

Boring No. CA507-SB49

Date/Time Collected: 2-8-13/1438

Personnel: JC, MC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	119

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Stiff, moist, light tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB49-015

Boring No. CA509-SB49

Date/Time Collected: 2-8-13/1448

Personnel: JC, AR, MC

Sample Method/Depth: Direct Push w/macro core/10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	261

SOIL DESCRIPTION

Depth: 10-15 Soil Description: Sandy SILT (ML) - Hard, moist, light brown, med plastic

GENERAL COMMENTS

- high headspace reading instigated another sample at a deeper interval (15'-20')

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB49-020

Boring No. CA507-SB49

Date/Time Collected: 2-8-13/ 1515

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 15.0'-20.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.3

SOIL DESCRIPTION

Depth: 15-20 Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown, low plastic

GENERAL COMMENTS

* Unplanned sample, instigated by PID headspace hit at previous interval (10-15' bgs)

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS50-001

Boring No. SS50

Date/Time Collected: 2-12-13 @ 1458

Personnel: JA/RH

Sample Method/Depth: Direct Push w/macro core (0-0.5)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	
Boring	
Headspace	

SOIL DESCRIPTION

Depth: 0-0.5'

Soil Description: Sandy SILT (ML) w/ some gravel

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB50-005

Boring No. SB50

Date/Time Collected: 2-12-13 @ 1515

Personnel: JA/RH

Sample Method/Depth: Direct Push w/macro core (0-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Sandy SILT (ML) (FILL)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB50-010

Boring No. SB50

Date/Time Collected: 2-12-13 @ 1526

Personnel: JA/RH

Sample Method/Depth: Direct Push w/macro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth:	Soil Description:
5'-10'	5'-9.4' Silty SAND (SM) Fill
	9.4'-10.0' SILT (ML) Calcareous, Native

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB50-015

Boring No. SB50

Date/Time Collected: 2-12-13 @ 1540

Personnel: JA/RH

Sample Method/Depth: Direct Push w/macro core / 10.0'-15.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 10'-15' Soil Description: SILT (ML) CALCAREOUS

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS51-001

Boring No. CA507-SB51

Date/Time Collected: 2-13-13 / 1150

Personnel: JC MC

Sample Method/Depth: Hand trowel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SAND (SP) - loose, moist, light brown, fine grained

GENERAL COMMENTS

Collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB51-005

Boring No. CA507-SB51

Date/Time Collected: 2-13-13 / 1205

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core 0.5-4.6

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.2

SOIL DESCRIPTION

Depth: 0.5-4.6 Soil Description: Sandy SILT (ML) - stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB51-010

Boring No. CA507-SB51

Date/Time Collected: 2-13-13 / 1216

Personnel: JC ML

Sample Method/Depth: Direct Push w/macro core / 50-9.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background

Breathing zone

Boring

Headspace

SOIL DESCRIPTION

Depth: 5.0-9.5 Soil Description: Sandy SILT (ML) - stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB51-015

Boring No. CA507-SB51

Date/Time Collected: 2-13-13 / 1225

Personnel: JC mc

Sample Method/Depth: Direct Push w/macro core / 10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.1

SOIL DESCRIPTION

Depth: 10.0-15.0 Soil Description: Sandy SILT (ML) - very stiff, moist, mottled light tan / light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS52-001

Boring No. CA507-SB52

Date/Time Collected: 2-11-13/ 0750

Personnel: MC, JC, AR

Sample Method/Depth: Hand travel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 0-0.5

Soil Description: Sandy SILT (ML) - Hard, moist, light brown, low plastic

GENERAL COMMENTS

- Collected with a hand travel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB52-004

Boring No. CA507-SB52

Date/Time Collected: 2-11-13 / 0820

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / ~~0820~~ MC 0.5-4

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 336

SOIL DESCRIPTION

Depth: 0.5-4 Soil Description: Sandy SILT (ML) - Hard, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB52-010

Boring No. CA507-SB52

Date/Time Collected: 2-11-13/ 0832

Personnel: MJC, AR

Sample Method/Depth: Direct Push w/macro core / 5-10

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 175

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB52-015

Boring No. CA507-SB52

Date/Time Collected: 2-11-13 / 0840

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: 205

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Hard, moist, light tan

GENERAL COMMENTS

- High PID reading questionable (no odor), but additional samples from deeper intervals were collected to confirm extent of contamination

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB52-020

Boring No. CA507-SB52

Date/Time Collected: 2-11-13 / 0910

Personnel: MC, JL, AR

Sample Method/Depth: Direct Push w/ macro core / 15-20

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 0.20

SOIL DESCRIPTION

Depth: 15-20 Soil Description: SILT(ML) - Very stiff, moist, light tan

GENERAL COMMENTS

Instigated by high PID reading

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB52-025

Boring No. CA507-SB52

Date/Time Collected: 2-11-13 / 0930

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 20-25

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
20-21.5	Sandy SILT (ML) - Very stiff, moist, light brown
21.5-25	Silty SAND (SM) - Loose, moist, light brown, fine

GENERAL COMMENTS

Instigated by high headspace reading

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB52-030

Boring No. CA507-SB52

Date/Time Collected: 2-11-13 / 1005

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 25-30

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Split Sample NO.

Sample QC Duplicate: YES NO (circled)

Duplicate Sample NO.

MS/MSD Requested: YES NO (circled)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	175

SOIL DESCRIPTION

Depth:	Soil Description:
25-29	Silty SAND (SM) - Loose, moist, light brown
29-30	SILT (ML) - Stiff, dry, light tan

GENERAL COMMENTS

Instigated by high headspace reading.

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB53-005

Boring No. CA507-SB53

Date/Time Collected: 2-7-13 / 1415

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 1-5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
MC ~~ND~~ 1-5	Sandy SILT (ML) - Stiff, moist, brown, low plastic
MC ~~ND~~	
MC ~~ND~~	
MC ~~ND~~	

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB53-010

Boring No. CA507-SB53

Date/Time Collected: 2-7-13 / 1425

Personnel: ML, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 5-10

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - very stiff, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS54-001

Boring No. CA507-SB54

Date/Time Collected: 2-8-13 / 0755

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5

Soil Description: Sandy SILT (ML) - Medium dense, dry, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB54-005

Boring No. SB54

Date/Time Collected: 2-4-13 @ 1538

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core (0-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth:	Soil Description:
0-5'	0-2.5' SILT (CL) - top soil
	2.5'-5.0' SILT (ML) with caliche mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB54-010

Boring No. SB54

Date/Time Collected: 2-4-13 @ 1550

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) ~~NO~~

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~8~~ x 40ml VOA	6 ~~2~~-water 3~~X~~-MeOH 4°	BTEX, naphthalene (8260B)
6 ~~2~~ x 40ml VOA	6 ~~2~~- MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) - with white caliche mottling and very fine sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB55-005

Boring No. CA507-SB55

Date/Time Collected: 2-7-13 / 1340

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 0-5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
0-0.7	Asphalt
0.7-5	Sandy SILT (ML) - stiff, moist, brown, medium plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB55-010

Boring No. CA507-SB55

Date/Time Collected: 2-7-13 / 1347

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Stiff, moist, light tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS56-001

Boring No. CA507-SB56

Date/Time Collected: 2-13-13/1450

Personnel: MC, JC, AR

Sample Method/Depth: Hand trowel ~~Direct Push w/ macro core~~ /0-0.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Sandy SILT (ML)

GENERAL COMMENTS

Collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB56-004

Boring No. CA507-SB56

Date/Time Collected: 2-13-13 / 1455

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 0.5-4.0

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO. CA507-SB556-004

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6-3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4-2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4-2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0.5-4 Soil Description: Sandy SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB56-010

Boring No. CA507-SB56

Date/Time Collected: 2-13-13/1502

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.1

SOIL DESCRIPTION

Depth:	Soil Description:
5-7	Sandy SILT (ML)
7-8.5	SAND (SP)
8.5-10	SILT (ML) - with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS57-001

Boring No. CA507-SB57

Date/Time Collected: 2-7-13/ 1052

Personnel: MC, JC, AR

Sample Method/Depth: ~~Direct Push w/macro core~~ / 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: Sandy SILT (ML) - Stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB57-004

Boring No. CA507-SB57

Date/Time Collected: 2-7-13 / 1105

Personnel: ML, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 0.5-4

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB57-004

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~2~~ x 40ml VOA	4 ~~2~~-water, 2 ~~0~~-MeOH 4°	BTEX, naphthalene (8260B)
4 ~~2~~ x 40ml VOA	4 ~~2~~- MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0.5-4

Soil Description: Sandy SILT (ML) - Stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB57-010

Boring No. CA507-SB57

Date/Time Collected: 2-7-13/1115

Personnel: ML, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5-9.3	Sandy SILT (ML) - Stiff, moist, light brown
9.3-10	SAND (SP) - Loose, moist, light brown, fine

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB58-004

Boring No. CA507-SB58

Date/Time Collected: 2-7-13/0818

Personnel: ML, UL, AR

Sample Method/Depth: Direct Push w/macro core / ~~0.5~~ 0.5-4 ML

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth:	Soil Description:
ML ~~0-0.5~~	~~Asphalt~~ ML
0.5-1.4	SAND (SP) - Loose, moist, reddish brown, fine
1.4-4.0	Clayey SILT (ML) - Stiff, moist, brown, medium plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB58-010

Boring No. CA507-SB58

Date/Time Collected: 2-7-13/0830

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Split Sample NO.

Sample QC Duplicate: YES NO (circled)

Duplicate Sample NO.

MS/MSD Requested: YES NO (circled)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5-8.5	SILT(ML) - Stiff, moist, light tan, mod plasticity
8.5-10	Silty SAND (SM) - Loose, moist, reddish brown, fine

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS59-001

Boring No. CA507-SB59

Date/Time Collected: 2-7-13 / 0845

Personnel: MC, JC, AR

Sample Method/Depth: hand trowel ~~Direct Push w/ macro core~~ / 0-1

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 0-1

Soil Description: Sandy SILT (ML) - Stiff, moist, light brown, low plastic

GENERAL COMMENTS

- collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB59-004

Boring No. CA507-SB59

Date/Time Collected: 2-7-13 / 0900

Personnel: MG, JC, AR

Sample Method/Depth: Direct Push w/macro core / ~~0~~ 10'-4'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: ~~0~~ 10'-4

Soil Description: Sandy SILT (ML) - Stiff, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB59-010

Boring No. CA507-SB59

Date/Time Collected: 2-7-13/0915

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 5-10 Soil Description: Sandy SILT (ML) - Very stiff, moist, light tan, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS60-001

Boring No. CA507-SB60

Date/Time Collected: 2-7-13/1245

Personnel: MC, JC, AR

Sample Method/Depth: Hand trowel ~~Direct Push w/ macro core~~ / 0-0.5

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: ~~Sandy mc~~ 0-0.5

Soil Description: Sandy SILT (ML) - stiff, moist, light brown, low plastic

GENERAL COMMENTS

collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB60-004

Boring No. CA507-SB60

Date/Time Collected: 2-7-13/ 1255

Personnel: MC, SC, AR

Sample Method/Depth: Direct Push w/macro core / 0.5-4

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 0.5-4 Soil Description: ~~Silty SAND~~ Sandy SILT (ML) - Stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-CS07, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB60-010

Boring No. CA507-SB60

Date/Time Collected: 2-7-13/1305

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Hard, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS01-001

Boring No. SS01

Date/Time Collected: 2-4-13 @ 1415

Personnel: J Allen, R Herold

Sample Method/Depth: Direct Push w/ macro core (0-0.5)

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

Hand Trowel

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	NP
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-0.5'

Soil Description: GRAVEL and Silty SAND (SM)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB01-005

Boring No. SB01

Date/Time Collected: 2-4-13 @ 1421

Personnel: J Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core/0.5'-5.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0.5'-5.0' Soil Description: SILT (CL) - some very fine sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB01-010

Boring No. SB01

Date/Time Collected: 2-4-13 @ 1430

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: (YES) NO

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) with caliche mottling and fine caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS62-001

Boring No. SS62

Date/Time Collected: 2-4-13 @ 0930

Personnel: J. Allen, R. Herold

Sample Method/Depth: ~~Direct Push w/ macro core~~ (0-0.5') Hand Trowell

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-0.5' Soil Description: Sandy SILT (ML) with surface gravel

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB62-005

Boring No. SB62

Date/Time Collected: 2-4-13 @ 1000

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core (0-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Sandy SILT (ML), Topsoil with fine sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB62-010

Boring No. SB62

Date/Time Collected: 2-4-13 @ 1005

Personnel: J Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core (5-10)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

	Sample Container	Preservative	Analysis Requested
9	~~2~~ x 40ml VOA	6 ~~2~~-water 3 ~~1~~-MeOH 4°	BTEX, naphthalene (8260B)
6	~~2~~ x 40ml VOA	(6 ~~2~~- MeOH 4°	TPH-GRO (8015C)
4	~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
			Site related SVOC
			Lead (6020A/7471B)
			PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) with some caliche mottling and trace fine caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SS63-001

Boring No. SS63

Date/Time Collected: 2-4-13 @ 1040

Personnel: J. Allen, R. Herold

Sample Method/Depth: ~~Direct Push w/ macro core~~ (0-0.5')

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Hand Trowel

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-0.5' Soil Description: SILT (CL) - Top Soil

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB63-005

Boring No. SB63

Date/Time Collected: 2-4-13 @ 1100

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/macro core (0-5')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: 0-3.4 ft bgs SILT (CL) - Top soil
3.4-5.0 ft bgs SILT (ML) - Calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB63-010

Boring No. SB63

Date/Time Collected: 2-4-13 @ 1110

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ macro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~2~~ x 40ml VOA	6 ~~2~~-water 3 ~~1~~-MeOH 4°	BTEX, naphthalene (8260B)
6 ~~2~~ x 40ml VOA	6 ~~2~~-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) - calcareous, becomes clayey @ 8.0 ft bgs

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB64-010

Boring No. CA507-SB64

Date/Time Collected: 2-8-13 / 0940

Personnel: MC, JL, AR

Sample Method/Depth: Direct Push w/macro core / 5-10

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Sample QC Duplicate: YES (circled) NO

MS/MSD Requested: YES NO (circled)

Split Sample NO.

Duplicate Sample NO. CA507-SB564-010

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
~~2~~ 4 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: ~~ND~~ 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB64-015

Boring No. CA507-SB64

Date/Time Collected: 2-8-13 / 0950

Personnel: MC, JL, AR

Sample Method/Depth: Direct Push w/macro core / 10-15

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB65-010

Boring No. CA507-SB65

Date/Time Collected: 2-8-13 / 1025

Personnel: ML, JC, AR

Sample Method/Depth: Direct Push w/macro core / 5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT(ml) - Very stiff, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB65-015

Boring No. CA507-SB65

Date/Time Collected: 2-8-13 / 1035

Personnel: MG, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
a 3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
b 2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 10 - 15 Soil Description: Sandy SILT (ML) - Very stiff, dry, light tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB66-010

Boring No. CA507-SB66

Date/Time Collected: 2-8-13/1340

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5-9.2	Sandy SILT (ML) - Stiff, dry, light tan, low plastic
9.2-10	Silty SAND (SM) - Loose, moist, tan, fine

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB66-015

Boring No. CA507-SB66

Date/Time Collected: 2-8-13 / 1400

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Silty SAND (SM) - Loose, moist, tan, fine-grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB67-010

Boring No. CA507-SB67

Date/Time Collected: 2-8-13 / 1105

Personnel: JC MC AR

Sample Method/Depth: Direct Push w/macro core / 5.0-10.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB567-010

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 5.0-10.0 Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB67-015

Boring No. CA507-SB67

Date/Time Collected: 2-8-13 / 1115

Personnel: JC MC AR

Sample Method/Depth: Direct Push w/macro core / 100-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
10.0-12.0	Sandy SILT (ML) - stiff, moist, light tan
12.0-15.0	Silty SAND (SP) - loose, moist, light tan fine grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB68-010

Boring No. CA507-SB68

Date/Time Collected: 2-10-13/1505

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5-8.5	Sandy SILT(ML) - Very stiff, moist, light tan, with calcareous nodules
8.5-10	SILT(ML) - Stiff, dry, light tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB68-015

Boring No. CA507-SB68

Date/Time Collected: 2-10-13/1515

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/10-15

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.9

SOIL DESCRIPTION

Depth: 10-15

Soil Description: SILT(ML) - Stiff dry, light tan, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB69-010

Boring No. CA507-SB69

Date/Time Collected: 2-10-13/1420

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.7

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB69-015

Boring No. CA507-SB69

Date/Time Collected: 2-10-13/1430

Personnel: MCN, AR

Sample Method/Depth: Direct Push w/macro core/10-15

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	9.7

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Stiff, moist, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB70-010

Boring No. CA507-SB70

Date/Time Collected: 2-12-13 / 1445

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 5-9.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 5-9.5 Soil Description: Sandy SILT (ML) - Stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB70-015

Boring No. CA507-SB70

Date/Time Collected: 2-12-13 / 1450

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 10-14.6

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace ND

SOIL DESCRIPTION

Depth: 10-14.6 Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB71-010

Boring No. CA507-SB71

Date/Time Collected: 2-12-13 / 1520

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/ macro core / 5-9.5

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: ND

SOIL DESCRIPTION

Depth: 5-9.5

Soil Description: Sandy SILT (ML) - Very stiff, moist, light brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-S871-013

Boring No. CA507-S871

Date/Time Collected: 2-12-13 / 1530

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core / 10-13

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC's
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 10-13

Soil Description: Sandy SILT (ML) – Hard, moist, light brown, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB72-010

Boring No. SB72

Date/Time Collected: 2-13-13 @ 1108

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MAcro core (5'-10')

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 X 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		PCBs, Lead
2x 40ml VOAs	MeOH	TPH-GRO

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: Sandy SILT (ML), becomes Calcareous @ 9'ft bgs

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: ST-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB72-015

Boring No. ~~10~~ SB72

Date/Time Collected: 2-13-13 @ 1120

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core (10'-15')

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Sample QC Duplicate: YES NO (circled)

MS/MSD Requested: YES NO (circled)

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX + naphthalene (8260B)
2 x 8 oz. GLASS	4°	TPH-DRO, TPH-ORO (8015C)
		Site Related SVOC
		PCBs, Lead
2 x 40 ml VOAs	MeOH	TPH-GRO

PID MEASUREMENTS

Background	N.D
Breathing zone	
Boring	
Headspace	ND

SOIL DESCRIPTION

Depth: 10'-15' Soil Description: SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB73-010

Boring No. CA507-SB73

Date/Time Collected: 2-13-13/0812

Personnel: MC, JC, AR

Sample Method/Depth: Direct Push w/macro core/5-10

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	8.5

SOIL DESCRIPTION

Depth: 5-10

Soil Description: Sandy SILT(ML)-Very stiff, moist, light brown, with calcareous nodules.

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB73-015

Boring No. CA507-SB73

Date/Time Collected: 2-13-13 / 0819

Personnel: MC, JL, AR

Sample Method/Depth: Direct Push w/ macro core / 10-15

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 9.4

SOIL DESCRIPTION

Depth: 10-15

Soil Description: Sandy SILT (ML) - Very stiff, moist, light tan

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB74-010

Boring No. CA507-SB74

Date/Time Collected: 2-14-13 / 0930

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA507-SB574-010

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260B)
4 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background ND

Breathing zone ND

Boring ND

Headspace 48.8

SOIL DESCRIPTION

Depth: 10.0-15.0 Soil Description: Sandy SILT (ML) - very stiff, reddish brown, low plastic, moist

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SS-C507, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA507-SB74-015

Boring No. CA507-SB74

Date/Time Collected: 2-14-13 / 0945

Personnel: JC MC

Sample Method/Depth: Direct Push w/macro core / 10.0-15.0

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water, 1-MeOH 4°	BTEX, naphthalene (8260 B)
2 x 40ml VOA	2- MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		Site related SVOC
		Lead (6020A/7471B)
		PCBs (8082A)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	8.8

SOIL DESCRIPTION

Depth: 10.0-15.0 Soil Description: Sandy SILT (ML) - very stiff, moist, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SS01-001

Boring No. CA508-SB01

Date/Time Collected: 1-23-13 / 1130

Personnel: M. Cline, J. Conradi

Sample Method/Depth: hand trowel / ~~Direct Push w/ Macro Core~~ / 0-0.5' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA508-SS501-001

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 3mL x 40ml VOA	2-water 1-MeOH 4°	VOCs (8260B)
4 2mL x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 2mL x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 x 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	~~3.8~~ mc 0.8

SOIL DESCRIPTION

Depth: 0-0.5 Soil Description: SILT(ML) - Medium stiff, dry, brown, low plastic, with fine sand

GENERAL COMMENTS

* Collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB01-004

Boring No. CA508-SB01

Date/Time Collected: 1-23-13 / 1235

Personnel: M. Cline, J. Conradi

Sample Method/Depth: Direct Push w/ Macro Core / 0.5-4' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA508-SB501-004

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3ml~~ X 40ml VOA	2-Water 1-MeOH 4°	VOCs (8260B)
4 ~~2ml~~ X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
4 ~~2ml~~ X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.7

SOIL DESCRIPTION

Depth: ~~0.5-4'~~ ML 0.5'-4'

Soil Description: SILT (ML) - Medium stiff, dry, brown, low plastic, with fine sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CAS08-SB01-009

Boring No. CAS08-SB01

Date/Time Collected: 1-23-18 / 1315

Personnel: M. Cline, J. Connedi

Sample Method/Depth: Direct Push w/ Macro Core / 5-9' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3-8

SOIL DESCRIPTION

Depth:	Soil Description:
5'-6.5'	SILT (ML) - Stiff, dry, brownish red, low plastic, with calcareous nodules
6.5'-7.5'	Becomes very light tan, abundant calcareous nodules (caliche zone)
7.5'-9.0'	Clean silt, brownish red

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CAS08-SB01-015

Boring No. CAS08-SB01

Date/Time Collected: 1-23-13 / 1335

Personnel: M. Cline, J. Conradi

Sample Method/Depth: Direct Push w/ Macro Core / 10-15' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3.0

SOIL DESCRIPTION

Depth:	Soil Description:
10'-11'	SILT(ML) - Stiff, dry, reddish white, low plastic
11'-12.5'	Becomes dark brown, with metallic chunks
12.5'-15'	Becomes reddish-brown, with sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CAS08-SB01-020

Boring No. CAS08-SB01

Date/Time Collected: 1-23-13/1400

Personnel: M. Cline, J. Conredi

Sample Method/Depth: Direct Push w/ Macro Core/15'-20' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOCs (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3.5

SOIL DESCRIPTION

Depth:	Soil Description:
15'-17'	SILT(ML)-Medium Stiff, dry, reddish brown, with calcareous nodules
17.0'-17.5'	With fine sand and charred debris
17.5-20'	Clean silt with calcareous nodules again

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SS02-001

Boring No. CA508-SB02

Date/Time Collected: 1-23-13/0811

Personnel: MC, JC

Sample Method/Depth: Hand trowel ~~Direct Push w/Macro Core~~ 0-0.5 feet bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5'

Soil Description: SILT(ML) - Stiff, dry, reddish brown, low plastic

GENERAL COMMENTS

* collected with a hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB02-003

Boring No. CA508-SB02

Date/Time Collected: 1-23-13 / 0835

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 0.5-3' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water 1-MeOH 4°	VOCs (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.9

SOIL DESCRIPTION

Depth: 0.5'-3'

Soil Description: SILT(ML) - medium stiff, ~~reddish~~ ~~reddish~~ mc dry, reddish white, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB02-010

Boring No. CA508-SB02

Date/Time Collected: 1-23-13/ 0855

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5-10' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.5

SOIL DESCRIPTION

Depth:	Soil Description:
5'-8.5'	Sandy SILT (ML) - Stiff, dry, reddish brown, low plastic, with large calcareous nodules in bottom 0.5'
8.5'-10'	SILT (ML) Stiff, dry, brown, low plastic, with small calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB02-015

Boring No. CA508-SB02

Date/Time Collected: 1-23-13/0925

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core/10-15' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: 10.3 (high moisture in bag)

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) - Stiff, dry, brown, low plastic, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SS03-001

Boring No. SS03

Date/Time Collected: 1-23-13 @ 1102

Personnel: J. Allen, R. Herold

Sample Method/Depth: ~~Direct Push w/ Macro core~~ Hand Trowell / 0-0.5 ft bgs

Sample Media: SOIL (circled) / SEDIMENT / SLUDGE

Sample QA Split: YES / NO (circled)

Split Sample NO. —

Sample QC Duplicate: YES (circled) / NO

Duplicate Sample NO. CA508-SS503-001 @ false time 0715

MS/MSD Requested: YES / NO (circled)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	4 ~~2~~-water ~~2~~-MeOH 4°	VOCs (8260B)
4 ~~2~~ x 40ml VOA	4 ~~2~~-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 x 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-0.5

Soil Description: Silty SAND (SM) - Med. dense, dry, brown, very fine to fine grain

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB03-010

Boring No. SB03

Date/Time Collected: 1-23-13 @ 1156

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (5-10 ft bgs)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water 1-MeOH 4°	VOCs (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 x 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	
Boring	
Headspace	3.9 ppm

SOIL DESCRIPTION

Depth: 5-10 ft bgs

Soil Description: Sandy SILT (ML) - Med. Stiff, pale orangish-brown, No plasticity, very fine to fine sand, some white caliche mottling, trace caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB03-005

Boring No. SB03

Date/Time Collected: 1-23-13 @ 1130

Personnel: J. Allen, R. Herrold

Sample Method/Depth: Direct Push w/ Macro Core (1-4.5 ft bgs)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOCs (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth:	Soil Description:
1-2.2 (ft bgs)	Silty SAND (SM) - med. dense, dry, brown, fine grain to very fine grain
2.2-4.5 (ft bgs)	Calcareous SILT (ML) - med. stiff, dry, pale orange to off white, no plasticity, trace fine caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB03-015

Boring No. SB03

Date/Time Collected: 1-23-13 @ 1228

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (10-15 ft bgs)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 x 40ml VOA	2-water 1-MeOH 4°	VOCs (8260B)
2 x 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs, Explosives
1 x 4oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	2.5ppm

SOIL DESCRIPTION

Depth:	Soil Description:
10-12 ft bgs	Sandy SILT (ML) - Med Stiff, dry, orangish-brown, no plasticity, very fine to fine sand, some caliche mottling
12-13.5 ft bgs	Silty SAND (SM) - Med dense, dry, reddish-brown, very fine to fine grain
13.5-15 ft bgs	Calcareous SILT (ML) - Med Stiff, dry, pale orange-white, no plasticity, caliche nodules, trace fine sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SS04-001

Boring No. CA508-SB04

Date/Time Collected: 1-23-13 / 0955

Personnel: MC, JC

Sample Method/Depth: hand trowel ~~Direct Push w/ Macro Core~~ / 0-0.5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth: 0-0.5' Soil Description: Sandy SILT (ML) - Medium stiff, dry, reddish brown, low plastic

GENERAL COMMENTS

* collected with hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB04-004

Boring No. CA508-SB04

Date/Time Collected: 1-23-13 / 1015

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 0.5-4.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2.4

SOIL DESCRIPTION

Depth:	Soil Description:
0.5'-2'	Sandy SILT (ML) - Medium stiff, dry, reddish brown, low plastic
2'-4'	SILT (ML) - Stiff, dry, reddish white, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CAS08-SB04-009

Boring No. CAS08-SB04

Date/Time Collected: 1-23-12/1040

Personnel: ML, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5-10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOCs (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3-4

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) - Stiff, dry, brown, low plastic, with fine sand and calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB04-014

Boring No. CA508-SB04

Date/Time Collected: 1-23-12 / 1100

14.4'

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 10-18'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	4.1

SOIL DESCRIPTION

Depth: 10' - ~~15'~~ 14.4'

Soil Description: SILT(ML) - Stiff, dry, brown, low plastic, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SS05-001

Boring No. SS05

Date/Time Collected: 1-23-13 @ 0925

Personnel: J. Allen, R. Herold

Sample Method/Depth: Hand Trowell ~~Direct Push w/ Macro Core~~ (0-5ft bgs)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA508-SS505-001 @ Pulse time @ 0700

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
6 ~~3~~ x 40ml VOA	4 ~~2~~-water ~~2~~-MeOH 4°	VOC's (8260B)
4 ~~2~~ x 40ml VOA	4 ~~2~~-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ x 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 x 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-5ft bgs

Soil Description: Sandy SILT (ML) - med. stiff, dry, reddish-brown, low plasticity, very fine grain sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB05-005

Boring No. SB05

Date/Time Collected: 1-23-13 @ 0945

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (1-4 ft bgs)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	5.0 ppm

SOIL DESCRIPTION

Depth:	Soil Description:
1-4 ft bgs	Sandy SILT (ML) - med. stiff, dry, reddish-brown, low plasticity, very fine sand
4-5 ft bgs	Calcareous SILT (ML) - stiff, dry, very pale orange to white, no plasticity

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB05-010

Boring No. SB05

Date/Time Collected: 1-23-13 @ 1010

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (5-9.6 ft bgs)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	5.9 ppm

SOIL DESCRIPTION

Depth: 5-9.6 ft bgs

Soil Description: Calcareous Silt (ML) - Stiff, dry, very pale orange to white, no plasticity, trace fine caliche nodules, trace sand (9.0'-9.6')

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB05-015

Boring No. SB05

Date/Time Collected: 1-23-13 @ 1030

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (10-15 ft bgs)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	2.7 ppm

SOIL DESCRIPTION

Depth:	Soil Description:
10 - 14.1 ft bgs	Calcareous SILT (ML) - Stiff, dry, pale orangish-brown with trace white caliche mottling, no plasticity, trace sand and fine caliche nodules
14.1 - 15.0 ft bgs	Silty SAND (SM) - Med. Dense, dry, pale orangish-brown, very fine to fine grain.

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SS06-001

Boring No. CA508-SB06

Date/Time Collected: 1/22/13 - 1435

Personnel: M. Cline, J. Conradi

Sample Method/Depth: hand trowel ~~Direct Push w/ Macro Core~~ 0-0.5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: MC ~~YES~~ (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	MC ~~ND~~ 2.7

SOIL DESCRIPTION

Depth: 0 - 0.5' Soil Description: SILT(ML) - Stiff, dry, light brown, low plastic, with trace sand

GENERAL COMMENTS

- collected using hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CAS08-SB06-004

Boring No. CAS08-SB06

Date/Time Collected: 1/22/13 - 1458

Personnel: M. Cline, J. Conrad

Sample Method/Depth: Direct Push w/ Macro Core / 0.5-4'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOCs (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	MC ~~ND~~ 3.3

SOIL DESCRIPTION

Depth: 0.5-4'

Soil Description: SILT(ML) - Stiff, dry, light brown, low plastic, with trace sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB06-010

Boring No. CA508-SB06

Date/Time Collected: 1/22/13 - 1530

Personnel: M. Cline, J. Conrad

Sample Method/Depth: Direct Push w/ Macro Core / 5-10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~3~~ X 40ml VOA	6 ~~2~~-water, ~~1~~-MeOH 4°	VOCs (8260B)
6 ~~2~~ X 40ml VOA	6 ~~2~~-MeOH 4°	TPH-GRO (8015C)
4 ~~2~~ X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
2 ~~1~~ X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	MC ~~ND~~ 1.8

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) - Medium stiff, dry, tan, low plastic, with trace sand and calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SS07-001

Boring No. CA508-SB07

Date/Time Collected: 1/22/13 - 1255

Personnel: M. Cline, J. Conradi, S. Jacobson, R. Herold, J. Allen

Sample Method/Depth: Hand trowel ~~Direct Push w/ Macro Core~~ MC/0-0.5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	MC. ~~ND~~ 2.7

SOIL DESCRIPTION

Depth: 0 ~~-0.5~~ MC 0.5'

Soil Description: SILT (ML) - stiff, dry, brown, low plastic

GENERAL COMMENTS

- collected with a hand trowel

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB07-005

Boring No. CA508-SB07

Date/Time Collected: 1/22/13 - 1330

Personnel: M. Cline, J. Conradi, S. Jacobsen, R. Heald, J. Allen

Sample Method/Depth: Direct Push w/ Macro Core/0.5-5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOCs (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	mc ~~ND~~ 1.2

SOIL DESCRIPTION

Depth:	Soil Description:
0.5-3'	SILT (ML) - Stiff, dry, brown, low plastic
3'-5'	SILT (ML) - Medium stiff, dry, light reddish-white, calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB07-009

Boring No. CA508-SB07-009

Date/Time Collected: 1/22/13 — 1400

Personnel: M Cline, J Conradi, S Jacobson, R Herold, J Allen

Sample Method/Depth: Direct Push w/ Macro Core / 5-9'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOCs (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	ND

SOIL DESCRIPTION

Depth:	Soil Description:
5'-7'	SILT (ML) - Medium stiff, dry, light reddish brown, calcareous
7'-9'	Silty SAND (SM) - Dense, dry, reddish brown with weathered caliche veins, fine-grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SS08-001

Boring No. CA508-SS08

Date/Time Collected: 1-23-13 @ 0805

Personnel: J. Allen, R. Herold

Sample Method/Depth: ~~Direct Push / Micro Core~~ Hand Trowell / 0.5'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	↓

SOIL DESCRIPTION

Depth: 0-0.5'

Soil Description: Sandy SILT (ML) - medium stiff, dry, reddish-brown, low to no plasticity, very fine sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB08-005

Boring No. CA508-SB08

Date/Time Collected: 1-23-13 @ 0825

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (1-5 ft bgs)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	7.9ppm

SOIL DESCRIPTION

Depth:	Soil Description:
1-4.8ft bgs	Sandy Silt (ML) - med. stiff, dry, reddish-brown, low to plasticity, very fine sand
4.8-5.0ft bgs	No RECOVERY

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB08-010

Boring No. SB08

Date/Time Collected: 1-23-13 @ 0850

Personnel: J. Allen, R. Herold

Sample Method/Depth: Direct Push w/ Macro Core (5-9.5 ft bgs)

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 ~~3~~ X 40ml VOA	6 ~~2~~ - water, 3 ~~1~~ - MeOH 4°	VOC's (8260B)
6 ~~2~~ X 40ml VOA	6 ~~2~~ - MeOH 4°	TPH - GRO (8015C)
2 X 8oz Glass	4°	TPH - DRO, TPH - ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	2.3ppm

SOIL DESCRIPTION

Depth:	Soil Description:
5-8.0 ft bgs	Calcareous SILT (ML) - med. Stiff, dry, off white to very pale pink, no plasticity, trace caliche nodules
8-9.5 ft bgs	Sandy SILT (ML) - med stiff, dry, pale orange-white, low plasticity, very fine sand, some caliche mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SS09-001

Boring No. SS09

Date/Time Collected: 1-22-13 @ 1425

Personnel: R. Herold, J. Allen

Sample Method/Depth: Hand Trowel ~~Direct Push w/ Macro Core~~ 0.5ft

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOCs (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs
		Pesticides
		RCRA metals
		PCBs Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	ND
Headspace	↓

SOIL DESCRIPTION

Depth: (bgs) 0-0.5 ft

Soil Description: SILT (ML) - Stiff, dry, reddish-brown, very low plasticity, some very fine sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-C508, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB09-005

Boring No. SB09

Date/Time Collected: 1-22-13 @ 1448

Personnel: R. Herold, J. Allen

Sample Method/Depth: Direct Push w/ Macro Core / 1-4.6' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water, 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	3.4 ppm

SOIL DESCRIPTION

Depth: ~~3-5 ft bgs~~ 1-4.6

Soil Description: ~~Calcareous~~ SILT (ML) - Medium Stiff, dry, ~~pale orangish white~~, very low plasticity

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: SD-CS08, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA508-SB09-010

Boring No. SB09

Date/Time Collected: 1-22-13 @ 1500

Personnel: R. Herold, J. Allen

Sample Method/Depth: Direct Push w/ Macro Core / 5.0'-10.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOA	2-water 1-MeOH 4°	VOC's (8260B)
2 X 40ml VOA	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOC's
		Pesticides
		RCRA metals
		PCB's Explosives
1 X 4 oz. Glass	4°	Dioxins / Furans

PID MEASUREMENTS

Background	ND
Breathing zone	
Boring	
Headspace	6.5 ppm

SOIL DESCRIPTION

Depth: 5-10 ft bgs

Soil Description: Silty SAND (SM)- medium dense, dry, pale orangish-brown, very fine grain, calcareous, Some fine, caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB01-004

Boring No. CA129-SB01

Date/Time Collected: 1-25-13/0805

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core/0-4' bgs

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO.

Sample QC Duplicate: YES NO

Duplicate Sample NO.

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.7

SOIL DESCRIPTION

Depth:	Soil Description:
0-1'	SAND (SP) - Loose, dry, light brown, very fine, with coarse gravel
1-2'	Silty SAND (SM) - Loose, dry, brown, fine
2-4'	Sandy SILT (ML) - Very stiff, dry, brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB01-009

Boring No. CA129-SB01

Date/Time Collected: 1-25-13 / 0825

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5'-9' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2.9

SOIL DESCRIPTION

Depth:	Soil Description:
5-5.5	Sandy SILT (ML) - Very stiff, dry, brown, low plastic
5.5-7	Becomes very soft, light tan, with calcareous nodules
7-9	Becomes stiff, reddish brown

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB01-015

Boring No. CA129-SB01

Date/Time Collected: 1-25-13 / 0845

Personnel: MC/JC

Sample Method/Depth: Direct Push w/ Macro Core / 10-15' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	4.2

SOIL DESCRIPTION

Depth:	Soil Description:
10-10.9	SILT (ML) - Stiff, dry, reddish brown, low plastic, with few sand
10.9-11.4	Silty SAND (SM) - loose, dry, dark brown, fine
11.4-15	SILT (ML) - Very stiff, dry, light tan, low plastic, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB02-005

Boring No. CA129-SB02

Date/Time Collected: 1-25-13 @ 0955

Personnel: JA, RH

Sample Method/Depth: Direct Push w/ Macro Core / 5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Sample QC Duplicate: YES (NO)

MS/MSD Requested: YES (NO)

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth: 0-5 ft bgs

Soil Description: Sandy SILT (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB02-010

Boring No. CA129-SB02

Date/Time Collected: 1-25-13 @ 1017

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core / 10'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring

Headspace ND

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: Sandy SILT (ML) with caliche mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB02-015

Boring No. CA129-SB02

Date/Time Collected: 1-25-13 @ 1025

Personnel: JA, RH

Sample Method/Depth: Direct Push w/ Macro Core / 15'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth:	Soil Description:
10'-12'	SILT (ML) with sand and caliche mottling
12'-15'	SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB02-020

Boring No. CA129-SB02

Date/Time Collected: 1-25-13 @ 1036

Personnel: JA, RH

Sample Method/Depth: Direct Push w/ Macro Core/20'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ND

SOIL DESCRIPTION

Depth:	Soil Description:
15'-16.5'	SAND (SP)
16.5'-20.0'	Sandy SILT (ML) w/ white calcho mottling

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB01-018

Boring No. CA129-SB01

Date/Time Collected: 1-25-13 / 0900

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 15-18' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
6 2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
4 2 x 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	4.1

SOIL DESCRIPTION

Depth:	Soil Description:
15-16	Silty SAND (SM) - loose, dry, dark brown, fine, with trace medium gravel
16-17.5	Sandy SILT (ML) - stiff, dry, brown, low plastic, with calcareous nodules
17.5-18	SAND (SP) - loose, dry, brown, very fine, with trace calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB03-005

Boring No. CA129-SB03

Date/Time Collected: 1-25-13 @ 0801

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MACRO Core/5'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. CA129-SB503-005 @ false time 0745

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ND

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Silty SAND (SM) and GRAVEL (GP) Fill

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB03-010

Boring No. CA129-SB03

Date/Time Collected: 1-25-13 @ 0828

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MACRO Core/10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth: 5-10'

Soil Description: SILT (ML), calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB03-015

Boring No. CA129-SB03

Date/Time Collected: 1-25-13 @ 0841

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MACRO Core/10.0-15.0

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO.

Duplicate Sample NO.

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring

Headspace ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: SILT (ML) Calcareous with caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB03-020

Boring No. CA129-SB03

Date/Time Collected: 1-25-13 @ 0907

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core/20'

Sample Media: SOIL (circled) SEDIMENT SLUDGE

Sample QA Split: YES NO (circled)

Split Sample NO. —

Sample QC Duplicate: YES NO (circled)

Duplicate Sample NO. —

MS/MSD Requested: YES NO (circled)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SILT (ML) calcareous w/caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB03-025

Boring No. CA129-SB03

Date/Time Collected: 1-25-13 @ 0930

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core/25'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ND

SOIL DESCRIPTION

Depth:	Soil Description:
20'-24.3'	SILT (ML) calcareous with caliche nodules
24.3'-25.0'	SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB04-005

Boring No. CA129-SB04

Date/Time Collected: 1-24-13/1420

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro core/0-5' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background NR

Breathing zone NR

Boring NR

Headspace 0.4

SOIL DESCRIPTION

Depth:	Soil Description:
0-1'	SAND (SP) - Loose, dry, brown, fine
1'-5'	Sandy SILT (ML) - Very stiff, dry, brown, low plastic
	with 0.4' of coarse gravel @ 3.5' bgs

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB04-009

Boring No. CA129-SB04

Date/Time Collected: 1-24-13 / 1450

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ MACRO core / 5-9' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA129-SB504-009

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.1

SOIL DESCRIPTION

Depth: 5'-9'

Soil Description: Sandy SILT (ML) - soft, dry, light tan, low plastic, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB04-020

Boring No. CA129-SB04

Date/Time Collected: 1-24-13 / 1545

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 15-20' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (~~NO~~)

Split Sample NO.

Sample QC Duplicate: YES (~~NO~~)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background: ND

Breathing zone: ND

Boring: ND

Headspace: 1.1

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SILT (ML) - Stiff, dry, light tan, low plastic, with calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB05-005

Boring No. CA129-SB05

Date/Time Collected: 1-24-13 @ 1415

Personnel: JA, RH

Sample Method/Depth: Direct Push w/ Macro Core / 5'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA129-SB505-005 @ false time 1000

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(6) ~~3~~ x 40 ml VOAs	(4) ~~2~~-water, (2) 1-MeOH 4°	VOC (8260B)
(4) ~~2~~ x 40 ml VOAs	(4) ~~2~~-MeOH 4°	TPH-GRO (8015C)
(4) ~~2~~ x 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 0-5'

Soil Description: Sandy Silt (ML)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB05-010

Boring No. CA129-SB05

Date/Time Collected: 1-24-13@1445

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ Macro Core/ 10.0'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring

Headspace ND

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: Sandy SILT (ML) with trace caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB05-015

Boring No. CA129-SB05

Date/Time Collected: 1-24-13 @ 1458

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro Core / 15'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: Silty SAND (SM) with trace caliche

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB05-020

Boring No. CA129-SB05

Date/Time Collected: 1-24-13 @ ~~1458~~ 1515

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MACRO Core/20'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Sample QC Duplicate: YES NO

MS/MSD Requested: YES NO

Split Sample NO. —

Duplicate Sample NO. —

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background: ND

Breathing zone: ↓

Boring: ↓

Headspace: ND

SOIL DESCRIPTION

Depth: 15'-20' Soil Description: SAND (SP)

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB06-003

Boring No. CA129-SB06

Date/Time Collected: 1-25-13/ 0955

Personnel: MG, JC

Sample Method/Depth: Direct Push w/ MACRO core/0-3' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.2

SOIL DESCRIPTION

Depth:	Soil Description:
0-0.8'	Silty SAND(SM) - Loose, dry, dark brown, fine grained, with trace gravel
0.8'-2.1'	Sandy SILT(ML) - Very stiff, dry, brown, low plastic, with trace gravel
2.1'-3.0'	Sandy GRAVEL(GM) - loose, dry, brown, coarse, with silt

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB06-010

Boring No. CA129-SB06

Date/Time Collected: 1-25-13 / 1015

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5-10' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: (YES) NO

Duplicate Sample NO. CA129-SB506-010

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.9

SOIL DESCRIPTION

Depth:	Soil Description:
5'-6.5'	Sandy GRAVEL (GM) - loose, dry, brown, coarse, with silt
6.5'-9'	Sandy SILT (ML) - Very stiff, dry, reddish brown, low plastic
9'-10'	Silty SAND (SM) - Dense, dry, brown, fine grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB06-015

Boring No. CA129-SB06

Date/Time Collected: 1-25-13 / 1045

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 10-15' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	3.6

SOIL DESCRIPTION

Depth:	Soil Description:
10'- 10.3'	Silty SAND (SM) - Dense, dry, brown, fine-grained
10.3'- 11.9'	Gravelly SAND (SP) - loose, dry, brown, fine-grained
11.9'- 15'	Silty SAND (SM) - Loose, dry, tan, fine, with trace gravel and calcareous nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB06-020

Boring No. CA129-SB06

Date/Time Collected: 1-25-13 / 1100

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ MACRO Core / 15.0'-20.0'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.9

SOIL DESCRIPTION

Depth:	Soil Description:
15'-17'	Sandy GRAVEL (GP) - loose, dry, brownish gray, poorly sorted
17'-20'	Silty SAND (SM) - loose, dry, reddish brown, fine grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB07-005

Boring No. CA129-SB07

Date/Time Collected: 1-25-13 @ 1121

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro Core / 5'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring

Headspace ND

SOIL DESCRIPTION

Depth:	Soil Description:
~~0-5'~~	
0-2.2'	Silty SAND (SM) with Asphalt and Gravel (FILL)
2.2'-4.0'	SILT (ML) Fill
4.0'-5.0'	SILT (ML) calcareous - Native @ 4.0 ftbgs

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB07-010

Boring No. CA129-SB07

Date/Time Collected: 1-25-13 @ 1140

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MACRO core/10'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ND

SOIL DESCRIPTION

Depth: 5'-10'

Soil Description: SILT (ML) calcareous

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129 - SB07 - 015

Boring No. CA129-SB07

Date/Time Collected: 1-25-13 @ 1155

Personnel: JA / RH

Sample Method/Depth: Direct Push w/ Macro Core / 15'

Sample Media: SOIL SEDIMENT SLUDGE

Sample QA Split: YES NO

Split Sample NO. —

Sample QC Duplicate: YES NO

Duplicate Sample NO. —

MS/MSD Requested: YES NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	↓
Boring	↓
Headspace	ND

SOIL DESCRIPTION

Depth: 10'-15'

Soil Description: Sandy SILT (ML) with some fine caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB07-020

Boring No. CA129-SB07

Date/Time Collected: 1-25-13 @ 1215

Personnel: JA/RH

Sample Method/Depth: Direct Push w/ MACRO Core /20'

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO. —

Sample QC Duplicate: YES (NO)

Duplicate Sample NO. —

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
(9) 3 x 40 ml VOAs	(6) 2-water, (3) 1-MeOH 4°	VOC (8260B)
(6) 2 x 40 ml VOAs	(6) 2-MeOH 4°	TPH-GRO (8015C)
(4) 2 x 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background ND

Breathing zone ↓

Boring ↓

Headspace ND

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: Sandy SILT (ML) with fine caliche nodules

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB08-004

Boring No. CA129-SB08

Date/Time Collected: 1-25-13 / 1155

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ MACRO Core / 0-4' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	1.9

SOIL DESCRIPTION

Depth:	Soil Description:
0-0.5'	Sandy CLAY (CL) - Medium stiff, dry, light brown, low plastic
0.5'-0.9'	SAND (SP) - Loose, dry, tan, fine grained, poorly sorted
0.9'-5.0'	Silty SAND (SM) - medium dense, dry, brown, fine-grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB08-010

Boring No. CA129-SB08

Date/Time Collected: 1-25-13 / 1210

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 5-9.6' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	~~ND~~ MC 1.3

SOIL DESCRIPTION

Depth:	Soil Description:
5.0-9.1'	SILT (ML) - Stiff, dry, reddish brown, low plastic, with trace sand
9.1-9.6'	Silty GRAVEL (GM) - Loose, dry, light tan, poorly sorted, angular grains

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB08-015

Boring No. CA129-SB08

Date/Time Collected: 1-25-13/1230

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ MACRO Core/10-15' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0-7

SOIL DESCRIPTION

Depth:	Soil Description:
10' - 10.8'	Clayey SAND (SC) - Dense, dry, dark brown, fine grained
10.8' - 15'	SILT (ML) - Medium stiff, dry, light brown, low plastic

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB08-020

Boring No. CA129-SB08

Date/Time Collected: 1-25-13 / 1245

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ MACRO Core / 15'-20' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: (YES) NO

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
9 3 x 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
6 2 x 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
4 2 x 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.9

SOIL DESCRIPTION

Depth: 15'-20'

Soil Description: SILT(ML) - stiff, dry, dark brown, low plastic, with trace sand

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB09-004

Boring No. CA129-SB09

Date/Time Collected: 1-25-13 / 1120

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 0-4' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA Metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	0.6

SOIL DESCRIPTION

Depth:	Soil Description:
0-0.4'	SAND(SP) - Loose, dry, tan, fine-grained
0.4'-0.8'	GRAVEL(GW) - Loose, dry, brown, medium-grained
0.8'-4.0'	Silty SAND(SM) - Medium dense, dry, brown, fine grained

GENERAL COMMENTS

SOIL SAMPLE COLLECTION FIELD SHEET

GENERAL INFORMATION

Site Name: TA/AS-C129, Cannon AFB, Clovis, NM

Project No. 16170622

Sample No. CA129-SB10-003

Boring No. CA129-SB10

Date/Time Collected: 1-25-13 / 0925

Personnel: MC, JC

Sample Method/Depth: Direct Push w/ Macro Core / 0-3' bgs

Sample Media: (SOIL) SEDIMENT SLUDGE

Sample QA Split: YES (NO)

Split Sample NO.

Sample QC Duplicate: YES (NO)

Duplicate Sample NO.

MS/MSD Requested: YES (NO)

SAMPLE CONTAINERS, PRESERVATIVES, ANALYSIS

Sample Container	Preservative	Analysis Requested
3 X 40 ml VOAs	2-water, 1-MeOH 4°	VOC (8260B)
2 X 40 ml VOAs	2-MeOH 4°	TPH-GRO (8015C)
2 X 8 oz Glass	4°	TPH-DRO, TPH-ORO (8015C)
		SVOCs w/ LL PAHs (8270D)
		RCRA metals (6020A/7471B)
		PCBs (8082A)
		Organochlorine Pest (8081B)

PID MEASUREMENTS

Background	ND
Breathing zone	ND
Boring	ND
Headspace	2-6

SOIL DESCRIPTION

Depth: 0 - 3'

Soil Description: Silty SAND (SP) - loose, dry, brown, fine grained, with trace coarse sand and gravel

GENERAL COMMENTS

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 1

Description:

Sampling Activites at 8 Sites

Traffic control measures were implemented at the Former AGE Dispatch Facility Spills Site (SS-C501). Two direct push rigs, a truck-mounted Geoprobe 5410 (shown here) and a track mounted Geoprobe 6620DT, were used to collect subsurface soil samples for this project.

Photograph No. 2

Description:

Sampling Activites at 8 Sites

Subsurface soil sampling at the Former Gas Station Site (ST-C502) was conducted primarily using the Geoprobe 6620DT.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 3

Description:

Sampling Activites at 8 Sites

The Geoprobe MacroCore system was used to obtain soil samples in acetate liners from inside a stainless steel sampling barrel in 5 foot intervals.

Photograph No. 4

Description:

Sampling Activites at 8 Sites

Each 5-foot interval was logged with a soil description in accordance with the Unified Soil Classification System.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 5

Description:

Sampling Activites at 8 Sites

After the collection of each sample, all equipment was decontaminated by washing in a solution of water and Alconox, rinsing in tap water, and then rinsing with dionized water.

Photograph No. 6

Description:

Sampling Activites at 8 Sites

A concrete bit was used to allow access to the soil in paved areas.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 7

Description:

Sampling Activites at 8 Sites

A stainless steel hand trowel was used to collect surface soil samples from 0 to0.5 feet bgs to be mixed prior to being placed into 8-oz jars. A TerraCore sampler was used to collect 5 grams of soil (per push) from freshly exposed areas of soil to be placed into water- and methanol-preserved VOAs.

Photograph No. 8

Description:

Sampling Activites at 8 Sites

Each sample jar was labeled with a unique code that indicated the site, sample location, and sample depth.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 9

Description:

Sampling Activites at 8 Sites

Quality control checks were performed prior to shipping samples to EMAX Laboratories, Inc.

Photograph No. 10

Description:

Sampling Activites at 8 Sites

A 400 MHz GPR antenna connected to a GSS1 SIR 3000 data acquisition unit was utilized to locate the abandoned UST and unmarked utilities between the cooling towers and the hospital building at the Hospital Abandonded UST Site (ST-C504). The manhole in the lower left corner of this photograph marks the center of the top of the UST.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 11

Description:

Sampling Activites at 8 Sites

After employing the 400 MHz antenna, a 200 MHz GPR antenna connected to a GSS1 SIR 3000 was used in an attempt to detect utilities buried at depths below the 400 MHz antenna's limits of detection (approximately 3.5 feet bgs) at ST-C504. Maximum penetration depth with the 200 MHz antenna was approximately 4 feet bgs.

Photograph No. 12

Description:

Sampling Activites at 8 Sites

Top of the the abandoned UST located 2.5 feet bgs. View through a manhole at ST-C504.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 13

Description:

Sampling Activites at 8 Sites

Measuring the step out distance to avoid the abandoned UST and marked undergound utilities at ST-C504.

Photograph No. 14

Description:

Sampling Activites at 8 Sites

Utilizing a hand auger to investigate 0 to 2 feet bgs to ensure the selected boring location will not impact utility lines at ST-C504.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 15

Description:

SS-C501

View of the southwestern half of the site looking southwest.

Photograph No. 16

Description:

SS-C501

View of the northeastern end of the site looking northeast.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 17

Description:

ST-C502

View of the former UST area looking northeast.

Photograph No. 18

Description:

ST-C502

View of the former pump island area looking southeast.

Subsurface soil samples were collected beneath the drive-through canopy at ST-C502.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 19

Description:

ST-C502

View of a former hydraulic lift location located beneath the drive-through canopy of the credit union.

Photograph No. 20

Description:

ST-C503

View of the site looking northeast.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 21

Description:

ST-C504

View of the site looking southeast.

Photograph No. 22

Description:

ST-C504

View of the site looking northeast.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No.23

Description:

ST-C504

Samples collected in July 2013 from 125-275 ft bgs were collected using a sonic drill rig.

Photograph No. 14

Description:

ST-C504

Example of soil sample collected with sonic drill rig.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 25

Description:

ST-C505

View of boring locations looking southwest.

Photograph No. 26

Description:

ST-C505

View of the site looking southwest.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 27

Description:

SS-C507

View of the east side of the site looking south from northeast corner of the site.

Photograph No. 28

Description:

SS-C507

View of the site looking southwest from the northeast corner

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 29

Description:

SS-C507

View of the northern part of the site from the northeast corner

Photograph No. 30

Description:

SS-C507

View of the western part of the site from the northwest corner.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 31

Description:

SS-C507

Surface soil sample location CA507-SS03.

Photograph No. 32

Description:

SS-C507

Surface soil sample location CA507-SS04.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 33

Description:

SS-C507

Surface soil sample location CA507-SS05.

Photograph No. 34

Description:

SS-C507

Surface soil sample location CA507-SS06.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 35

Description:

SS-C507

Surface soil sample location CA507-SS07.

Photograph No. 36

Description:

SS-C507

Surface soil sample location CA507-SS08.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 37

Description:

SS-C507

Surface soil sample location CA507-SS09.

Photograph No. 38

Description:

SS-C507

Surface soil sample location CA507-SS12.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 39

Description:

SS-C507

Surface soil sample location CA507-SS13.

Photograph No. 40

Description:

SS-C507

Surface soil sample location CA507-SS14.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 41

Description:

SS-C507

Surface soil sample location CA507-SS19.

Photograph No. 42

Description:

SS-C507

Surface soil sample location CA507-SS20.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 43

Description:

SS-C507

Surface soil sample location CA507-SS21.

Photograph No. 44

Description:

SS-C507

Surface soil sample location CA507-SS22.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 45

Description:

SS-C507

Surface soil sample location CA507-SS23.

Photograph No. 46

Description:

SS-C507

Surface soil sample location CA507-SS24.

SITE ACTIVITIES PHOTOGRAPHIC LOG

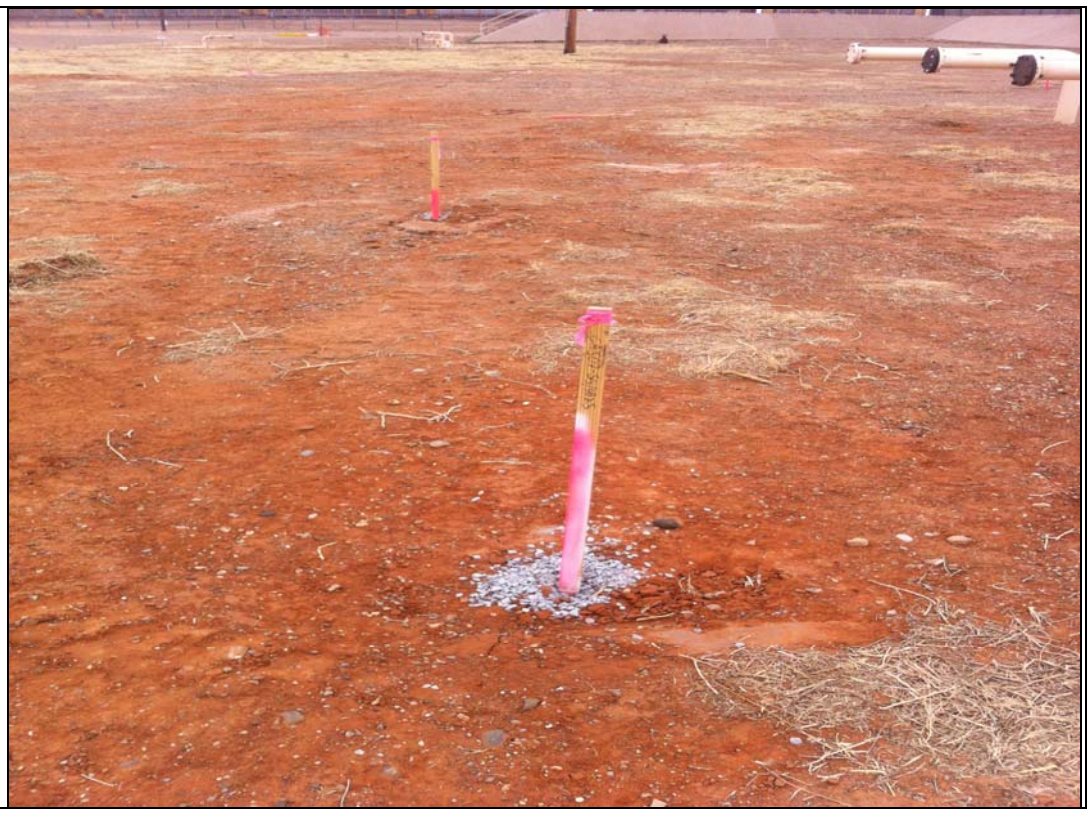
Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 47

Description:

SS-C507

Surface soil sample location CA507-SS25.

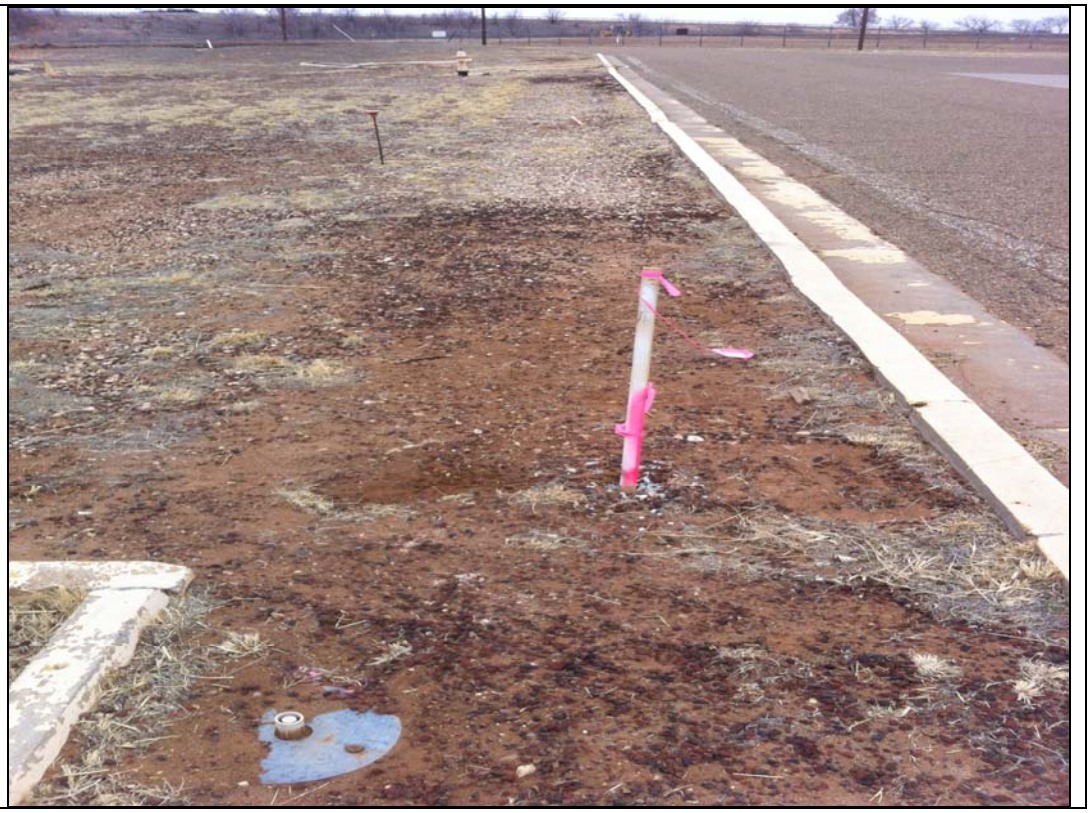


Photograph No. 48

Description:

SS-C507

Surface soil sample location CA507-SS26.



SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 49

Description:

SS-C507

Surface soil sample location CA507-SS32.

Photograph No. 50

Description:

SS-C507

Surface soil sample location CA507-SS33.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 51

Description:

SS-C507

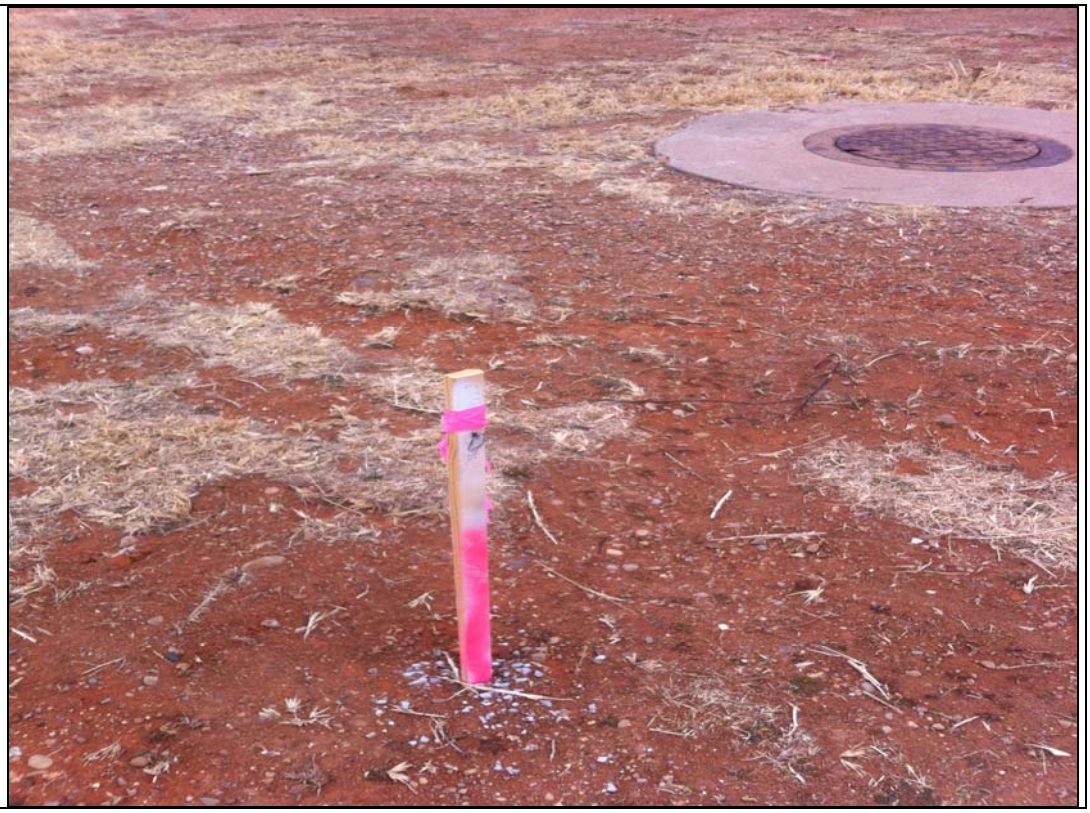
Surface soil sample location CA507-SS34.

Photograph No. 52

Description:

SS-C507

Surface soil sample location CA507-SS35.



SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 53

Description:

SS-C507

Surface soil sample location CA507-SS36.

Photograph No. 54

Description:

SS-C507

Surface soil sample location CA507-SS37.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 55

Description:

SS-C507

Surface soil sample location CA507-SS38.

Photograph No. 56

Description:

SS-C507

Surface soil sample location CA507-SS39.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 57

Description:

SS-C507

Surface soil sample location CA507-SS50.

Photograph No. 58

Description:

SS-C507

Surface soil sample location CA507-SS51.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 59

Description:

SS-C507

Surface soil sample location CA507-SS52.

Photograph No. 60

Description:

SS-C507

Surface soil sample location CA507-SS54.

SITE ACTIVITIES PHOTOGRAPHIC LOG

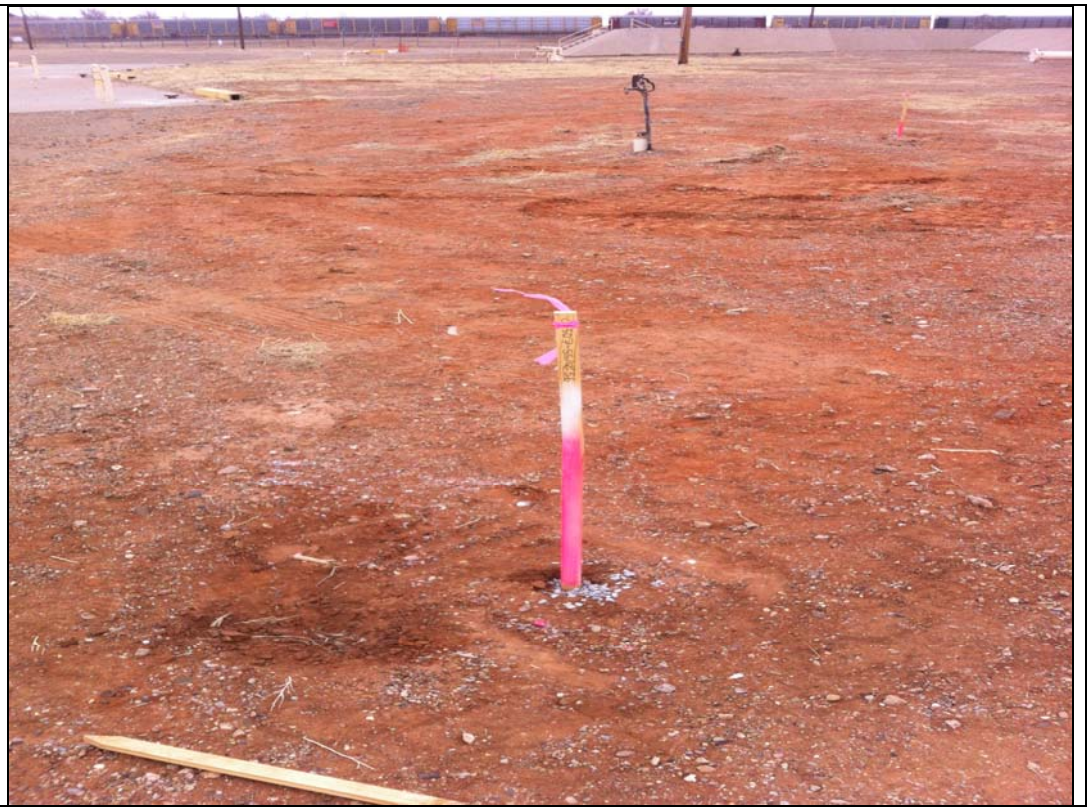
Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 61

Description:

SS-C507

Surface soil sample location CA507-SS56.



Photograph No. 62

Description:

SS-C507

Surface soil sample location CA507-SS57.

SITE ACTIVITIES PHOTOGRAPHIC LOG

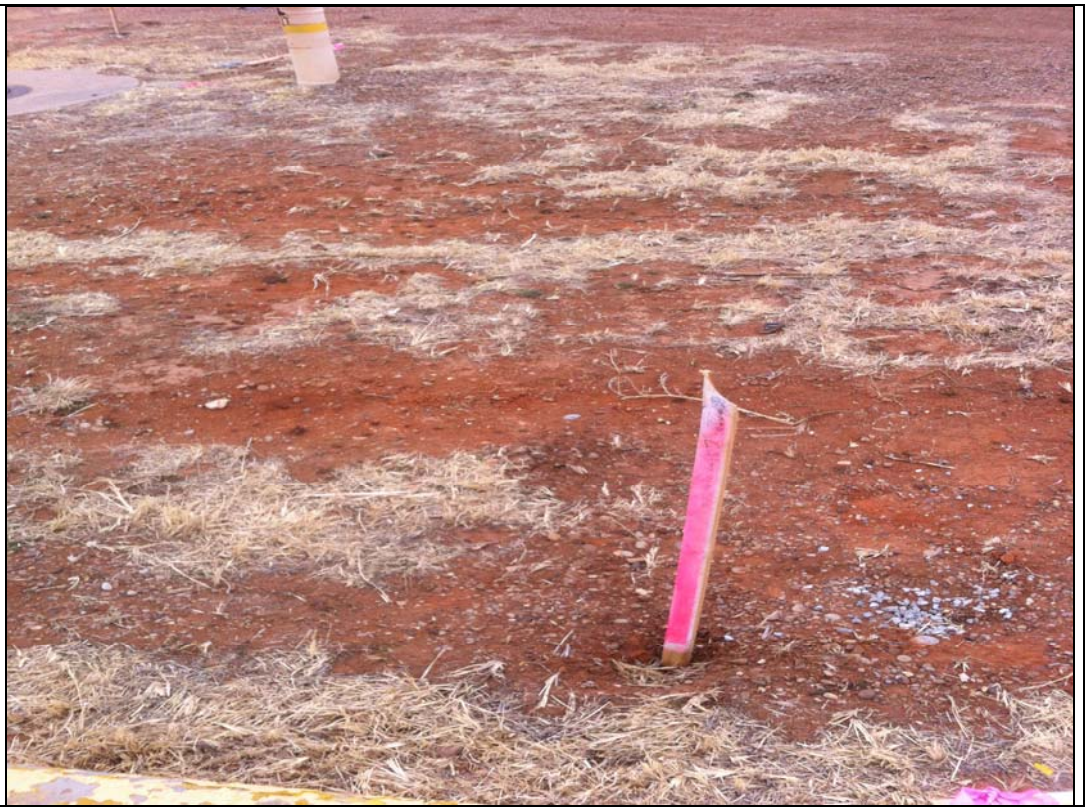
Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 63

Description:

SS-C507

Surface soil sample location CA507-SS59.



Photograph No. 64

Description:

SS-C507

Surface soil sample location CA507-SS60.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 65

Description:

SS-C507

Surface soil sample location CA507-SS61.

Photograph No. 66

Description:

SS-C507

Surface soil sample location CA507-SS62.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 67

Description:

SS-C507

Surface soil sample location CA507-SS63.

Photograph No. 68

Description:

SD-C508

View of the site looking north.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 69

Description:

SD-C508

View of the site looking northwest.

Photograph No. 70

Description:

SD-C508

View of the site looking southwest.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 71

Description:

SD-C508

View of the site looking southeast.

Photograph No. 72

Description:

SD-C508

Surface soil sample location CA508-SS01.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 73

Description:

SD-C508

Surface soil sample location CA508-SS02.

Photograph No. 74

Description:

SD-C508

Surface soil sample location CA508-SS03.

SITE ACTIVITIES PHOTOGRAPHIC LOG

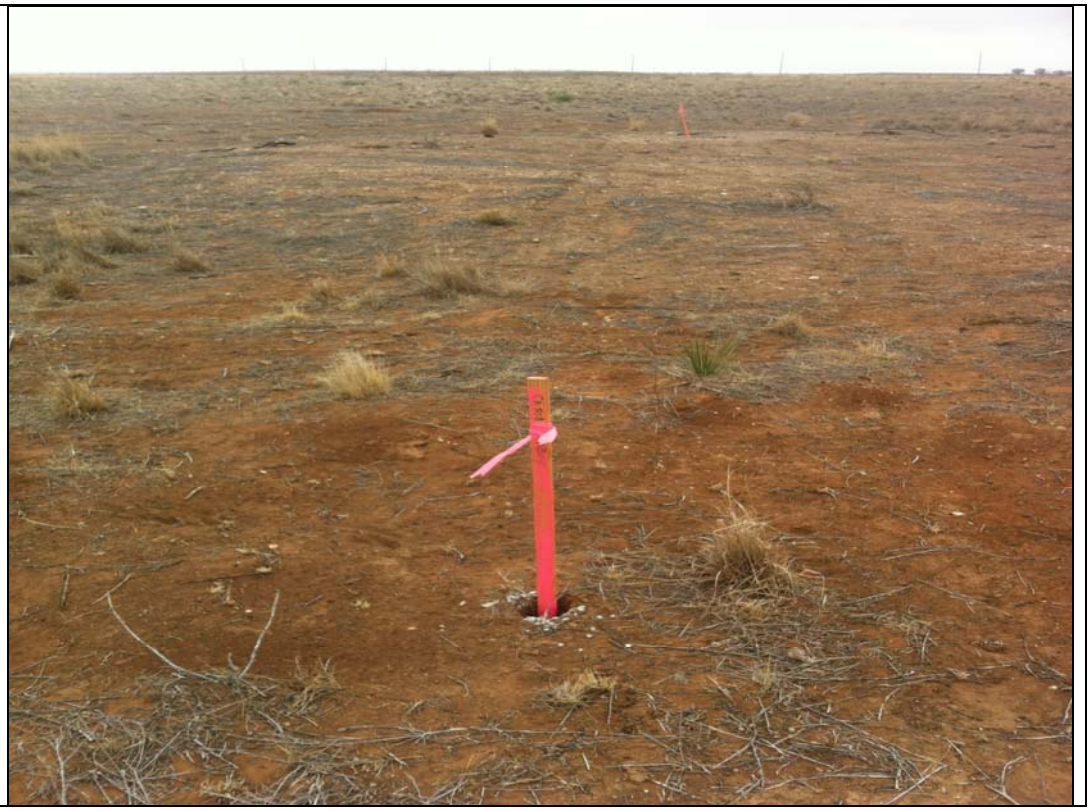
Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 75

Description:

SD-C508

Surface soil sample location CA508-SS04.

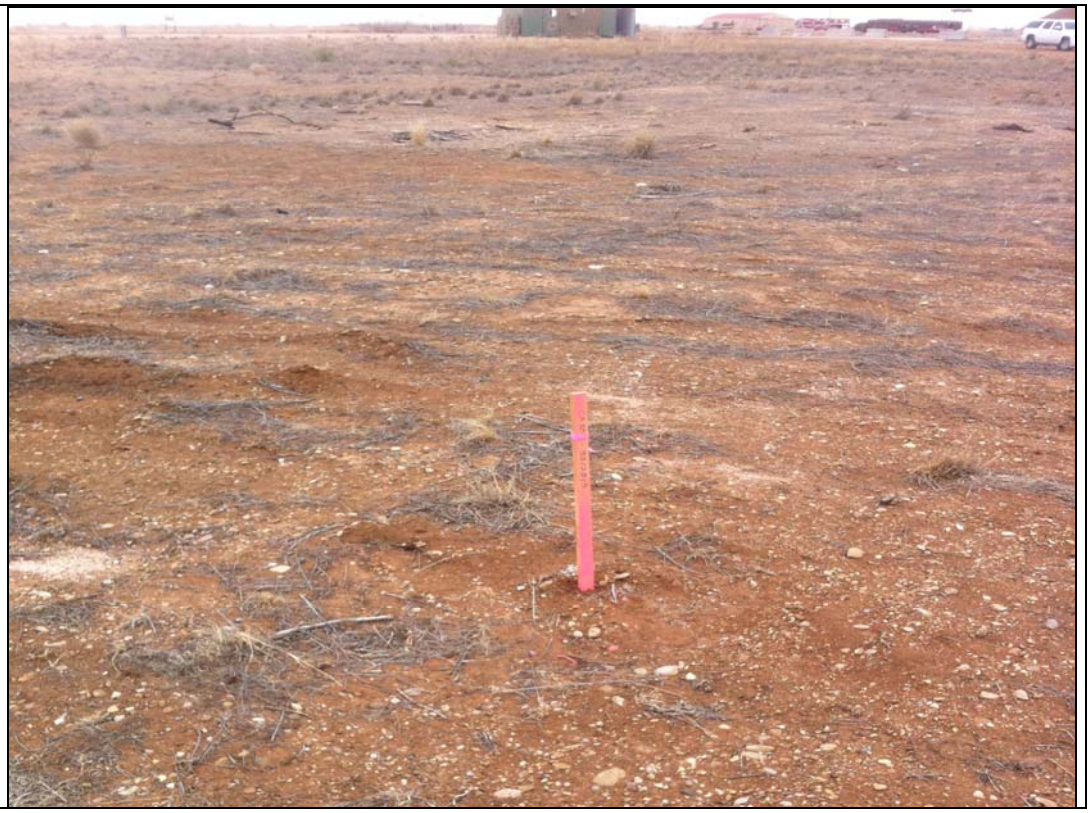


Photograph No. 76

Description:

SD-C508

Surface soil sample location CA508-SS05.



SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 77

Description:

SD-C508

Surface soil sample location CA508-SS06.

Photograph No. 78

Description:

SD-C508

Surface soil sample location CA508-SS07.

SITE ACTIVITIES PHOTOGRAPHIC LOG

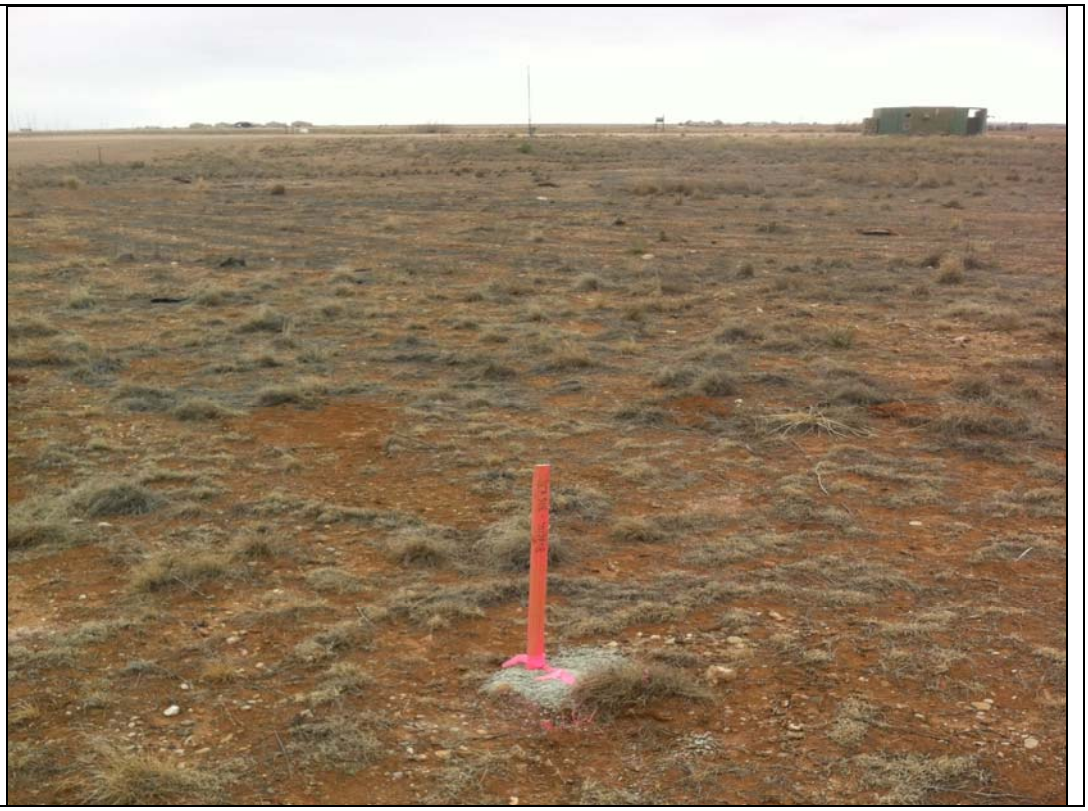
Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 79

Description:

SD-C508

Surface soil sample location CA508-SS08.



Photograph No. 80

Description:

SD-C508

Surface soil sample location CA508-SS09.

SITE ACTIVITIES PHOTOGRAPHIC LOG

Site Investigation at Eight Sites Cannon Air Force Base, New Mexico	Air Force Civil Engineer Center	Contract No. FA8903-08D-8783 Task Order No. 0169

Photograph No. 81

Description:

TA/AS-C129

View of the site looking northeast.

Photograph No. 82

Description:

TA/AS-C129

View of the site looking southeast.

Data Verifications

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA508-SB06-004	1/22/2013	1/23/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB06-010	1/22/2013	1/23/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB07-005	1/22/2013	1/23/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB07-009	1/22/2013	1/23/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB09-005	1/22/2013	1/23/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB09-010	1/22/2013	1/23/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SS06-001	1/22/2013	1/23/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SS07-001	1/22/2013	1/23/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SS09-001	1/22/2013	1/23/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated lead was detected in a method blank at levels > ½ the LOQ but less than the LOQ. VOC surrogate and internal standard recoveries were outside evaluation criteria. SVOC and low-level PAH samples CA508-SS07-001 and CA508-SS09-001 were initially analyzed at a dilution due to dark colored extracts. Pesticides CCV recoveries were outside evaluation criteria and a metals MS recovery was outside evaluation criteria. These issues are discussed further in the appropriate sections below.

The cooler receipt form indicated corrections were made on the COC by the field crew and were not initialed. The URS chemist and laboratory confirmed all corrections were made by URS. VOC sample CA508-SB09-005 had two MeOH vials and only one HCl preserved VOA vial. GRO sample CA508-SB09-005 had only one MeOH vial and one HCl preserved VOA vial. Sufficient volume remained to complete all requested analyses. No qualification of data was required.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RKN074**		
Instrument:	**F4**		
Date of Tuning:	**11/21/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RAN218**		
Instrument:	**F4**		
Date of Tuning:	**1/24/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RAN240**		
Instrument:	**F4**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RKH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RAH194**		
Instrument:	**E7**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RAH194**		
Instrument:	**E7**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D Instrument Tuning Criteria (Filename)	**RAH256**		
Instrument:	**E7**		
Date of Tuning:	**1/29/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6A19001.D**		
Instrument:	**F6**		
Date of Tuning:	**1/30/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Breakdown Check

Method 8081B (Endrin and DDT) (Filename)	**MA08007A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA24016A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/24/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8081B (Endrin and DDT) (Filename)	**MA24030A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA24043A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

6.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8270D / 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/4/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8081B Initial Calibration Criteria			
Instrument:	**E8**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8330A Initial Calibration Criteria			
Instrument:	**81**		
Date of Calibration:	**9/25/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**1/30/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 7471B Initial Calibration Criteria			
Instrument:	**47**		
Date of Calibration:	**2/1/2013**		
	Yes	**No**	**N/A**
Was a minimum of five standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

7.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVF4K211**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**4/20/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D/ SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/29/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/4/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8081B ICV Criteria (Filename)	**MA08024A**		
Instrument:	**E8**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SJ02043A**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8330A ICV Criteria (Filename)	**XI25010A**		
Instrument:	**81**		
Date of Initial Calibration Verification:	**9/25/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 15% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B02009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**4/20/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B ICV Criteria (Filename)	**M47B001007**		
Instrument:	**47**		
Date of Initial Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

8.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4K2132**		
Instrument:	**F4**		
Date of Calibration Verification:	**1/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CV0F4K2133**		
Instrument:	**F4**		
Date of Calibration Verification:	**1/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D / 8270D-SIM CCV Criteria (Filename)	**CSVE7K2724**		
Instrument:	**E7**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D CCV Criteria (Filename)	**CSVE7K2726**		
Instrument:	**E7**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8015C GRO CCV Criteria (Filename)	**EA23012A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA23023A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA23034A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA25060/61A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA25072/73A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA25080/81A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8081B CCV Criteria (Filename)	**MA24017A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?		X	

The methoxychlor CCV recovery (+36%) was outside evaluation criteria (±20%). The recovery was above evaluation criteria, indicating a possible high bias. All associated data were nondetect; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA24031A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?		X	

The methoxychlor CCV recovery (+38%) was outside evaluation criteria (±20%). The recovery was above evaluation criteria, indicating a possible high bias. All associated data were nondetect; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA24044A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

The methoxychlor CCV recovery (+21%) was outside evaluation criteria (±20%). The recovery was above evaluation criteria, indicating a possible high bias. All associated data were nondetect; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA24053A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28002A**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28017A**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28030A**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8330A CCV Criteria (Filename)	**XA30002A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 15% of expected value from the ICAL?	X		

Method 8330A CCV Criteria (Filename)	**XA30013A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 15% of expected value from the ICAL?	X		

Method 8330A CCV Criteria (Filename)	**XA30024A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 15% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**FB02095**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**FB02106**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 7471B CCV Criteria (Filename)	**M47B001009**		
Instrument:	**47**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B001021**		
Instrument:	**47**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B001033**		
Instrument:	**47**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

9.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Blank ID	**Parameter**	**Analyte**	**Concentration**	**LOQ**	**Units**
IMB004SB	Metals	Lead	0.0544	0.500	mg/kg

Associated results were at concentrations greater than five times (5X) the associated blank concentration and did not require qualification.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

10.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8081B/8082A/8330A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA508-SS07-001	VOCs	4-Bromofluorobenzene	**132**	85-120
CA508-SS09-001	VOCs	4-Bromofluorobenzene	**123**	85-120

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. As discussed in Section 1.0, the sample extracts had a dark color and matrix interference was evident.

Field ID	Parameter	Analyte	Qualification
CA508-SS07-001	VOCs	*m,p*-Xylene	**J**

12.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
CA508-SS07-001	VOCs	1,2-Dichlorobenzene	**204751**	1030560-257640
CA508-SS09-001	VOCs	1,2-Dichlorobenzene	**245435**	1030560-257640

The internal standard recoveries in the table above are below evaluation criteria which would cause a high bias in the calculation of sample results. Analytical data which were reported as nondetect and associated with internal standard recoveries below evaluation criteria, indicating a possible high bias, did not require qualification. The only detected analyte for sample CA508-SS07-001 was *m,p*-xylene, which was previously qualified as estimated due to high surrogate recovery in Section 11.0. No further qualification of data was required.

13.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA508-SB06-010 was spiked and analyzed for VOCs, SVOCs, low level PAHs, GRO, DRO, ORO, pesticides, PCBs, explosives, and metals.

14.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA508-SB06-010 was analyzed for the matrix duplicate.

15.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

Sample CA508-SB06-010 was analyzed for the dilution test.

16.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 6020A PDS Criteria	Yes	No	N/A
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Sample CA508-SB06-010 was analyzed for the post digestion spike.

17.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

18.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

19.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

SVOC and low-level PAH samples CA508-SS07-001 and CA508-SS09-001 were analyzed at a 3X dilution due to dark-colored extracts. The associated LOQs were adjusted accordingly.

Pesticides samples CA508-SS07-001 and CA508-SS09-001 were reported at 2X dilutions due to closing CCV recoveries for multiple analytes outside evaluation criteria due to matrix interference in the non-diluted runs.

20.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A082 **URS Chemist: Steve Gragert**
Date Verified: 2/18/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Additional Qualification Criteria	Yes	No	N/A
Was professional judgment used to qualify data (if yes, list below)?		X	
Were 8081B, 8082A, and 8330A results between the primary and secondary column RPD < 40%?	X		

21.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A082A **URS Chemist: Jeff Aust**
Date Verified: 2/28/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA508-SS07-001	1/22/2013	1/23/2013	Soil	Dioxins/Furans (8290)
CA508-SB07-005	1/22/2013	1/23/2013	Soil	Dioxins/Furans (8290)
CA508-SB07-009	1/22/2013	1/23/2013	Soil	Dioxins/Furans (8290)
CA508-SS06-001	1/22/2013	1/23/2013	Soil	Dioxins/Furans (8290)
CA508-SB06-004	1/22/2013	1/23/2013	Soil	Dioxins/Furans (8290)
CA508-SB06-010	1/22/2013	1/23/2013	Soil	Dioxins/Furans (8290)
CA508-SS09-001	1/22/2013	1/23/2013	Soil	Dioxins/Furans (8290)
CA508-SB09-005	1/22/2013	1/23/2013	Soil	Dioxins/Furans (8290)
CA508-SB09-010	1/22/2013	1/23/2013	Soil	Dioxins/Furans (8290)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The case narrative indicated some samples had ion abundance ratios and internal standard recoveries outside evaluation criteria. These issues are addressed in the appropriate sections below. No other issues were listed in the case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside of holding time extracted/analyzed < 2x holding time?			X
Were samples outside of holding time extracted/analyzed > 2x holding time?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A082A **URS Chemist: Jeff Aust**
Date Verified: 2/28/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

4.0 Instrument Performance Check (Tuning)

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-02**		
Date of Tuning:	**8/6/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-02**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-02**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-02**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A082A **URS Chemist: Jeff Aust**
Date Verified: 2/28/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-02**		
Date of Tuning:	**2/9/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

5.0 GC Column Performance Check

Method 8290 GC Column Performance Check	**U229993**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**8/6/2012**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**U232846**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**U232859**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A082A **URS Chemist: Jeff Aust**
Date Verified: 2/28/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 GC Column Performance Check	**U232859**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**2/7/2013**		
	Yes	**No**	**N/A**
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**U232873**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**U232887**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

6.0 Initial Calibration

Method 8290 Initial Calibration Criteria			
Instrument:	**E-HRMS-02**		
Date of Calibration:	**8/6/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis, as needed by the failure of calibration verification standard, and when a new lot is used as a standard source for	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A082A **URS Chemist: Jeff Aust**
Date Verified: 2/28/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Initial Calibration Criteria			
Instrument:	**E-HRMS-02**		
Date of Calibration:	**8/6/2012**		
	Yes	**No**	**N/A**
HRCC-3, sample fortification (IS), or recovery solutions?			
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
Was the S/N ratio ≥ 10 for all target analyte ions?	X		
Was the RSD ≤ 20% for the response factors (RF) for all 17 unlabeled standards and RSD ≤ 20% for the RFs for the 9 labeled IS?	X		

7.0 Calibration Verification

Method 8290 Calibration Verification Criteria (Filename)	**U232847**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**U232858**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**U232860**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A082A **URS Chemist: Jeff Aust**
Date Verified: 2/28/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Calibration Verification Criteria (Filename)	**U232860**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**U232872**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**U232874**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**U232886**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A082A **URS Chemist: Jeff Aust**
Date Verified: 2/28/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Calibration Verification Criteria (Filename)	**U232888**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**U232901**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch, after calibration standards and before samples?	X		
Were target analytes detected ≥ ½ the LOD or ≥ 5% of the regulatory limit or ≥ 5% of the sample result, whichever is greater per Method 8290?		X	
Were target analytes detected in the method blank?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Sample Duplicate

Sample Duplicate Criteria	**Yes**	**No**	**N/A**
Was a sample duplicate analyzed with every preparatory batch?	X		
Was a sample duplicate collected for this SDG?		X	
Were RPDs ≤ 25% (between sample and sample duplicate)			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A082A **URS Chemist: Jeff Aust**
Date Verified: 2/28/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

11.0 Matrix Spike/Matrix Spike Duplicate

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA-508-SB06-010 was spiked and analyzed.

12.0 Internal Standards (IS)

Method 8290 IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples, standards and QC samples?	X		
Were internal standard recoveries within 40% to 135%?		X	

Field ID	IS	IS Area Recovery
CA508-SS07-001	13C-OCDD	**39**
CA508-SS09-001	13C-OCDD	**38**

Analytical data that required qualification based on IS data are included in the table below.

Field ID	Analyte	Qualification
CA508-SS07-001	OCDD	**J**
CA508-SS09-001	OCDD	**J**

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A082A **URS Chemist: Jeff Aust**
Date Verified: 2/28/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

15.0 Sample PCDD/PCDF Identification

Sample PCDD/PCDF Identification Criteria	Yes	No	N/A
Were ion abundance ratios for each analyte within QC limits?		X	

Field ID	Analyte	Qualification
CA508-SS07-001	1,2,3,4,6,7,8-HpCDD	**J**
CA508-SB07-005	OCDD	**J**
CA508-SS06-001	1,2,3,6,7,8-HxCDD	**J**
CA508-SS06-001	OCDF	**J**
CA508-SB06-004	1,2,3,4,6,7,8-HpCDD	**J**
CA508-SS09-001	1,2,3,7,8-PeCDD	**J**
CA508-SS09-001	1,2,3,4,7,8-HxCDF	**J**
CA508-SS09-001	2,3,4,6,7,8-HxCDF	**J**
CA508-SB09-005	1,2,3,7,8,9-HxCDD	**J**
CA508-SB09-010	1,2,3,7,8,9-HxCDD	**J**
CA508-SB06-010	OCDD	**J**

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA508-SB01-004	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB01-009	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB01-015	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB01-020	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB02-003	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB02-010	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB02-015	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB04-004	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB04-009	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA508-SB04-014	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB501-004	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SS01-001	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SS02-001	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SS04-001	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SS501-001	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated VOC surrogate recoveries were outside evaluation criteria. Three SVOC and low level PAH samples were analyzed at a dilution due to dark colored extracts. These issues are addressed further in the appropriate sections below. No issues were noted in the cooler receipt form.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAP111**		
Instrument:	**02**		
Date of Tuning:	**1/23/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RAP127**		
Instrument:	**02**		
Date of Tuning:	**1/24/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8260B Instrument Tuning Criteria (Filename)	**RAB148**		
Instrument:	**03**		
Date of Tuning:	**1/26/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RKH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RAH222**		
Instrument:	**E7**		
Date of Tuning:	**1/28/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B05001**		
Instrument:	**F6**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Breakdown Check

Method 8081B (Endrin and DDT) (Filename)	**MA08007A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8081B (Endrin and DDT) (Filename)	**MA08007A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA28016A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA28030A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MB05002A**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MB05017A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

6.0 Initial Calibration

Method 8260B Initial Calibration Criteria

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Instrument:	**02**		
Date of Calibration:	**1/23/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8260B Initial Calibration Criteria			
Instrument:	**02**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D / SVOC Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8270D / SVOC Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
order?			

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8081B Initial Calibration Criteria			
Instrument:	**E8**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria	
Instrument:	**D8**
Date of Calibration:	**10/3/2012**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

	Yes	No	N/A
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8330A Initial Calibration Criteria			
Instrument:	**81**		
Date of Calibration:	**9/25/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/7/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Method 7471B Initial Calibration Criteria			
Instrument:	**47**		
Date of Calibration:	**2/7/2013**		
	Yes	**No**	**N/A**
Was a minimum of five standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

7.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO02A231**		
Instrument:	**02**		
Date of Initial Calibration Verification:	**11/21/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8260B ICV Criteria (Filename)	**IVO03A251**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D / 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8081B ICV Criteria (Filename)	**MA28002A**		
Instrument:	**E8**		
Date of Initial Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8081B ICV Criteria (Filename)	**MA28003A**		
Instrument:	**E8**		
Date of Initial Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8081B ICV Criteria (Filename)	**MA28003A**		
Instrument:	**E8**		
Date of Initial Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SJ02043A**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8330A ICV Criteria (Filename)	**XI25010A**		
Instrument:	**81**		
Date of Initial Calibration Verification:	**9/25/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 15% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B050009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B ICV Criteria (Filename)	**M47B006006**		
Instrument:	**47**		
Date of Initial Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO02A2301**
Instrument:	**02**
Date of Calibration Verification:	**1/25/2013**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

	Yes	No	N/A
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2501**		
Instrument:	**03**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D / 8270D-SIM CCV Criteria (Filename)	**CSVE7K2725**		
Instrument:	**E7**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA25003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA25014A**
Instrument:	**GCT39**
Date of Calibration Verification:	**1/25/2013**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

	Yes	No	N/A
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA25025A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA25036A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA25047A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		
Method 8015C DRO/ORO CCV Criteria (Filename)	**LA28015/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA28027/28A**
Instrument:	**D5**
Date of Calibration Verification:	**1/28/2013**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

	Yes	No	N/A
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA28039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA28046/47A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8081B CCV Criteria (Filename)	**MA28003A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA28003B had a recovery for methoxychlor (35%) outside evaluation criteria (≤ 20%) on the secondary column. All data was reported from the column associated with CCV MA28003A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA28017A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA28017B had a recovery for methoxychlor (39%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA28017A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA28031A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA28031B had a recovery for methoxychlor (40%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA28031A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MB05003A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MB05003B had a recovery for methoxychlor (32%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MB05003B; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MB05018A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28043A**
Instrument:	**D8**
Date of Calibration Verification:	**1/28/2013**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

	Yes	No	N/A
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28056A**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28069A**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28082A**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		
Method 8330A CCV Criteria (Filename)	**XA30002A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 15% of expected value from the ICAL?	X		

Method 8330A CCV Criteria (Filename)	**XA30013A**
Instrument:	**81**
Date of Calibration Verification:	**1/30/2013**

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

	Yes	No	N/A
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 15% of expected value from the ICAL?	X		

Method 8330A CCV Criteria (Filename)	**XA30024A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 15% of expected value from the ICAL?	X		

Method 8330A CCV Criteria (Filename)	**XA30036A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 15% of expected value from the ICAL?	X		

Method 8330A CCV Criteria (Filename)	**XA30047A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 15% of expected value from the ICAL?	X		
Method 6020A CCV Criteria (Filename)	**F6B05016**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B05028**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**

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Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 6020A CCV Criteria (Filename)	**F6B05028**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B05040**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B05047**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B006009**		
Instrument:	**47**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B006021**		
Instrument:	**47**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

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Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 7471B CCV Criteria (Filename)	**M47B0060033**		
Instrument:	**47**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B0060045**		
Instrument:	**47**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

9.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

10.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8081B/8082A/8330A Surrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	**Parameter**	**Surrogate**	**Recovery**	**Criteria**
CA508-SS01-001	VOCs	4-Bromofluorobenzene	**124**	85-120
CA508-SS501-001	VOCs	4-Bromofluorobenzene	**129**	85-120

All data was nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias. Therefore, no qualification of data was required.

12.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

13.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA508-SB02-003 was spiked and analyzed for SVOCs, low level PAHs, pesticides, and PCBs. Sample CA508-SB02-015 was spiked and analyzed for ORO and DRO. Sample CA508-SS04-001 was spiked and analyzed for explosives. Sample CA508-SB01-020 was spiked and analyzed for metals.

14.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Sample CA508-SB01-020 was duplicated and analyzed for metals.

MD ID	Parameter	Analyte	RPD	MD Criteria
CA508-SB01-020	Metals	Barium	**108**	≤20
CA508-SB01-020	Metals	Cadmium	**74**	≤20
CA508-SB01-020	Metals	Lead	**30**	≤20

Analytical data that required qualification based on MD data are included in the table below.

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Field ID	Parameter	Analyte	Qualification
CA508-SB01-020	Metals	Barium	**J**
CA508-SB01-020	Metals	Cadmium	**J**
CA508-SB01-020	Metals	Lead	**J**

15.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

Sample CA508-SB01-020 was analyzed for the dilution test.

16.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Sample CA508-SB01-020 was analyzed for the post digestion spike.

17.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

18.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A096 **URS Chemist: Steve Gragert**
Date Verified: 2/21/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Field Duplicate Criteria	Yes	No	N/A
analytes that had concentrations < 5x the LOQ			

19.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

SVOC and low-level PAH samples CA508-SS04-001, CA508-SB01-04 and CA508-SS01-001 were analyzed at a 3X dilution due to dark-colored extracts. The associated LOQs were adjusted accordingly.

20.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?	X		
Were common laboratory contaminant concentrations < 2x the LOQ?	X		
Was professional judgment used to qualify data (if yes, list below)?		X	
Were 8081B, 8082A, and 8330A results between the primary and secondary column RPD < 40%?	X		

Field ID	Analyte	New LOQ	Qualification
CA508-SS01-001	di-n-Butylphthalate	--	**U**

21.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA508-SB04-004	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB04-009	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB04-014	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SS01-001	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SS501-001	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB01-004	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB501-004	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB01-009	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB01-015	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB01-020	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SS02-001	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB02-003	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB02-010	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB02-015	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SS04-001	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The case narrative indicated some samples had ion abundance ratios outside evaluation criteria. This issue is addressed in the appropriate section below. No other issues were listed in the case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside of holding time extracted/analyzed < 2x holding time?			X
Were samples outside of holding time extracted/analyzed > 2x holding time?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

4.0 Instrument Performance Check (Tuning)

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-04**		
Date of Tuning:	**10/14/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-04**		
Date of Tuning:	**2/9/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-04**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-03**		
Date of Tuning:	**10/29/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-03**		
Date of Tuning:	**2/1/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-03**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-03**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-02**		
Date of Tuning:	**8/6/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-02**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-02**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

5.0 GC Column Performance Check

Method 8290 GC Column Performance Check	**P160672**		
Instrument:	**E-HRMS-03**		
Date of Performance Check:	**10/29/2012**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**P162165**		
Instrument:	**E-HRMS-03**		
Date of Performance Check:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 GC Column Performance Check	**P162165**		
Instrument:	**E-HRMS-03**		
Date of Performance Check:	**2/1/2013**		
	Yes	**No**	**N/A**
windows documented by labeling (F/L) on the chromatogram?			
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**P162218**		
Instrument:	**E-HRMS-03**		
Date of Performance Check:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**P162231**		
Instrument:	**E-HRMS-03**		
Date of Performance Check:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**P162241**		
Instrument:	**E-HRMS-03**		
Date of Performance Check:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 GC Column Performance Check	**P162241**		
Instrument:	**E-HRMS-03**		
Date of Performance Check:	**2/6/2013**		
	Yes	**No**	**N/A**
seconds for all components of the mixture?			

Method 8290 GC Column Performance Check	**P219401**		
Instrument:	**E-HRMS-04**		
Date of Performance Check:	**9/14/2012**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**P221423**		
Instrument:	**E-HRMS-04**		
Date of Performance Check:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**P221453**		
Instrument:	**E-HRMS-04**		
Date of Performance Check:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 GC Column Performance Check	**U229993**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**8/6/2012**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**U232846**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**U232873**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

6.0 Initial Calibration

Method 8290 Initial Calibration Criteria			
Instrument:	**E-HRMS-03**		
Date of Calibration:	**10/29/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis, as needed by the failure of calibration verification standard, and when a new lot is used as a standard source for HRCC-3, sample fortification (IS), or recovery solutions?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
Was the S/N ratio ≥ 10 for all target analyte ions?	X		
Was the RSD ≤ 20% for the response factors (RF) for all 17 unlabeled standards and RSD ≤ 20% for the RFs for the 9 labeled IS?	X		

Method 8290 Initial Calibration Criteria			
Instrument:	**E-HRMS-02**		
Date of Calibration:	**8/6/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis, as needed by the failure of calibration verification standard, and when a new lot is used as a standard source for HRCC-3, sample fortification (IS), or recovery solutions?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
Was the S/N ratio ≥ 10 for all target analyte ions?	X		
Was the RSD ≤ 20% for the response factors (RF) for all 17 unlabeled standards and RSD ≤ 20% for the RFs for the 9 labeled IS?	X		

Method 8290 Initial Calibration Criteria			
Instrument:	**E-HRMS-04**		
Date of Calibration:	**9/14/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis, as needed by the failure of calibration verification standard, and when a new lot is used as a standard source for HRCC-3, sample fortification (IS), or recovery solutions?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
Was the S/N ratio ≥ 10 for all target analyte ions?	X		
Was the RSD ≤ 20% for the response factors (RF) for all 17 unlabeled standards and RSD ≤ 20% for the RFs for the 9 labeled IS?	X		

7.0 Calibration Verification

Method 8290 Calibration Verification Criteria (Filename)	**P162164**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Calibration Verification Criteria (Filename)	**P162164**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
the analytical sequence?			
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P162177**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/2/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P162219**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P162230**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Calibration Verification Criteria (Filename)	**P162230**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
ICAL?			

Method 8290 Calibration Verification Criteria (Filename)	**P162232**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P162240**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P162253**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Calibration Verification Criteria (Filename)	**P221425**		
Instrument:	**E-HRMS-04**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P221432**		
Instrument:	**E-HRMS-04**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P221454**		
Instrument:	**E-HRMS-04**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P221460**		
Instrument:	**E-HRMS-04**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Calibration Verification Criteria (Filename)	**P221460**		
Instrument:	**E-HRMS-04**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**U232847**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**U232858**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**U232874**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Calibration Verification Criteria (Filename)	**U232886**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch, after calibration standards and before samples?	X		
Were target analytes detected ≥ ½ the LOD or ≥ 5% of the regulatory limit or ≥ 5% of the sample result, whichever is greater per Method 8290?		X	
Were target analytes detected in the method blank?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Sample Duplicate

Sample Duplicate Criteria	**Yes**	**No**	**N/A**
Was a sample duplicate analyzed with every preparatory batch?	X		
Was a sample duplicate collected for this SDG?		X	
Were RPDs ≤ 25% (between sample and sample duplicate)			X

11.0 Matrix Spike/Matrix Spike Duplicate

MS/MSD Criteria	**Yes**	**No**	**N/A**
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?		X	
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

12.0 Internal Standards (IS)

Method 8290 IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples, standards and QC samples?	X		
Were internal standard recoveries within 40% to 135%?		X	

Field ID	IS	IS Area Recovery
CA508-SS01-001	13C-OCDD	**37**
CA508-SS501-001	13C-OCDD	**37**
CA508-SB501-004	13C-OCDD	**36**

Analytical data that required qualification based on IS data are included in the table below.

Field ID	Analyte	Qualification
CA508-SS01-001	OCDD	**J**
CA508-SS501-001	OCDD	**J**
CA508-SB501-004	OCDD	**J**

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.		X	
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA508-SS01-001	CA508-SS501-001
CA508-SB01-004	CA508-SB501-004

Analytical data that required qualification based on parent sample / field duplicate RPDs and/or differences are included in the table below.

Parent Sample ID	Field Duplicate Sample ID	Analyte	RPD or difference	Qualification
CA508-SS01-001	CA508-SS501-001	1,2,3,7,8,9-HxCDD	**57**	**J**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A096A **URS Chemist: Jeff Aust**
Date Verified: 3/4/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

15.0 Sample PCDD/PCDF Identification

Sample PCDD/PCDF Identification Criteria	Yes	No	N/A
Were ion abundance ratios for each analyte within QC limits?		X	

Field ID	Analyte	Qualification
CA508-SS04-001	1,2,3,7,8-PeCDD	**J**
CA508-SS04-001	OCDF	**J**
CA508-SB04-004	OCDD	**J**
CA508-SS01-001	1,2,3,7,8-PeCDD	**J**
CA508-SS01-001	1,2,3,6,7,8-HxCDD	**J**
CA508-SS01-001	2,3,4,7,8-PeCDF	**J**
CA508-SS01-001	1,2,3,4,7,8-HxCDF	**J**
CA508-SS501-001	1,2,3,7,8-PeCDD	**J**
CA508-SS501-001	1,2,3,4,7,8-HxCDD	**J**
CA508-SS501-001	1,2,3,6,7,8-HxCDD	**J**
CA508-SB01-004	1,2,3,4,7,8-HxCDF	**J**
CA508-SB01-004	2,3,4,6,7,8-HxCDF	**J**
CA508-SB01-004	1,2,3,4,6,7,8-HpCDF	**J**
CA508-SB01-004	1,2,3,4,7,8,9-HpCDF	**J**
CA508-SB501-004	1,2,3,7,8-PeCDD	**J**
CA508-SB501-004	1,2,3,4,7,8-HxCDD	**J**
CA508-SB501-004	1,2,3,4,7,8-HxCDF	**J**
CA508-SB501-004	2,3,4,6,7,8-HxCDF	**J**
CA508-SB501-004	2,3,4,6,7,8-HxCDF	**J**
CA508-SB501-004	OCDF	**J**
CA508-SB01-015	1,2,3,7,8,9-HxCDD	**J**
CA508-SB01-020	1,2,3,4,7,8-HxCDF	**J**
CA508-SB01-020	2,3,4,6,7,8-HxCDF	**J**

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA508-SB03-005	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB03-010	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB03-015	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB05-005	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB05-010	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB05-015	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB08-005	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SB08-010	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SS03-001	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA508-SS05-001	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SS08-001	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SS503-001	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)
CA508-SS505-001	1/23/2013	1/24/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Explosives (8330A), Metals (6020A/7471B)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated VOC MS/MSD recoveries were outside evaluation criteria. The MD recovery for barium was outside evaluation criteria. Mercury was detected in calibration blanks. These issues are discussed further in the appropriate sections below.

The cooler receipt form indicated GRO sample CA508-SB08-005 was listed on the COC as having two MeOH VOAs; however 1 MeOH and two H_2O preserved VOAs were received by the laboratory. VOC sample CA508-SB08-005 was listed on the COC as having two H_2O VOAs and one MeOH VOA; however two MeOH VOAs were received by the laboratory. Sufficient volume remained to complete all requested analyses. No qualification of data was required.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

The cooler receipt form indicated GRO sample CA508-SB08-005 was listed on the COC as having two MeOH VOAs; however 1 MeOH and two H_2O preserved VOAs were received by the laboratory. VOC sample CA508-SB08-005 was listed on the COC as having two H_2O VOAs and one MeOH VOA; however two MeOH VOAs were received by the laboratory. Sufficient volume remained to complete all requested analyses. No qualification of data was required.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RKN074**		
Instrument:	**F4**		
Date of Tuning:	**11/21/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RKN080**		
Instrument:	**F4**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8260B Instrument Tuning Criteria (Filename)	**RAN267**		
Instrument:	**F4**		
Date of Tuning:	**1/26/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RAN288**		
Instrument:	**F4**		
Date of Tuning:	**1/28/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RAJ011**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RAJ187**		
Instrument:	**E4**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6A19001.D**		
Instrument:	**F6**		
Date of Tuning:	**1/30/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 6020A Instrument Tuning Criteria (Filename)	**F6A19001.D**		
Instrument:	**F6**		
Date of Tuning:	**1/30/2013**		
	Yes	**No**	**N/A**
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Breakdown Check

Method 8081B (Endrin and DDT) (Filename)	**MA08007A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA25003A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA25017A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MB04002A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8081B (Endrin and DDT) (Filename)	**MB04016A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

6.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**11/21/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D / 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8081B Initial Calibration Criteria			
Instrument:	**E8**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8330A Initial Calibration Criteria			
Instrument:	**81**		
Date of Calibration:	**9/25/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**1/30/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Method 7471B Initial Calibration Criteria			
Instrument:	**47**		
Date of Calibration:	**2/4/2013**		
	Yes	**No**	**N/A**
Was a minimum of five standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

7.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVF4K211**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**11/21/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D/ SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8081B ICV Criteria (Filename)	**MA08024A**		
Instrument:	**E8**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SJ02043A**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8330A ICV Criteria (Filename)	**XI25010A**		
Instrument:	**81**		
Date of Initial Calibration Verification:	**9/25/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 15% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 6020A ICV Criteria (Filename)	**F6A19009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B ICV Criteria (Filename)	**M47B003007**		
Instrument:	**47**		
Date of Initial Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4K2133**		
Instrument:	**F4**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4K2134**		
Instrument:	**F4**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4K2135**		
Instrument:	**F4**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8260B CCV Criteria (Filename)	**CVOF4K2135**		
Instrument:	**F4**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D / 8270D-SIM CCV Criteria (Filename)	**CSVE4A0710**		
Instrument:	**E4**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA25003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA25014A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA25025A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8015C GRO CCV Criteria (Filename)	**EA25025A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA25039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA25051/52A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA25060/61A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8081B CCV Criteria (Filename)	**MA25004A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA25004B had a recovery for methoxychlor (25%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA25004A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA25018A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA25018B had a recovery for methoxychlor (31%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA25018A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA25031A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA25031A had a recovery for beta-BHC (22%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA25018B; therefore, no qualification of data was required.

CCV MA25031B had a recovery for methoxychlor (29%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA25018A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MB04003A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

CCV MB04003B had a recovery for methoxychlor (32%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MB04003A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MB04017A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MB04017B had recoveries for methoxychlor (30%), delta-BHC (24%), and delta-BHC (30%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MB04017A; therefore, no qualification of data was required.

Method 8082A CCV Criteria (Filename)	**SA28002A**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28017A**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28030A**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8082A CCV Criteria (Filename)	**SA28043A**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28056A**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8330A CCV Criteria (Filename)	**XA30036A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 15% of expected value from the ICAL?	X		

Method 8330A CCV Criteria (Filename)	**XA30047A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 15% of expected value from the ICAL?	X		

Method 8330A CCV Criteria (Filename)	**XA30058A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 8330A CCV Criteria (Filename)	**XA30058A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Were all project analytes within ± 15% of expected value from the ICAL?	X		

Method 8330A CCV Criteria (Filename)	**XA30067A**		
Instrument:	**81**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 15% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6A19039**		
Instrument:	**F6**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6A19051**		
Instrument:	**F6**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6A19061**		
Instrument:	**F6**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 7471B CCV Criteria (Filename)	**M47B003021**		
Instrument:	**47**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B003033**		
Instrument:	**47**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B003045**		
Instrument:	**47**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

9.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Blank ID	**Parameter**	**Analyte**	**Concentration**	**LOQ**	**Units**
M47B003022 (CCB)	Metals	Mercury	0.040	0.1	mg/kg
M47B003034 (CCB)	Metals	Mercury	0.045	0.1	mg/kg
M47B003046 (CCB)	Metals	Mercury	0.058	0.1	mg/kg

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Field ID	Parameter	Analyte	New LOQ	Qualification
CA508-SB08-005	Metals	Mercury	--	**U**
CA508-SS05-001	Metals	Mercury	--	**U**
CA508-SS505-001	Metals	Mercury	--	**U**
CA508-SB05-005	Metals	Mercury	--	**U**
CA508-SS03-001	Metals	Mercury	--	**U**
CA508-SS503-001	Metals	Mercury	--	**U**
CA508-SB03-005	Metals	Mercury	--	**U**
CA508-SB03-010	Metals	Mercury	--	**U**

10.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8081B/8082A/8330A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

12.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

13.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Sample CA508-SB08-010 was spiked and analyzed for VOCs, SVOCs, low level PAHs, GRO, DRO, ORO, pesticides, PCBs, explosives, and metals.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
CA508-SB08-010	VOCs	Vinyl chloride	109/**126**	14	60-125/30

Vinyl chloride had a MSD recovery above evaluation criteria, indicating a high bias. All associated data were nondetect; therefore, qualification of data was not required.

14.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA508-SB08-010 was duplicated and analyzed for metals.

MD ID	Parameter	Analyte	RPD	MD Criteria
CA508-SB08-010	Metals	Barium	**28**	≤20

Analytical data that required qualification based on MD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
CA508-SB08-010	Metals	Barium	**J**

15.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

Sample CA508-SB08-010 was analyzed for the dilution test.

16.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

Method 6020A PDS Criteria	Yes	No	N/A
> 50 x the LOD?			
Were the PDS recoveries within 75-125%?	X		

Sample CA508-SB08-010 was analyzed for the post digestion spike..

17.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

18.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ		X	

Parent Sample ID	Field Duplicate Sample ID
CA508-SS03-001	CA508-SS503-001
CA508-SS05-001	CA508-SS505-001

Analytical data that required qualification based on parent sample / field duplicate RPDs and/or differences are included in the table below.

Parent Sample ID	Field Duplicate Sample ID	Parameter	Analyte	RPD or difference	Qualification
CA508-SS05-001	CA508-SS505-001	PAHs	Anthracene	**>2X**	**J/J**
CA508-SS05-001	CA508-SS505-001	PAHs	Benzo(k)fluoranthene	**>2X**	**J/J**
CA508-SS05-001	CA508-SS505-001	Metals	Barium	**131**	**J/J**

19.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A097 **URS Chemist: Steve Gragert**
Date Verified: 2/20/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 8330A, 6020A, 7471B

20.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?		X	
Were 8081B, 8082A, and 8330A results between the primary and secondary column RPD < 40%?	X		

21.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A097A **URS Chemist: Jeff Aust**
Date Verified: 2/20/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA508-SB03-005	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB03-010	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB03-015	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SS08-001	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB08-005	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB08-010	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SS05-001	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SS505-001	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB05-005	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB05-010	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SB05-015	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SS03-001	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)
CA508-SS503-001	1/23/2013	1/24/2013	Soil	Dioxins/Furans (8290)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The case narrative indicated some samples had ion abundance ratios outside evaluation criteria. This issue is addressed in the appropriate section below. Some sample IDs on the COC and sample labels were listed incorrectly. Sample IDs with “SS06” and “SB06” were changed to “SS08” and “SB08”, respectively. No other issues were listed in the case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?		X
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

See Sample ID issue in Section 1.0.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A097A **URS Chemist: Jeff Aust**
Date Verified: 2/20/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside of holding time extracted/analyzed < 2x holding time?			X
Were samples outside of holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-03**		
Date of Tuning:	**10/29/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-03**		
Date of Tuning:	**2/1/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-03**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-03**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A097A **URS Chemist: Jeff Aust**
Date Verified: 2/20/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-03**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-02**		
Date of Tuning:	**8/6/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**E-HRMS-02**		
Date of Tuning:	**2/4/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

5.0 GC Column Performance Check

Method 8290 GC Column Performance Check	**P160672**		
Instrument:	**E-HRMS-03**		
Date of Performance Check:	**10/29/2012**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A097A **URS Chemist: Jeff Aust**
Date Verified: 2/20/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 GC Column Performance Check	**P162165**		
Instrument:	**E-HRMS-03**		
Date of Performance Check:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**P162218**		
Instrument:	**E-HRMS-03**		
Date of Performance Check:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**P162241**		
Instrument:	**E-HRMS-03**		
Date of Performance Check:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**U229993**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**8/6/2012**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A097A **URS Chemist: Jeff Aust**
Date Verified: 2/20/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 GC Column Performance Check	**U229993**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**8/6/2012**		
	Yes	**No**	**N/A**
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

Method 8290 GC Column Performance Check	**U232832**		
Instrument:	**E-HRMS-02**		
Date of Performance Check:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

6.0 Initial Calibration

Method 8290 Initial Calibration Criteria			
Instrument:	**E-HRMS-03**		
Date of Calibration:	**10/29/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis, as needed by the failure of calibration verification standard, and when a new lot is used as a standard source for HRCC-3, sample fortification (IS), or recovery solutions?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
Was the S/N ratio ≥ 10 for all target analyte ions?	X		
Was the RSD ≤ 20% for the response factors (RF) for all 17 unlabeled standards and RSD ≤ 20% for the RFs for the 9 labeled IS?	X		

Method 8290 Initial Calibration Criteria			
Instrument:	**E-HRMS-02**		
Date of Calibration:	**8/6/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis, as needed by the failure of calibration verification standard, and when a new lot is used as a standard source for HRCC-3, sample fortification (IS), or recovery solutions?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A097A **URS Chemist: Jeff Aust**
Date Verified: 2/20/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Initial Calibration Criteria			
Instrument:	**E-HRMS-02**		
Date of Calibration:	**8/6/2012**		
	Yes	**No**	**N/A**
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
Was the S/N ratio ≥ 10 for all target analyte ions?	X		
Was the RSD ≤ 20% for the response factors (RF) for all 17 unlabeled standards and RSD ≤ 20% for the RFs for the 9 labeled IS?	X		

7.0 Calibration Verification

Method 8290 Calibration Verification Criteria (Filename)	**P162164**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P162177**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/2/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P162219**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A097A **URS Chemist: Jeff Aust**
Date Verified: 2/20/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Calibration Verification Criteria (Filename)	**P162219**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
ICAL?			

Method 8290 Calibration Verification Criteria (Filename)	**P162230**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P162240**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P162253**		
Instrument:	**E-HRMS-03**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A097A **URS Chemist: Jeff Aust**
Date Verified: 2/20/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Method 8290 Calibration Verification Criteria (Filename)	**U232833**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

Method 8290 Calibration Verification Criteria (Filename)	**U232841**		
Instrument:	**E-HRMS-02**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch, after calibration standards and before samples?	X		
Were target analytes detected ≥ ½ the LOD or ≥ 5% of the regulatory limit or ≥ 5% of the sample result, whichever is greater per Method 8290?		X	
Were target analytes detected in the method blank?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Sample Duplicate

Sample Duplicate Criteria	**Yes**	**No**	**N/A**
Was a sample duplicate analyzed with every preparatory batch?	X		
Was a sample duplicate collected for this SDG?		X	
Were RPDs ≤ 25% (between sample and sample duplicate)			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A097A **URS Chemist: Jeff Aust**
Date Verified: 2/20/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

11.0 Matrix Spike/Matrix Spike Duplicate

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA-508-SB08-010 was spiked and analyzed.

12.0 Internal Standards (IS)

Method 8290 IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples, standards and QC samples?	X		
Were internal standard recoveries within 40% to 135%?	X		

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA508-SS05-001	CA508-SS505-001
CA508-SS03-001	CA508-SS503-001

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

15.0 Sample PCDD/PCDF Identification

Sample PCDD/PCDF Identification Criteria	Yes	No	N/A
Were ion abundance ratios for each analyte within QC limits?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: CAS 13A097A **URS Chemist: Jeff Aust**
Date Verified: 2/20/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Method: 8290

Field ID	Analyte	Qualification
CA508-SS08-001	1,2,3,6,7,8-HxCDD	**J**
CA508-SS08-001	OCDF	**J**
CA508-SB08-005	OCDD	**J**
CA508-SS05-001	OCDF	**J**
CA508-SS505-001	1,2,3,4,6,7,8-HpCDD	**J**
CA508-SS505-001	1,2,3,4,6,7,8-HpCDF	**J**
CA508-SS03-001	2,3,4,7,8-PeCDF	**J**
CA508-SS03-001	2,3,4,6,7,8-HxCDF	**J**
CA508-SS03-001	1,2,3,4,6,7,8-HpCDF	**J**
CA508-SS503-001	2,3,4,6,7,8-HxCDF	**J**
CA508-SS503-001	1,2,3,4,6,7,8-HpCDF	**J**
CA508-SB03-005	1,2,3,4,6,7,8-HpCDD	**J**

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA129-SB04-005	1/24/2013	1/25/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB04-009	1/24/2013	1/25/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB04-020	1/24/2013	1/25/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB05-005	1/24/2013	1/25/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB05-010	1/24/2013	1/25/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB05-015	1/24/2013	1/25/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB05-020	1/24/2013	1/25/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB504-009	1/24/2013	1/25/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB505-005	1/24/2013	1/25/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated a VOC internal standard recovery was outside evaluation criteria. A pesticides CCV recovery was above evaluation criteria. Lead was detected in a method blank. Professional judgment was used to qualify common laboratory contaminants. These issues are discussed further in the appropriate sections below. No issues were noted in the cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RKN074**		
Instrument:	**F4**		
Date of Tuning:	**11/21/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8260B Instrument Tuning Criteria (Filename)	**RAN267**		
Instrument:	**F4**		
Date of Tuning:	**1/26/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RAH256**		
Instrument:	**E7**		
Date of Tuning:	**1/29/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B03001**		
Instrument:	**F6**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Breakdown Check

Method 8081B (Endrin and DDT) (Filename)	**MA28002A**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8081B (Endrin and DDT) (Filename)	**MA28002A**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA28016A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA28030A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA28045A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MB05002A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8081B (Endrin and DDT) (Filename)	**MB05017A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

6.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**11/21/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D / 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8081B Initial Calibration Criteria			
Instrument:	**E8**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/5/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Method 7471B Initial Calibration Criteria			
Instrument:	**47**		
Date of Calibration:	**2/4/2013**		
	Yes	**No**	**N/A**
Was a minimum of five standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

7.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVF4K211**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**11/21/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D / 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8081B ICV Criteria (Filename)	**MA08024A**		
Instrument:	**E8**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SJ02043A**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F603009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B ICV Criteria (Filename)	**M47B003007**		
Instrument:	**47**		
Date of Initial Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

8.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4K2134**		
Instrument:	**F4**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D / 8270D-SIM CCV Criteria (Filename)	**CSVE7K2725**		
Instrument:	**E7**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D / 8270D-SIM CCV Criteria (Filename)	**CSVE7K2726**		
Instrument:	**E7**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA28003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8015C GRO CCV Criteria (Filename)	**EA28013A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA28023A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA28034A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA28046/47A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA28058/57A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA28068/69A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/26/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8081B CCV Criteria (Filename)	**MA28003A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA28003B had a recovery for methoxychlor (35%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA28003A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA28017A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA28017B had a recovery for methoxychlor (39%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA28017A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA28031A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA28031B had a recovery for methoxychlor (40%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA28031A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA28046A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?		X	

Alpha-BHC had a CCV recovery (+28%/+21%) above evaluation criteria (±20%) on both columns. All data were nondetect and associated with a CCV recovery above evaluation criteria; indicating a possible high bias. Therefore, no qualification of data was required.

CCV MA28031A had recoveries for gamma-BHC (27%) and beta-BHC (24%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA28031B; therefore, no qualification of data was required.

CCV MA28031B had recoveries for heptachlor (25%) and methoxychlor (38%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA28031A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA05003A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA05003B had a recovery for methoxychlor (32%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA05003A; therefore, no qualification of data was required.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8082A CCV Criteria (Filename)	**SA28069A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA280082A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28095A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA28106A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B03016**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 6020A CCV Criteria (Filename)	**F6B03027**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B003045**		
Instrument:	**47**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B003057**		
Instrument:	**47**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

9.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Blank ID	**Parameter**	**Analyte**	**Concentration**	**LOQ**	**Units**
IMB004SB	Metals	Lead	0.0544	0.5	mg/kg

All associated data were reported at concentrations greater than five times (5X) the associated blank concentration and did not require qualification.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

10.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8081B/8082A/8330A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

12.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
CA129-SB04-005	VOCs	1,2-Dichlorobenzene-d4	**256829**	257640-1030560

The internal standard recovery in the table above is below evaluation criteria which would cause a high bias in the calculation of sample results. The sample was re-analyzed with similar results. Analytical data which were reported as nondetect and associated with internal standard recoveries below evaluation criteria, indicating a possible high bias, did not require qualification.

13.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA129-SB04-020 was spiked and analyzed for SVOCs, low level PAHs, DRO, ORO, pesticides, and PCBs. Sample CA129-SB05-005 was spiked and analyzed for 6020A

metals. Sample CA129-SB504-009 was spiked and analyzed for mercury.

14.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA129-SB504-009 was duplicated analyzed for the matrix duplicate.

15.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

Sample CA129-SB04-020 was analyzed for the dilution test.

16.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Sample CA129-SB04-020 was analyzed for the post digestion spike.

17.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

18.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.		X	
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA129-SB04-009	CA129-SB504-009
CA129-SB05-005	CA129-SB505-005

Analytical data that required qualification based on parent sample / field duplicate RPDs and/or differences are included in the table below.

Parent Sample ID	Field Duplicate Sample ID	Parameter	Analyte	RPD or difference	Qualification
CA129-SB05-005	CA129-SB505-005	PAHs	Benzo(a)anthracene	**82**	**J/J**
CA129-SB05-005	CA129-SB505-005	PAHs	Benzo(b)fluoranthene	**70**	**J/J**
CA129-SB05-005	CA129-SB505-005	PAHs	Benzo(k)fluoranthene	**81**	**J/J**
CA129-SB05-005	CA129-SB505-005	PAHs	Benzo(a)pyrene	**76**	**J/J**
CA129-SB05-005	CA129-SB505-005	PAHs	Chrysene	**75**	**J/J**
CA129-SB05-005	CA129-SB505-005	PAHs	Fluoranthene	**58**	**J/J**
CA129-SB05-005	CA129-SB505-005	PAHs	Pyrene	**67**	**J/J**

19.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

20.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?	X		
Were common laboratory contaminant concentrations < 2x the LOQ?	X		
Was professional judgment used to qualify data (if yes, list below)?	X		
Were 8081B, 8082A, 8330A results between the primary and secondary column RPD < 40%?	X		

Field ID	Analyte	New LOQ	Qualification
CA129-SB04-005	Acetone	--	**U**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A108 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

21.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA129-SB01-004	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB01-009	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB01-015	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB01-018	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB06-003	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB06-010	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB06-015	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB06-020	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB08-004	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA129-SB08-010	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB08-015	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB08-020	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB09-004	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB10-003	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB506-010	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated a VOC MS recovery was outside evaluation criteria. SVOC and low level PAH samples for CA129-SB06-003 were analyzed at a dilution due to dark colored extract. A pesticides surrogate recovery was outside evaluation criteria. A metals MD recovery was outside evaluation criteria. Professional judgment was used to qualify common laboratory contaminants. These issues are discussed further in the

appropriate sections below. No issues were noted in the cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RAB170**		
Instrument:	**03**		
Date of Tuning:	**1/28/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RAB194**		
Instrument:	**03**		
Date of Tuning:	**1/29/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8260B Instrument Tuning Criteria (Filename)	**RAB194**		
Instrument:	**03**		
Date of Tuning:	**1/29/2013**		
	Yes	**No**	**N/A**
Table 4 of SW-846 Method 8260B?			

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RKH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RAH301**		
Instrument:	**E7**		
Date of Tuning:	**1/28/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B03001**		
Instrument:	**F6**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Breakdown Check

Method 8081B (Endrin and DDT) (Filename)	**MA08007A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8081B (Endrin and DDT) (Filename)	**MB01002A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MB01016A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MB01030A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MB05002A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MB05017A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8081B (Endrin and DDT) (Filename)	**MB05033A**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

6.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D / 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8081B Initial Calibration Criteria			
Instrument:	**E8**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/5/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Method 7471B Initial Calibration Criteria			
Instrument:	**47**		
Date of Calibration:	**2/7/2013**		
	Yes	**No**	**N/A**
Was a minimum of five standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

7.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D / 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8081B ICV Criteria (Filename)	**MA08024A**		
Instrument:	**E8**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8081B ICV Criteria (Filename)	**MB05034A**		
Instrument:	**E8**		
Date of Initial Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SJ02043A**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F603009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 7471B ICV Criteria (Filename)	**M47B006007**		
Instrument:	**47**		
Date of Initial Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CV003A2502**		
Instrument:	**03**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CV003A2503**		
Instrument:	**03**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D/8270D- SIM CCV Criteria (Filename)	**CSVE7K2728**		
Instrument:	**E7**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8015C GRO CCV Criteria (Filename)	**EA28023A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA28034A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA28044A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA28055A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA31003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA31015/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA31027/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA310139/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA31042/43A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8081B CCV Criteria (Filename)	**MB01003A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

CCV MB01003B had a recovery for methoxychlor (27%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MB01003A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MB01017A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MB01017A had recoveries for alpha-BHC (22%) and beta-BHC (21%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MB01017B; therefore, no qualification of data was required.

CCV MB01017B had recoveries for heptachlor (21%), DDT (24%), and methoxychlor (43%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MB01017A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MB01031A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MB01031B had a recovery for methoxychlor (30%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MB01031A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MB01044A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/2/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

CCV MB01044B had a recovery for methoxychlor (22%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MB01044A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MB05003A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MB05003B had a recovery for methoxychlor (32%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MB05003A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MB05018A**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB01002A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB01016A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8082A CCV Criteria (Filename)	**SB01029A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB01039A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B03071**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B03083**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B03095**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 6020A CCV Criteria (Filename)	**F6B03107**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B006057**		
Instrument:	**47**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B006069**		
Instrument:	**47**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B006078**		
Instrument:	**47**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

9.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Blank ID	Parameter	Analyte	Concentration	LOQ	Units
12A119-ICB	Metals	Selenium	0.012	0.5	µg/kg
12A119-CCB6	Metals	Selenium	0.002	0.5	µg/kg

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Field ID	Parameter	Analyte	New LOQ	Qualification
CA129-SB01-015	Metals	Selenium	--	**U**
CA129-SB01-018	Metals	Selenium	--	**U**
CA129-SB08-010	Metals	Selenium	--	**U**

10.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Surrogate Recoveries

Methods 8260B/8270D/8270D-SIM/8015C/8081B/8082A/8330A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA129-SB06-003	Pesticides	Decachlorobiphenyl	**148**	55-130

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
CA129-SB06-003	Pesticides	4,4'-DDE	**J**

12.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/8270D-SIM/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A119 **URS Chemist: Steve Gragert**
Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Methods 8260B/8270D/8270D-SIM/6020A IS Criteria	Yes	No	N/A
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
CA129-SB04-005	VOCs	1,2-Dichlorobenzene-d_4	**256829**	257640-1030560

The internal standard recovery in the table above is below evaluation criteria which would cause a high bias in the calculation of sample results. The sample was re-analyzed with similar results. Analytical data which were reported as nondetect and associated with internal standard recoveries below evaluation criteria, indicating a possible high bias, did not require qualification.

13.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Sample CA129-SB08-020 was spiked and analyzed for VOCs, SVOCs, low level PAHs, GRO, DRO, ORO, pesticides, PCBs, and metals. Sample CA129-SB01-018 was spiked and analyzed for SVOCs, low level PAHs, GRO, DRO, ORO, pesticides, PCBs, and metals.

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
CA129-SB08-020	VOCs	2,2-Dichloropropane	**161**/140	14	65-135/30
CA129-SB08-020	Pesticides	beta-BHC	**127/129**	2	60-125/30

All 2,2-dichloropropane data were nondetect and associated with an MS recovery above evaluation criteria, indicating a possible high bias. The beta-BHC results for sample CA129-SB08-020 were reported from the other column. No qualification of data was required.

14.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 2/22/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Samples CA129-SB01-018 and CA129-SB08-020 were duplicated and analyzed for metals.

MD ID	Parameter	Analyte	RPD	MD Criteria
CA129-SB08-020	Metals	Barium	**80**	≤20%

Analytical data that required qualification based on MD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
CA129-SB08-020	Metals	Barium	**J**

15.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

Samples CA129-SB01-018 and CA129-SB08-020 were analyzed for the dilution test.

16.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Samples CA129-SB01-018 and CA129-SB08-020 were analyzed for the post digestion spike.

17.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

18.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA129-SB06-010	CA129-SB506-010

19.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

SVOC and low level PAH samples for CA129-SB06-003 were analyzed at a 3X dilution due to dark colored extract.

20.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?	X		
Were common laboratory contaminant concentrations < 2x the LOQ?		X	
Was professional judgment used to qualify data (if yes, list below)?	X		
Were 8081B, 8082A and 8330A results between the primary and secondary column RPD < 40%?	X		

Field ID	Analyte	New LOQ	Qualification
CA129-SB01-004	Acetone	--	**U**
CA129-SB06-020	Acetone	--	**U**

21.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA129-SB02-005	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB02-010	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB02-015	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB02-020	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB03-005	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB03-010	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB03-015	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB03-020	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB03-025	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA129-SB07-005	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB07-010	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB07-015	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB07-020	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA129-SB503-005	1/25/2013	1/26/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), Organochlorine Pesticides (8081B), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated VOC CCV, internal standard, and surrogate recoveries were outside evaluation criteria. A pesticide CCV recovery was outside evaluation criteria. VOC and low level PAH samples for CA129-SB07-005 and CA129-SB03-005 were analyzed at a dilution. Metals MS and MD recoveries were outside evaluation criteria. Professional judgment was used to qualify common laboratory contaminants. These issues are discussed further in the appropriate sections below. No issues were noted in the cooler receipt form.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RKN074**		
Instrument:	**F4**		
Date of Tuning:	**11/21/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RAN288**		
Instrument:	**F4**		
Date of Tuning:	**1/28/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RAN308**		
Instrument:	**F4**		
Date of Tuning:	**1/29/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RKH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D / 8270D-SIM ?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RAH271**		
Instrument:	**E7**		
Date of Tuning:	**1/30/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D / 8270D-SIM ?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B02001**		
Instrument:	**F6**		
Date of Tuning:	**2/4/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Breakdown Check

Method 8081B (Endrin and DDT) (Filename)	**MA08007A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA300028A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8081B (Endrin and DDT) (Filename)	**MA30016A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA31002A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MA31016A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MB05017A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MB05033A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

6.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**11/21/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D / 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8081B Initial Calibration Criteria			
Instrument:	**E8**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/4/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 7471B Initial Calibration Criteria			
Instrument:	**47**		
Date of Calibration:	**2/12/2013**		
	Yes	**No**	**N/A**
Was a minimum of five standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

7.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4K211**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**11/21/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D / 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8081B ICV Criteria (Filename)	**MA08024A**		
Instrument:	**E8**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SJ02043A**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B02009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B ICV Criteria (Filename)	**M47B008007**		
Instrument:	**47**		
Date of Initial Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4K2135**		
Instrument:	**F4**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8260B CCV Criteria (Filename)	**CVOF4K2135**		
Instrument:	**F4**		
Date of Calibration Verification:	**1/28/2013**		
	Yes	**No**	**N/A**
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4K2136**		
Instrument:	**F4**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?		X	

The CCV recovery for n-butylbenzene (+20.6%) was above evaluation criteria (≤20%). All n-butylbenzene data were nondetect and associated with a CCV recovery above evaluation criteria; therefore, no qualification of data was required.

Method 8270D / 8270D-SIM CCV Criteria (Filename)	**CSVE7K727**		
Instrument:	**E7**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA28055A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8015C GRO CCV Criteria (Filename)	**EA28066A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA28066A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA28077A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA30014/15A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA30026/7A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA30038/9A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA30047/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8081B CCV Criteria (Filename)	**MA30003A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8081B CCV Criteria (Filename)	**MB01017A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

The CCV recovery for methoxychlor (+27%) was above evaluation criteria (≤20%). All methoxychlor data were nondetect and associated with a CCV recovery above evaluation criteria; therefore, no qualification of data was required.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8081B CCV Criteria (Filename)	**MA31003A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA31003B had recoveries for DDT (23%) and methoxychlor (51%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MA31003A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MA31017A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MA31017A had a recovery for methoxychlor (27%) outside evaluation criteria (≤20%) on the secondary column. All methoxychlor data was reported from the column associated with CCV MA31017B; therefore, no qualification of data was required.

CCV MA31017B had recoveries for DDT (31%) and methoxychlor (53%) outside evaluation criteria (≤20%) on the secondary column. All DDT data was reported from the column associated with CCV MA31017A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MB05018A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8081B CCV Criteria (Filename)	**MB05034A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MB05034B had a recovery for methoxychlor (27%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV MB05034A; therefore, no qualification of data was required.

Method 8081B CCV Criteria (Filename)	**MB05048A/B**		
Instrument:	**E8**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV MB05048A had recoveries for alpha-BHC (34%), gamma-BHC (32%), beta-BHC (32%), and delta-BHC (29%) outside evaluation criteria (≤20%) on the secondary column. All alpha-BHC, gamma-BHC, beta-BHC, and delta-BHC data was reported from the column associated with CCV MB05048B; therefore, no qualification of data was required.

CCV MB05048B had recoveries for heptachlor (22%) and methoxychlor (25%) outside evaluation criteria (≤20%) on the secondary column. All heptachlor data was reported from the column associated with CCV MB05048A; therefore, no qualification of data was required.

Method 8082A CCV Criteria (Filename)	**SA30004A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 8082A CCV Criteria (Filename)	**SA30017A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SA300029A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B02038**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B02050**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B02071**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

Method 6020A CCV Criteria (Filename)	**F6B02083**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B008009**		
Instrument:	**47**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B0080021**		
Instrument:	**47**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B0080033**		
Instrument:	**47**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B0080045**		
Instrument:	**47**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

9.0 Blank Samples

Blank Criteria	Yes	No	N/A
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Blank ID	Parameter	Analyte	Concentration	LOQ	Units
12A120-CCB4	Metals	Selenium	0.007	0.5	µg/kg
12A120-CCB4	Metals	Cadmium	0.002	0.5	µg/kg
12A120-CCB5	Metals	Arsenic	0.001	0.5	µg/kg
12A120-CCB5	Metals	Selenium	0.008	0.5	µg/kg
12A120-CCB5	Metals	Cadmium	0.001	0.5	µg/kg
12A120-CCB7	Metals	Arsenic	0.002	0.5	µg/kg
12A120-CCB7	Metals	Selenium	0.005	0.5	µg/kg
12A120-CCB7	Metals	Lead	0.161	0.5	µg/kg
12A120-CCB8	Metals	Chromium	0.027	0.5	µg/kg
12A120-CCB8	Metals	Arsenic	0.021	0.5	µg/kg
12A120-CCB8	Metals	Selenium	0.015	0.5	µg/kg
12A120-CCB8	Metals	Cadmium	0.006	0.5	µg/kg
12A120-CCB8	Metals	Barium	0.021	0.5	µg/kg
12A120-CCB8	Metals	Lead	0.072	0.5	µg/kg

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Field ID	Parameter	Analyte	New LOQ	Qualification
CA129-SB03-010	Metals	Selenium	--	**U**
CA129-SB03-015	Metals	Selenium	--	**U**
CA129-SB03-020	Metals	Selenium	--	**U**
CA129-SB02-015	Metals	Selenium	--	**U**
CA129-SB02-020	Metals	Selenium	--	**U**
CA129-SB07-010	Metals	Selenium	--	**U**

10.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

11.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8081B/8082A/8330A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA129-SB03-005	VOCs	4-Bromofluorobenzene	**145**	85-120

All VOC data for sample CA129-SB03-005 were nondetect. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

12.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
CA129-SB03-005	VOCs	1,2-Dichlorobenzene-d4	**213204**	257640-1030560

The internal standard recovery in the table above is below evaluation criteria which would cause a high bias in the calculation of sample results. The sample was re-analyzed with similar results. Analytical data which were reported as nondetect and associated with internal standard recoveries below evaluation criteria, indicating a possible high bias, did not require qualification.

13.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA129-SB07-020 was spiked and analyzed for VOCs, SVOCs, low level PAHs,

GRO, DRO, ORO, pesticides, PCBs, and metals. Barium had a native concentration >4X the MS spike; therefore, no evaluation or qualification of data was required.

14.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Sample CA129-SB07-020 was duplicated and analyzed for metals.

MD ID	Parameter	Analyte	RPD	MD Criteria
CA129-SB07-020	Metals	Barium	**23**	≤20%

Analytical data that required qualification based on MD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
CA129-SB07-020	Metals	Barium	**J**

15.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

Sample CA129-SB07-020 was analyzed for the dilution test.

16.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Sample CA129-SB07-020 was analyzed for the post digestion spike.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

17.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

18.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.		X	
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ		X	

Parent Sample ID	Field Duplicate Sample ID
CA129-SB03-005	CA129-SB503-005

Analytical data that required qualification based on parent sample / field duplicate RPDs and/or differences are included in the table below.

Parent Sample ID	Field Duplicate Sample ID	Parameter	Analyte	RPD or difference	Qualification
CA129-SB03-005	CA129-SB503-005	PAHs	Phenanthrene	**73**	**J/J**
CA129-SB03-005	CA129-SB503-005	Metals	Barium	**55**	**J/J**
CA129-SB03-005	CA129-SB503-005	Metals	Lead	**87**	**J/J**

19.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

SVOC and low level PAH samples for CA129-SB07-005 and CA129-SB03-005 were analyzed at a 2X dilution due to dark colored extract.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A120 **URS Chemist: Steve Gragert**
Date Verified: 2/25/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8081B, 8082A, 8015C, 6020A, 7471B

20.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?	X		
Were common laboratory contaminant concentrations < 2x the LOQ?	X		
Was professional judgment used to qualify data (if yes, list below)?	X		
Were 8081B, 8082A, and 8330A results between the primary and secondary column RPD < 40%?	X		

Field ID	Analyte	New LOQ	Qualification
CA129-SB503-005	Acetone	--	**U**
CA129-SB03-025	Acetone	--	**U**
CA129-SB07-020	Acetone	--	**U**
CA129-SB503-005	Bis(2-ethylhexyl)phthalate	--	**U**

21.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA502-SB01-004	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB01-010	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB01-015	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB01-020	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB01-025	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB01-030	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB04-005	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB04-008	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB04-010	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB04-015	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB04-020	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB04-025	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)
CA502-SB04-030	1/28/2013	1/29/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO (8015C), DRO/ORO (8015C), Lead (6020A)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Verification Criteria	Yes	No	N/A
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated the MS/MSD RPD for 2-methylnaphthalene was outside evaluation criteria. This issue is addressed in the appropriate section below. Manual integration was utilized to quantitate benzo(k)fluoranthene for samples CA502-SB04-005, CA502-SB04-008 and CA502-SB04-010 and benzo(b)fluoranthene for samples CA502-SB04-008, CA502-SB04-010 and CA502-SB01-015 due to matrix interference. No qualification of data was required. The cooler receipt form indicated no problems or discrepancies were encountered.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

The COC listed the lead analysis method(s) as 6020A/7471B. The samples were logged in for 6020A analysis. No qualification of data was required.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A08**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A11**		
Instrument:	**03**		
Date of Tuning:	**1/29/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A13**		
Instrument:	**03**		
Date of Tuning:	**1/31/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2701**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2729**		
Instrument:	**E7**		
Date of Tuning:	**2/1/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/7/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B05009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2503**		
Instrument:	**03**		
Date of Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2505**		
Instrument:	**03**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2729**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**CVG39A0351**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**CVG39A0352**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**CVG39A0353**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB001027A/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB001039A/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB001051A/52A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/2/2013**		
	Yes		**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB001063A/64A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/2/2013**		
	Yes		**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B05081**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B05093**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 6020A CCV Criteria (Filename)	**F6B05105**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B05116**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D SIM/ 8015C Surrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D SIM/6020A IS Criteria	**Yes**	**No**	**N/A**
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Methods 8260B/8270D SIM/6020A IS Criteria	Yes	No	N/A
standard area?			
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were applicable internal standard areas within 30% to 120% of intensity of the IS of the ICAL.	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Sample CA502-SB01-030 was spiked and analyzed for lead. Sample CA502-SB01-025 was spiked and analyzed for PAHs

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
CA502-SB01-025	PAHs	2-Methylnaphthane	83/58	**35**	45-105/30

The 2-methylnaphthalene result for sample CA502-SB01-025 was not qualified since both recoveries were within evaluation criteria.

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

14.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA502-SB01-030 was duplicated and analyzed for lead.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

15.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for dilution test?	X		
Were metals concentrations > 50x the LOQ?		X	
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

Sample CA502-SB01-030 was diluted and analyzed for lead.

16.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Sample CA502-SB01-030 was spiked and analyzed for lead.

17.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?		X	
Were 8081B and 8330A results between the primary and secondary column RPD ≤ 40%?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A128 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA501-SB01-005	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB01-010	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB02-004	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB02-009	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB03-004	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB03-010	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB03-015	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB04-004	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB04-009	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB05-005	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB05-010	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA501-SB07-005	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB07-010	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB09-004	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB09-010	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB09-015	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB10-005	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB10-010	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB503-004	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB509-004	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB509-010	1/29/2013	1/30/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated a VOC CCV recovery was outside evaluation criteria. A surrogate recovery for a PCB CCV sample was outside evaluation criteria. Professional judgment was used to qualify some samples due to common laboratory contaminants. These issues are discussed further in the appropriate sections below. No issues were noted in the cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RKN074**		
Instrument:	**F4**		
Date of Tuning:	**11/21/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8260B Instrument Tuning Criteria (Filename)	**RBN001**		
Instrument:	**F4**		
Date of Tuning:	**2/1/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB064**		
Instrument:	**F4**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RKH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D / 8270D-SIM ?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RPH026**		
Instrument:	**E7**		
Date of Tuning:	**2/4/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D / 8270D-SIM ?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**98B02001**		
Instrument:	**98**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 6020A Instrument Tuning Criteria (Filename)	**F6B04001**		
Instrument:	**F6**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**11/21/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D / 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/5/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/6/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Method 7471B Initial Calibration Criteria			
Instrument:	**47**		
Date of Calibration:	**2/12/2013**		
	Yes	**No**	**N/A**
Was a minimum of five standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4K211**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**11/21/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D / 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KA29018A/B**		
Instrument:	**71**		
Date of Initial Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B02009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B04009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B ICV Criteria (Filename)	**M47B008007**		
Instrument:	**47**		
Date of Initial Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4K2139**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?		X	

The CCV recovery for n-butylbenzene (+22.3%) was above evaluation criteria (≤20%). All data were nondetect for n-butyl benzene and associated with a CCV above evaluation criteria. Therefore, no qualification of data was required.

Method 8260B CCV Criteria (Filename)	**CVO03A2508**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D / 8270D-SIM CCV Criteria (Filename)	**CSVE7K2730**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA31003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8015C GRO CCV Criteria (Filename)	**EA31003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
the end of the analysis sequence?			
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA31014A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA31025A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA31036A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA31047A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB04003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB040015/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB040027/8AA**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB040039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB040051/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8082A CCV Criteria (Filename)	**KB04002A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB04015A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB04028A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB04041A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV KB04041B had a recovery for PCB1260 (23%) outside evaluation criteria (≤20%) on the secondary column. All PCB1260 data was reported from the column associated with CCV KB04041A; therefore, no qualification of data was required.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8082A CCV Criteria (Filename)	**KB04054A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV KB04054B had recoveries for PCB1016 (27%) and PCB1260 (31%) outside evaluation criteria (≤20%) on the secondary column. All PCB1016 data was reported from the column associated with CCV KB04054A; therefore, no qualification of data was required.

Method 6020A CCV Criteria (Filename)	**98B02049**		
Instrument:	**98**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B02060**		
Instrument:	**98**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B04057**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 6020A CCV Criteria (Filename)	**F6B04069**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B04081**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B04093**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B008045**		
Instrument:	**47**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B008057**		
Instrument:	**47**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 7471B CCV Criteria (Filename)	**M47B008069**		
Instrument:	**47**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B008075**		
Instrument:	**47**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Blank ID	**Parameter**	**Analyte**	**Concentration**	**LOQ**	**Units**
13A142-CCB5	Metals	Selenium	0.005	0.5	µg/kg
13A142-CCB5	Metals	Barium	0.008	0.5	µg/kg
13A142-CCB5	Metals	Lead	0.010	0.5	µg/kg
13A142-CCB6	Metals	Arsenic	0.003	0.5	µg/kg
13A142-CCB6	Metals	Selenium	0.007	0.5	µg/kg
13A142-CCB6	Metals	Silver	0.002	0.5	µg/kg
13A142-CCB6	Metals	Cadmium	0.005	0.5	µg/kg
13A142-CCB6	Metals	Barium	0.001	0.5	µg/kg
13A142-CCB6	Metals	Lead	0.008	0.5	µg/kg
13A142-CCB7	Metals	Arsenic	0.008	0.5	µg/kg
13A142-CCB7	Metals	Selenium	0.016	0.5	µg/kg
13A142-CCB7	Metals	Silver	0.002	0.5	µg/kg
13A142-CCB7	Metals	Cadmium	0.006	0.5	µg/kg
13A142-CCB7	Metals	Barium	0.010	0.5	µg/kg
13A142-CCB7	Metals	Lead	0.002	0.5	µg/kg
13A142-CCB8	Metals	Arsenic	0.003	0.5	µg/kg
13A142-CCB8	Metals	Selenium	0.005	0.5	µg/kg

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Blank ID	Parameter	Analyte	Concentration	LOQ	Units
13A142-CCB8	Metals	Cadmium	0.004	0.5	µg/kg
13A142-CCB8	Metals	Barium	0.003	0.5	µg/kg

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Field ID	Parameter	Analyte	New LOQ	Qualification
CA501-SB01-010	Metals	Selenium	--	**U**
CA501-SB10-010	Metals	Selenium	--	**U**
CA501-SB10-010	Metals	Selenium	--	**U**

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082ASurrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA501-SB01-010 was spiked and analyzed for VOCs, SVOCs, low level PAHs, GRO, DRO, ORO, PCBs, and metals. Barium was not evaluated for MS analysis since the parent sample concentration was >4X the spike.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA501-SB01-010 was duplicated and analyzed for metals.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

The dilution test was performed on sample CA501-SB01-010.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on sample CA501-SB01-010.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA501-SB03-004	CA501-SB503-004
CA501-SB09-004	CA501-SB509-004
CA501-SB09-010	CA501-SB509-010

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?	X		
Were common laboratory contaminant concentrations < 2x the LOQ?	X		
Was professional judgment used to qualify data (if yes, list below)?	X		
Were 8081B, 8082A, 8330A results between the primary and secondary column RPD < 40%?	X		

Field ID	Analyte	New LOQ	Qualification
CA501-SB503-004	Acetone	--	**U**
CA501-SB03-010	Acetone	--	**U**
CA501-SB03-015	Acetone	--	**U**
CA501-SB05-005	Acetone	--	**U**
CA501-SB04-004	Acetone	--	**U**
CA501-SB01-005	Acetone	--	**U**

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A142 **URS Chemist: Steve Gragert**
Date Verified: 2/26/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A143 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA503-SB503-015	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB01-005	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB01-010	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB01-015	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB01-020	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB01-024	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB02-005	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB02-010	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB02-015	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB02-020	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB02-025	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB03-005	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB03-005	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB03-015	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB03-020	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB03-023	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB04-005	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB04-010	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB04-015	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB04-020	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA503-SB04-025	1/29/2013	1/30/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A143 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative and cooler receipt form indicated no problems or discrepancies were encountered.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A08**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A12**		
Instrument:	**03**		
Date of Tuning:	**1/30/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A143 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A13**		
Instrument:	**03**		
Date of Tuning:	**1/31/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B01**		
Instrument:	**03**		
Date of Tuning:	**2/1/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0701**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0716**		
Instrument:	**E4**		
Date of Tuning:	**2/4/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0717**		
Instrument:	**E4**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A143 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A143 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2504**		
Instrument:	**03**		
Date of Calibration Verification:	**1/30/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2505**		
Instrument:	**03**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane,	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A143 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B CCV Criteria (Filename)	**CVO03A2505**		
Instrument:	**03**		
Date of Calibration Verification:	**1/31/2013**		
	Yes	**No**	**N/A**
≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)			
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2505**		
Instrument:	**03**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0716**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0717**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB04039A/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A143 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB04051A/52A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB04063A/64A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB04075A/76A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB04085A/86A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A143 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D SIM/8015C Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D SIM/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?			X

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Samples CA503-SB04-025 and CA503-SB02-025 were spiked and analyzed for BTEX+N, low level PAHs, DRO and ORO.

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A143 **URS Chemist: Jeff Aust**
Date Verified: 2/25/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Parent Sample ID	Field Duplicate Sample ID
CA503-SB03-015	CA503-SB503-015

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?		X	
Were 8081B, 8082A and 8330A results between the primary and secondary column RPD ≤ 40%?			X

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA501-SB06-005	1/30/2013	1/31/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB06-009	1/30/2013	1/31/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB08-005	1/30/2013	1/31/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB08-010	1/30/2013	1/31/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB11-005	1/30/2013	1/31/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA501-SB11-009	1/30/2013	1/31/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), PCBs (8082A), GRO/DRO/ORO (8015C), Metals (6020A/7471B)
CA502-SB08-005	1/30/2013	1/31/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), Lead (6020A)
CA502-SB08-010	1/30/2013	1/31/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), Lead (6020A)
CA502-SB08-015	1/30/2013	1/31/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), Lead (6020A)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated a barium matrix duplicate %D was outside evaluation criteria. This issue is discussed further in the appropriate section below. No other issues

were noted in the laboratory case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RBB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB196**		
Instrument:	**03**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RAJ011**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RAJ011**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
listed in Table 3 of SW-846 Method 8270D / 8270D-SIM ?			

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RBJ063**		
Instrument:	**E4**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D / 8270D-SIM ?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**98B02001**		
Instrument:	**98**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B04001**		
Instrument:	**F6**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D / 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Option 2: If linear least squares regression was used was the $r \geq 0.995$?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**1/29/22013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the $r \geq 0.995$?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/5/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was $r \geq 0.995$?	X		

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/6/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was $r \geq 0.995$?	X		

Method 7471B Initial Calibration Criteria			
Instrument:	**47**		
Date of Calibration:	**2/13/2013**		
	Yes	**No**	**N/A**
Was a minimum of five standards and a calibration blank used for ICAL?	X		
Was $r \geq 0.995$?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D / 8270D-SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KA29018A/B**		
Instrument:	**71**		
Date of Initial Calibration Verification:	**1/29/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B02009**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Instrument:	**98**		
Date of Initial Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B04009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B ICV Criteria (Filename)	**M47N009007**		
Instrument:	**47**		
Date of Initial Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2514**		
Instrument:	**03**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D / 8270D-SIM CCV Criteria (Filename)	**CSVE4A0717**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8270D / 8270D-SIM CCV Criteria (Filename)	**CSVE4A0717**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA31036A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA31047A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA31058A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/2/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB06003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB060015/6A**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Instrument:	**D5**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB06026/7A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB04028A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB04041A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV KB04041B had a recovery for PCB1260 (23%) outside evaluation criteria (≤20%) on the secondary column. All PCB1016 data was reported from the column associated with CCV KB04041A; therefore, no qualification of data was required.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 8082A CCV Criteria (Filename)	**KB04054A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

CCV KB04054B had recoveries for PCB1016 (27%) and PCB1260 (31%) outside evaluation criteria (≤20%) on the secondary column. All PCB1016 data was reported from the column associated with CCV KB04054A; therefore, no qualification of data was required.

Method 6020A CCV Criteria (Filename)	**98B02060**		
Instrument:	**98**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B02072**		
Instrument:	**98**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B02083**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Method 6020A CCV Criteria (Filename)	**F6B04045**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B04057**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B009021**		
Instrument:	**47**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B009033**		
Instrument:	**47**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

Blank ID	Parameter	Analyte	Concentration	LOQ	Units
13A151-CCB5	Metals	Arsenic	0.004	0.5	µg/kg
13A151-CCB5	Metals	Selenium	0.10	0.5	µg/kg
13A151-CCB5	Metals	Barium	0.003	0.5	µg/kg
13A151-CCB5	Metals	Lead	0.045	0.5	µg/kg
13A151-CCB6	Metals	Selenium	0.009	0.5	µg/kg
13A151-CCB6	Metals	Barium	0.004	0.5	µg/kg
13A151-CCB6	Metals	Lead	0.028	0.5	µg/kg
13A151-CCB7	Metals	Selenium	0.006	0.5	µg/kg
13A151-CCB7	Metals	Barium	0.006	0.5	µg/kg
13A151-CCB7	Metals	Lead	0.018	0.5	µg/kg
13A151-CCB7	Metals	Silver	0.002	0.5	µg/kg
13A151-ICB 2	Metals	Chromium	0.004	0.5	µg/kg
13A151-ICB 2	Metals	Arsenic	0.007	0.5	µg/kg
13A151-ICB 2	Metals	Selenium	0.017	0.5	µg/kg
13A151-ICB 2	Metals	Silver	0.003	0.5	µg/kg
13A151-ICB 2	Metals	Cadmium	0.003	0.5	µg/kg
13A151-ICB 2	Metals	Barium	0.004	0.5	µg/kg
13A151-ICB 2	Metals	Lead	0.006	0.5	µg/kg
13A151-CCB4	Metals	Arsenic	0.004	0.5	µg/kg
13A151-CCB4	Metals	Selenium	0.008	0.5	µg/kg
13A151-CCB4	Metals	Silver	0.001	0.5	µg/kg
13A151-CCB4	Metals	Barium	0.004	0.5	µg/kg
13A151-CCB4	Metals	Lead	0.038	0.5	µg/kg
13A151-CCB5-2	Metals	Selenium	0.005	0.5	µg/kg
13A151-CCB5-2	Metals	Cadmium	0.003	0.5	µg/kg
13A151-CCB5-2	Metals	Barium	0.008	0.5	µg/kg
13A151-CCB5-2	Metals	Lead	0.010	0.5	µg/kg
13A151-CCB2	Metals	Mercury	0.035	0.1	µg/kg

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Field ID	Parameter	Analyte	New LOQ	Qualification
CA501-SB08-005	Metals	Mercury	--	**U**
CA501-SB08-010	Metals	Mercury	--	**U**
CA501-SB11-010	Metals	Mercury	--	**U**
CA501-SB06-005	Metals	Mercury	--	**U**

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

LCS Criteria	Yes	No	N/A
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082ASurrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA501-SB06-009 was spiked and analyzed for VOCs, SVOCs, low level PAHs, GRO, DRO, ORO, PCBs, and metals. Barium was not evaluated for MS analysis since the parent sample concentration was >4X the spike.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Sample CA501-SB06-009 was duplicated and analyzed for metals.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

MD ID	Parameter	Analyte	RPD	MD Criteria
CA501-SB06-009	Metals	Barium	**54**	≤20%

Analytical data that required qualification based on MD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
CA501-SB06-009	Metals	Barium	**J**

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

The dilution test was performed on sample CA501-SB06-009.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on sample CA501-SB06-009.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A151 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8082A, 8015C, 6020A, 7471B

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8081B, 8082A, 8330A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA502-SB02-005	1/30/2013	1/31/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead 6020A
CA502-SB02-010	1/30/2013	1/31/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead 6020A
CA502-SB02-015	1/30/2013	1/31/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead 6020A
CA502-SB02-020	1/30/2013	1/31/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead 6020A
CA502-SB02-025	1/30/2013	1/31/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead 6020A
CA502-SB02-030	1/30/2013	1/31/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead 6020A
CA503-SB05-005	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB05-010	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB05-015	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB05-020	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB05-025	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB06-005	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB06-010	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB06-015	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB06-020	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB06-025	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB07-015	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB07-020	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA503-SB07-025	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB505-010	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA503-SB505-015	1/30/2013	1/31/2013	Soil	VOCs (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated PAH sample CA503-SB07-020 was analyzed at a dilution due to a dark colored extract. This issue is discussed further in the appropriate section below.

The cooler receipt form indicated sample CA502-SB02-030 was inadvertently left off the COC. This issue is discussed in the following section. No other issues were noted in the cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

Sample CA502-SB02-030 was inadvertently left off the COC. Per URS chemist, the sample was logged in for lead, PAHs, BTEX+N, DRO and ORO analyses. The labels for all samples requesting lead analysis listed 6020A/7471B analyses on the labels. Per URS chemist, the samples were analyzed for lead by 6020A only.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

Cannon Air Force Base SI at Eight Sites Data Verification

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Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB001**		
Instrument:	**03**		
Date of Tuning:	**2/1/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB024**		
Instrument:	**03**		
Date of Tuning:	**2/4/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB064**		
Instrument:	**03**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RAL017**		
Instrument:	**E9**		
Date of Tuning:	**1/10/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RAL017**		
Instrument:	**E9**		
Date of Tuning:	**1/10/2013**		
	Yes	**No**	**N/A**
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBL007**		
Instrument:	**E9**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBL038**		
Instrument:	**E9**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B05001**		
Instrument:	**F6**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane;	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?			
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E9**		
Date of Calibration:	**1/10/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/7/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE9A101**		
Instrument:	**E9**		
Date of Initial Calibration Verification:	**1/10/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B05009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2505**		
Instrument:	**03**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2506**		
Instrument:	**03**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8260B CCV Criteria (Filename)	**CVO03A2508**		
Instrument:	**03**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE9A1006**		
Instrument:	**E9**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE9A1007**		
Instrument:	**E9**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA31036A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EA31047A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/1/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA31058A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/2/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EA31069A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/2/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB05003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB05016A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB05028/9A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB05039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB06003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB06015/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B05105**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 6020A CCV Criteria (Filename)	**F6B05116**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C Surrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	**Yes**	**No**	**N/A**
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA502-SB02-030 was spiked and analyzed for PAHs.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?		X	
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?			X

The matrix duplicate was performed on a URS sample from another SDG.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

The dilution test was performed on sample CA502-SB01-030.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on sample CA502-SB01-030.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA503-SB05-010	CA503-SB505-010
CA503-SB05-015	CA503-SB505-015

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

PAH sample CA503-SB07-020 was analyzed at a 2X dilution due to a dark colored extract.

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8081B, 8082A, 8330A results between the primary and secondary column RPD < 40%?			X

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13A152 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Completeness Criteria	Yes	No	N/A
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B007 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA502-SB08-018	1/30/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB08-025	1/30/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB08-030	1/30/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB12-005	1/31/2013	2/1/2013	Soil	VOCs (8260B), SVOCs (8270D) Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), RCRA metals (6020A, 7471B)
CA502-SB12-010	1/31/2013	2/1/2013	Soil	VOCs (8260B), SVOCs (8270D) Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), RCRA metals (6020A, 7471B)
CA502-SB06-005	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB06-010	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB06-015	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB06-020	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB06-025	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB06-030	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB07-005	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB07-010	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB07-015	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB07-020	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB507-005	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB07-025	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB07-030	1/31/2013	2/1/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B007 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated SVOC LCS RPDs were outside evaluation criteria. The dilution test for lead was outside evaluation criteria. Professional judgment was used to qualify some common laboratory contaminants. These issues are discussed further in the appropriate sections below.

The cooler receipt form indicated samples CA502-SB12-005 and CA502-SB12-010 were listed on the COC for BTEX+N, PAHs, and lead analyses. This issue is discussed in the following section.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

Samples CA502-SB12-005 and CA502-SB12-010 were listed on the COC and labels for BTEX+N, PAHs, and lead analyses. Per the URS chemist, the samples were changed to VOCs, SVOCs w/low level PAHs, GRO,/DRO/ORO, RCRA metals and PCBs. No qualification of data was required.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B007 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB064**		
Instrument:	**03**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB107**		
Instrument:	**03**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB242**		
Instrument:	**03**		
Date of Tuning:	**2/11/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RAJ018**		
Instrument:	**F0**		
Date of Tuning:	**1/23/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B007 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RBF007**		
Instrument:	**F0**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D / 8270D-SIM Instrument Tuning Criteria (Filename)	**RBF034**		
Instrument:	**F0**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B05001**		
Instrument:	**F6**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B007 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

Method 8270D / 8270D-SIM Initial Calibration Criteria			
Instrument:	**F0**		
Date of Calibration:	**1/23/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B007 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

Method 8082A Initial Calibration Criteria			
Instrument:	**08**		
Date of Calibration:	**10/2/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?	X		
If non-linear regression was used were 6 points used for second order and 7 points for third order?	X		

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/7/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Method 7471B Initial Calibration Criteria			
Instrument:	**47**		
Date of Calibration:	**2/7/2013**		
	Yes	**No**	**N/A**
Was a minimum of five standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D / 8270D-SIM ICV Criteria (Filename)	**ISVC0A231**		
Instrument:	**F0**		
Date of Initial Calibration Verification:	**1/24/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B007 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SJ02043A/B**		
Instrument:	**08**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B05009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B ICV Criteria (Filename)	**M47B006007**		
Instrument:	**47**		
Date of Initial Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2508**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B007 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

Instrument:	**03**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2510**		
Instrument:	**03**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2516**		
Instrument:	**03**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D / 8270D-SIM CCV Criteria (Filename)	**CSVF0A2304**		
Instrument:	**F0**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D / 8270D-SIM CCV Criteria (Filename)	**CSVF0A2305**
Instrument:	**F0**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B007 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB04003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB04014A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/4/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB04025A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		
Method 8015C GRO CCV Criteria (Filename)	**EB04036A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB06071/2A**

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

Instrument:	**D5**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB06083/4/A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB06095/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB06107/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB07003A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within + 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B007 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

Method 8082A CCV Criteria (Filename)	**SB07015A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within + 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B05047**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B05059**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B05071**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B05081**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B007 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

Method 7471B CCV Criteria (Filename)	**M47B006069**		
Instrument:	**47**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B0060678**		
Instrument:	**47**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Blank ID	**Parameter**	**Analyte**	**Concentration**	**LOQ**	**Units**
13B007-ICB	Metals	Lead	0.002	0.5	µg/kg
13B012-CCB5	Metals	Lead	0.002	0.5	µg/kg

All associated lead results were >5X the blank contamination; therefore, no qualification of data was required.

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?		X	

LCS ID	**Parameter**	**Analyte**	**LCS Recovery**	**LCS RPD**	**LCS Criteria**
SVB012SB	SVOCs	3-Nitroaniline	102/74	**31**	25-110/30

SVB012SB	SVOCs	4-Nitroaniline	115/81	**35**	35-115/30
SVB012SB	SVOCs	4-Nitrophenol	115/77	**40**	15-140/30
SVB012SB	SVOCs	Di-n-octylphthalate	114/83	**32**	40-130/30
SVB012SB	SVOCs	Benzo(a)anthracene	110/80	**31**	50-110/30

Since all LCS recoveries were within evaluation criteria, no qualification of data was required.

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA502-SB08-030 was spiked and analyzed for BTEX, PAHs, GRO, DRO/ORO, and metals.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?			X

The matrix duplicate was performed on sample CA502-SB08-030.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?		X	
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

Dilution Test ID	Parameter	Analyte	%D
CA502-SB08-030	6020A	Lead	11

Analytical data that required qualification based on dilution test data are included in the table below.

Field ID	Parameter	Analyte	Qualification
CA502-SB08-030	6020A	Lead	**J**

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on sample CA502-SB08-030.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

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Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.		X	
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA502-SB07-005	CA502-SB507-005

Analytical data that required qualification based on parent sample / field duplicate RPDs and/or differences are included in the table below.

Parent Sample ID	Field Duplicate Sample ID	Parameter	Analyte	RPD or difference	Qualification
CA502-SB07-005	CA502-SB507-005	6020A	Lead	**54**	**J/J**

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?	X		
Were common laboratory contaminant concentrations < 2x the LOQ?	X		
Was professional judgment used to qualify data (if yes, list below)?	X		
Were 8081B, 8082A, 8330A results between the primary and secondary column RPD < 40%?	X		

Field ID	Analyte	New LOQ	Qualification
CA502-SB12-005	Acetone	0.014	**U**

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A, 7471B

sample preparation and analyses methods and units utilized?			

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B012 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA502-SB505-005	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB05-005	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB05-010	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB05-015	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB05-020	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB05-025	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB05-030	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB11-005	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB11-010	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB11-015	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB11-020	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB11-025	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB511-025	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

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Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated PAH samples CA502-SB505-005 and CA502-SB05-005 were analyzed at a dilution due to a dark colored extract. This issue is discussed further in the appropriate section below.

The cooler receipt form indicated the labels for samples requesting lead analysis listed 6020A/7471B analyses on the labels. This issue is discussed further in the following section. No other issues were noted in the cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

The labels for all samples requesting lead analysis listed 6020A/7471B analyses on the labels. Per URS chemist, the samples were analyzed for lead only.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**RBB086**		
Instrument:	**03**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB017**		
Instrument:	**03**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RAJ011**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBJ092**		
Instrument:	**E4**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**98B04001**		
Instrument:	**98**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

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Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B012 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/7/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B012 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B04009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2509**		
Instrument:	**03**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2510**		
Instrument:	**03**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0718**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B012 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0718**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB04025A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB04036A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB04047A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB04058A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B012 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LA08009A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB07003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB07015/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB07027/8/A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB07039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B012 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 6020A CCV Criteria (Filename)	**98B04052**		
Instrument:	**98**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B04064**		
Instrument:	**98**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Blank ID	**Parameter**	**Analyte**	**Concentration**	**LOQ**	**Units**
13B012-CCB4	Metals	Lead	0.006	0.5	µg/kg
13B012-CCB5	Metals	Lead	0.002	0.5	µg/kg

All associated lead results were >5X the blank contamination; therefore, no qualification of data was required.

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082ASurrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B012 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA502-SB05-030 was spiked and analyzed for BTEX+N, PAHs, GRO, DRO/ORO, and lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

The matrix duplicate was performed on sample CA502-SB05-030.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

The dilution test was performed on sample CA502-SB05-030.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B012 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on sample CA502-SB05-030.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA502-SB05-005	CA502-SB505-005
CA502-SB11-025	CA502-SB511-025

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

PAH samples CA502-SB505-005 and CA502-SB05-005 were analyzed at a 2X dilution due to a dark colored extract.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B012 **URS Chemist: Steve Gragert**
Date Verified: 2/27/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8081B, 8082A, 8330A results between the primary and secondary column RPD < 40%?			X

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B013 **URS Chemist: Steve Gragert**
Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA502-SB11-028	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB511-028	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB13-004	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), lead (6020A)
CA502-SB13-009	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), lead (6020A)
CA502-SB13-012	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), lead (6020A)
CA502-SB509-025	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB09-030	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB09-005	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB09-010	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB09-015	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB09-020	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB509-020	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB09-025	2/1/2013	2/2/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B013 **URS Chemist: Steve Gragert**
Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

A VOC CCV recovery was above evaluation criteria. This issue is discussed in the appropriate section below. No other issues were noted in the laboratory case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB107**		
Instrument:	**03**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B013 **URS Chemist: Steve Gragert**
Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**RBB107**		
Instrument:	**03**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB129**		
Instrument:	**03**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB151**		
Instrument:	**03**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RAJ011**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBJ092**		
Instrument:	**E4**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B013 **URS Chemist: Steve Gragert**
Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBJ128**		
Instrument:	**E4**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B07001**		
Instrument:	**F6**		
Date of Tuning:	**2/11/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B013 **URS Chemist: Steve Gragert**
Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?			
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B013 **URS Chemist: Steve Gragert**
Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/11/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Method 7471B Initial Calibration Criteria			
Instrument:	**47**		
Date of Calibration:	**2/12/2012**		
	Yes	**No**	**N/A**
Was a minimum of five standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B013 **URS Chemist: Steve Gragert**
Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SJ02043A**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B07009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B ICV Criteria (Filename)	**M47B008007**		
Instrument:	**47**		
Date of Initial Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2510**		
Instrument:	**03**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B013 **URS Chemist: Steve Gragert**
Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B CCV Criteria (Filename)	**CVO03A2511**		
Instrument:	**03**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?		X	

The trichlorofluoromethane CCV recovery (+20.2%) was outside evaluation criteria (±20%). The recovery was above evaluation criteria, indicating a possible high bias. All associated data were nondetect; therefore, no qualification of data was required.

Method 8260B CCV Criteria (Filename)	**CVO03A2512**		
Instrument:	**03**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0718**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0719**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B013 **URS Chemist: Steve Gragert**
Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0719**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)			
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB04047A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB04068A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB07027/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB07039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B013 **URS Chemist: Steve Gragert**
Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB07051/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB07003A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB07015A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B07034**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B07046**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**F6B07053**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B008033**		
Instrument:	**47**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7471B CCV Criteria (Filename)	**M47B008045**		
Instrument:	**47**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?		X	
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?			X

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

A matrix duplicate was performed on samples CA502-SB13-004 and CA502-SB509-020.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

Cannon Air Force Base SI at Eight Sites Data Verification

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Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

A dilution test was performed on samples CA502-SB13-004 and CA502-SB509-020.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on samples CA502-SB13-004 and CA502-SB509-020.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA502-SB09-025	CA502-SB509-025
CA502-SB11-028	CA502-SB511-028
CA502-SB09-020	CA502-SB509-020

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B013 **URS Chemist: Steve Gragert**
Date Verified: 3/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?	X		
Were common laboratory contaminant concentrations < 2x the LOQ?	X		
Was professional judgment used to qualify data (if yes, list below)?	X		
Were 8081B, 8082A, 8330A results between the primary and secondary column RPD < 40%?	X		

Field ID	Analyte	New LOQ	Qualification
CA502-SB13-009	Acetone	0.020	**U**
CA502-SB13-012	Acetone	--	**U**

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B017 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA502-SB03-005	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB03-010	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB03-015	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB03-020	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB03-025	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB03-030	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB10-005	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB10-010	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB10-015	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB10-020	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB10-025	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB10-030	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB11-035	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)
CA502-SB11-040	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B017 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?	X		

The cooler receipt form indicated the COC incorrectly requested full list RCRA metals and mercury analyses for all metals samples. The methanol vials for sample CA502-SB11-035 did not match the COC. These issues are further discussed in the following section. No issues were noted in the laboratory case narrative.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?		X
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

The COC requested full list RCRA metals and mercury analyses for all metals samples. Per URS chemist, the samples were logged in for lead only. The methanol vials for sample CA502-SB11-035 did not match the COC. Per the URS chemist, the samples were logged in via the COC. No qualification of data was required.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**RBB129**		
Instrument:	**03**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RAF018**		
Instrument:	**F0**		
Date of Tuning:	**1/23/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBF052**		
Instrument:	**F0**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D -SIM Instrument Tuning Criteria (Filename)	**RBF074**		
Instrument:	**F0**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B07001**		
Instrument:	**F6**		
Date of Tuning:	**2/11/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B017 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**F0**		
Date of Calibration:	**1/23/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B017 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/11/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVF0A231**		
Instrument:	**F0**		
Date of Initial Calibration Verification:	**1/23/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B017 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B07009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2511**		
Instrument:	**03**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVF0A2306**		
Instrument:	**F0**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVF0A2307**		
Instrument:	**F0**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B017 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8270D-SIM CCV Criteria (Filename)	**CSVF0A2307**		
Instrument:	**F0**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB06003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB06027A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11015/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11027/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B07073**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B07085**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B07097**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Method 6020A CCV Criteria (Filename)	**F6B07104**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Blank ID	**Parameter**	**Analyte**	**Concentration**	**LOQ**	**Units**
13B017-ICB	Metals	Lead	0.005	0.5	µg/kg

All associated lead results were >5X the blank contamination; therefore, no qualification of data was required.

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082ASurrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	**Yes**	**No**	**N/A**
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA502-SB03-030 was spiked and analyzed for BTEX+N, PAHs, GRO, DRO/ORO, and lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

The matrix duplicate was performed on sample CA502-SB03-030.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

The dilution test was performed on sample CA502-SB3-030.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 6020A

The post digestion spike was performed on sample CA502-SB3-030.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8081B, 8082A, and 8330A results between the primary and secondary column RPD < 40%?			X

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB62-005	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS62-001	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB62-010	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB63-005	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS63-001	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB63-010	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS37-001	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB61-005	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB61-010	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB54-005	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB54-010	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB37-005	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB537-005	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB37-010	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB36-005	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB36-010	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS36-001	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS61-001	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated VOC surrogate recoveries were outside evaluation criteria in four samples. A VOC internal standard was outside evaluation criteria in one sample. Five PAH and DRO samples were analyzed at a dilution due to dark colored extracts. These issues are discussed further in the appropriate sections below.

The cooler receipt form indicated the COC requested lead analysis only. The bottle labels indicated 6020A. Per URS chemist, the samples were analyzed for lead only by 6020A. No other issues were noted in the laboratory case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

See Section 1.0.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB031**		
Instrument:	**F4**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBN069**		
Instrument:	**F4**		
Date of Tuning:	**2/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBN094**		
Instrument:	**F4**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**RBB286**		
Instrument:	**03**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RKH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBH113**		
Instrument:	**E7**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**98B05001**		
Instrument:	**98**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria	
Instrument:	**F4**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Date of Calibration:	**2/5/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/12/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4B051**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVF0A231**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A ICV Criteria (Filename)	**SJ02043A**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B05009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4B0502**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2518**		
Instrument:	**03**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2732**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB06027A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB06039A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB06050A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		
Method 8015C GRO CCV Criteria (Filename)	**EB06061A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB06050A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB08011/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB08023/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB08035/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB08047/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		
Method 8015C DRO/ORO CCV Criteria (Filename)	**LB08059/60A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/9/2013**		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

	Yes	No	N/A
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB08003A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB08016A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB08030A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB08043A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		
Method 8082A CCV Criteria (Filename)	**SB08056A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/9/2013**		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

	Yes	No	N/A
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB08069A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB08081A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB110002A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB11015A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		
Method 6020A CCV Criteria (Filename)	**98B05044**		
Instrument:	**98**		
Date of Calibration Verification:	**2/12/2013**		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

	Yes	No	N/A
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B05068**		
Instrument:	**98**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B05080**		
Instrument:	**98**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B05089**		
Instrument:	**98**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B05098**		
Instrument:	**98**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

8.0 Blank Samples

Blank Criteria	Yes	No	N/A
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Blank ID	Parameter	Analyte	Concentration	LOQ	Units
13B018-CCB6	Metals	Lead	0.012	0.5	µg/kg
13B018-CCB7	Metals	Lead	0.014	0.5	µg/kg
13B018-CCB8	Metals	Lead	0.010	0.5	µg/kg
13B018-CCB8	Metals	Lead	0.012	0.5	µg/kg

All associated lead results were >5X the blank contamination; therefore, no qualification of data was required.

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082ASurrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA507-SS62-001	VOCs	4-Bromofluorobenzene	**139**	85-120
CA507-SS62-001	VOCs	Toluene-d_8	**123**	85-115
CA507-SS63-001	VOCs	4-Bromofluorobenzene	**136**	85-120
CA507-SS37-001	VOCs	4-Bromofluorobenzene	**135**	85-120
CA507-SS61-001	VOCs	4-Bromofluorobenzene	**136**	85-120

All data were nondetect and associated with surrogate recoveries above evaluation criteria; therefore, no qualification of data was required. The samples were reanalyzed with similar results. Only the initial analysis was reported.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
CA507-SS62-001	VOCs	1,2-Dichlorobenzene-d4	**115392**	195677-78708

The internal standard recovery in the table above is below evaluation criteria which would cause a high bias in the calculation of sample results. Analytical data which were reported as nondetect and associated with internal standard recoveries below evaluation criteria, indicating a possible high bias, did not require qualification. Sample CA507-SS62-001 was nondetect for all associated analytes.

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Samples CA507-SB62-010, CA507-SB63-010, CA507-SB61-010, and CA507-SB54-010 were spiked and analyzed for BTEX+N, PAHs, GRO, DRO/ORO, PCBs, and lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

A matrix duplicate was performed on samples CA507-SB62-010, CA507-SB63-010, CA507-SB61-010, and CA507-SB61-010.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on samples CA507-SB62-010, CA507-SB63-010, CA507-SB61-010, and CA507-SB61-010.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on samples CA507-SB62-010, CA507-SB63-010, CA507-SB61-010, and CA507-SB61-010.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA507-SB37-005	CA507-SB537-005

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B018 **URS Chemist: Steve Gragert**
Date Verified: 2/28/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

SVOC and DRO samples CA507-SS62-001, CA507-S63-001, CA507-SS36-001, and CA507-SS61-001 were analyzed at a 2X dilution due to dark-colored extracts. The associated LOQs were adjusted accordingly.

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8081B, 8082A, and 8330A results between the primary and secondary column RPD < 40%?			X

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SS39-001	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB539-005	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB39-005	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB39-010	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB38-004	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS38-001	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB538-004	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB38-009	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB38-014	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS04-001	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS504-001	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB04-004	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB04-010	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB04-015	2/3/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated a VOC surrogate recovery was outside evaluation criteria in sample CA507-SB38-009. Three PAH samples were initially analyzed at a dilution due to dark colored extracts. These issues are discussed further in the appropriate sections below.

The initial analyses of all VOCs were not reportable due to a bad injection. All samples were reinjected and analyzed within holding time criteria. No qualification of data was required.

The cooler receipt form indicated lead only was requested, while the bottle labels indicated full list 6020A. Per URS chemist, the samples were analyzed for lead only. One of the two sodium bisulfate/water preserved VOC VOA vials for sample CA507-SB38-014 arrived cracked and all liquid had drained from the vial. Enough sample volume remained in the other VOA vial. No qualification of data was required.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

The cooler receipt form indicated lead only was requested, while the bottle labels indicated 6020A only. Per URS chemist, the samples were analyzed for lead only.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAP111**		
Instrument:	**02**		
Date of Tuning:	**1/23/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBP075**		
Instrument:	**02**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RKH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBH146**		
Instrument:	**E7**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**98B05001**		
Instrument:	**98**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Instrument Tuning Criteria (Filename)	**98B05001**		
Instrument:	**98**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**02**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis?	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?		/	X

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/12/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO02A231**		
Instrument:	**02**		
Date of Initial Calibration Verification:	**1/23/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVF0A231**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SJ02043A**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A ICV Criteria (Filename)	**98B05009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO02A2303**		
Instrument:	**02**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2733**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB08003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB08015A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB08027A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB08035/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB08047/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB08059/60A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB08071/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB08077/78A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB08016A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB08030A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB08043A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**SB08043A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB08056A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB08069A.B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**98B05015**		
Instrument:	**98**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B05027**		
Instrument:	**98**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**98B05039**		
Instrument:	**98**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B05044**		
Instrument:	**98**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082ASurrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	**Parameter**	**Surrogate**	**Recovery**	**Criteria**
CA507-SB38-009	VOCs	Toluene-d_8	**77.4**	85-115

Analytical data that required qualification based on surrogate data are included in the table below.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Field ID	Parameter	Analyte	Qualification
CA507-SB38-009	VOCs	Benzene	**UJ**
CA507-SB38-009	VOCs	Ethylbenzene	**UJ**
CA507-SB38-009	VOCs	*m,p*-Xylene	**UJ**
CA507-SB38-009	VOCs	Naphthalene	**UJ**
CA507-SB38-009	VOCs	*o*-Xylene	**UJ**
CA507-SB38-009	VOCs	Toluene	**UJ**

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SS38-001 was spiked and analyzed for lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

A matrix duplicate was performed on sample CA507-SS38-001.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Dilution Test Criteria	Yes	No	N/A
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA507-SS38-001.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on sample CA507-SS38-001.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.		X	
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA507-SB39-005	CA507-SB539-005
CA507-SB38-004	CA507-SB538-004
CA507-SS04-001	CA507-SS504-001

Analytical data that required qualification based on parent sample / field duplicate RPDs and/or differences are included in the table below.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B019 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Parent Sample ID	Field Duplicate Sample ID	Parameter	Analyte	RPD or difference	Qualification
CA507-SS04-001	CA507-SS504-001	PAHs	Benzo(a)anthracene	**57**	**J**
CA507-SS04-001	CA507-SS504-001	PAHs	Benzo(b)fluoranthene	**51**	**J**
CA507-SS04-001	CA507-SS504-001	PAHs	Benzo(k)fluoranthene	**145**	**J**
CA507-SS04-001	CA507-SS504-001	PAHs	Chrysene	**58**	**J**

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

PAH samples CA507-SS39-001, CA507-SS04-001, CA507-SS504-001 were analyzed at 2X dilutions due to dark colored extracts.

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8081B, 8082A, 8330A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB02-010	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB02-015	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS01-001	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB01-004	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB01-010	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB01-015	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS03-001	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB03-005	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB03-010	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB03-015	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS02-001	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB02-004	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB502-010	2/4/2013	2/5/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated a VOC surrogate recovery was outside evaluation criteria in sample CA507-SS02-001. Two PAH samples were initially analyzed at a dilution due to dark colored extracts. These issues are discussed further in the appropriate sections below.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB151**		
Instrument:	**03**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**RBB151**		
Instrument:	**03**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB196**		
Instrument:	**03**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RAL017**		
Instrument:	**E9**		
Date of Tuning:	**1/10/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBL051**		
Instrument:	**E9**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B08001**		
Instrument:	**F6**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E9**		
Date of Calibration:	**1/10/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?		/	X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/12/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE9A101**		
Instrument:	**E9**		
Date of Initial Calibration Verification:	**1/10/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM ICV Criteria (Filename)	**ISVE9A101**		
Instrument:	**E9**		
Date of Initial Calibration Verification:	**1/10/2013**		
	Yes	**No**	**N/A**
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SJ02043A**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B08009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2512**		
Instrument:	**03**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CSO03A2514**		
Instrument:	**03**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE9A1008**		
Instrument:	**E9**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB08015A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB08027A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB08050A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11027/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11051/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**SB11003A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB11015A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB11027A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B08052**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B08064**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**F6B08076**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B08088**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082ASurrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	**Parameter**	**Surrogate**	**Recovery**	**Criteria**
CA507-SS02-001	VOCs	4-Bromofluorobenzene	**131**	85-120

Analytical data that required qualification based on surrogate data are included in the table below.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Field ID	Parameter	Analyte	Qualification
CA507-SS02-001	VOCs	*m,p*-Xylene	**J**

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB01-004 was spiked and analyzed for lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

A matrix duplicate was performed on sample CA507-SB01-004.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA507-SB01-004.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on sample CA507-SB01-004.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

PAH samples CA507-SS03-001 and CA507-SS02-001were analyzed at 3X dilutions due to dark colored extracts.

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B020 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8081B, 8082A, 8330A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB06-010	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB06-015	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS07-001	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB07-005	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB507-005	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB07-005	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB07-008	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB07-015	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS05-001	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB05-005	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB505-005	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB05-010	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB05-015	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS06-001	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB06-005	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA504-SB01-060	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA504-SB01-065	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA504-SB01-070	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA504-SB01-075	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated VOC surrogate and internal standards recoveries were outside evaluation criteria. Three PAH samples were initially analyzed at a dilution due to dark colored extracts. These issues are discussed further in the appropriate sections below.

The cooler receipt form indicated lead only was requested on the COC while the bottle labels indicated 6020A full list. Per URS chemist, the samples were analyzed for lead only.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

See Section 1.0.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB151**		
Instrument:	**03**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB173**		
Instrument:	**03**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB242**		
Instrument:	**03**		
Date of Tuning:	**2/11/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RKH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RPH198**		
Instrument:	**E7**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RPH229**		
Instrument:	**E7**		
Date of Tuning:	**2/13/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B08001**		
Instrument:	**F6**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)			
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/12/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B080009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2512**		
Instrument:	**03**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CSO03A2513**		
Instrument:	**03**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2516**		
Instrument:	**03**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2735**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2736**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11014A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11025A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11051/2A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11063/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11075/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11087/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11111/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11123/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13002A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13015A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13028A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13040A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**F6B08088**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B08100**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B08112**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B08118**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082ASurrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA507-SS07-001	VOCs	4-Bromofluorobenzene	**126**	85-120
CA507-SS05-001	VOCs	4-Bromofluorobenzene	**126**	85-120
CA507-SS06-001	VOCs	4-Bromofluorobenzene	**131**	85-120
CA504-SB01-060	VOCs	Toluene-d_8	**125**	85-115
CA504-SB01-070	VOCs	Toluene-d_8	**123**	85-115
CA504-SB01-075	VOCs	Toluene-d_8	**124**	85-115

All data were nondetect and associated with surrogates above evaluation criteria, indicating a high bias. Therefore, no qualification of data was required. Multiple samples had surrogates that were diluted out. No qualification of data was required.

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
CA504-SB01-060	VOCs	1,2-Dichlorobenzene-d_4	**330227**	436457-1745828
CA504-SB01-075	VOCs	1,2-Dichlorobenzene-d_4	**374868**	436457-1745828

The internal standard recoveries in the table above are below evaluation criteria which would cause a high bias in the calculation of sample results. Analytical data which were reported as nondetect and associated with internal standard recoveries below evaluation criteria,

indicating a possible high bias, did not require qualification. Samples CA504-SB01-060 and CA504-SB01-075 were nondetect for all associated analytes.

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB06-015 was spiked and analyzed for DRO/ORO and lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

A matrix duplicate was performed on sample CA507-SS06-001.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA507-SS06-001.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on sample CA507-SS06-001.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.		X	
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ		X	

Parent Sample ID	Field Duplicate Sample ID
CA507-SB07-005	CA507-SB507-005
CA507-SB05-005	CA507-SB505-005

Analytical data that required qualification based on parent sample / field duplicate RPDs and/or differences are included in the table below.

Parent Sample ID	Field Duplicate Sample ID	Parameter	Analyte	RPD or difference	Qualification
CA507-SB07-005	CA507-SB507-005	PAHs	Benzo(a)anthracene	**>2X**	**J/J**
CA507-SB07-005	CA507-SB507-005	PAHs	Benzo(a)pyrene	**>2X**	**J/J**
CA507-SB07-005	CA507-SB507-005	PAHs	Benzo(b)fluoranthene	**65**	**J/J**
CA507-SB07-005	CA507-SB507-005	PAHs	Chrysene	**>2X**	**J/J**

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

PAH samples CA507-SS07-001, CA507-SS05-001, CA507-SS06-001, and CA507-SB06-005 were analyzed at 3X dilutions due to dark colored extracts.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B027 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8081B, 8082A, and 8330A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB540-010	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB40-010	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB40-015	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB44-010	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB44-015	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB45-010	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB45-015	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA504-SB01-030	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB01-035	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB01-040	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB01-045	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB501-045	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB01-050	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB01-055	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB01-005	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB01-010	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB01-015	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB01-020	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB01-023	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB01-025	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)
CA504-SB501-025	2/5/2013	2/6/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated VOC surrogate and internal standards recoveries were outside evaluation criteria. Three PAH samples were initially analyzed at a dilution due to dark colored extracts. These issues are discussed further in the appropriate sections below.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RBN031**		
Instrument:	**F4**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**RBN031**		
Instrument:	**F4**		
Date of Tuning:	**2/5/2013**		
	Yes	**No**	**N/A**
Table 4 of SW-846 Method 8260B?			

Method 8260B Instrument Tuning Criteria (Filename)	**RBN119**		
Instrument:	**F4**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBN127**		
Instrument:	**F4**		
Date of Tuning:	**2/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBN165**		
Instrument:	**F4**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RAL017**		
Instrument:	**E9**		
Date of Tuning:	**1/10/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBL071**		
Instrument:	**E9**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBL101**		
Instrument:	**E9**		
Date of Tuning:	**2/13/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B08001**		
Instrument:	**F6**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/5/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E9**		
Date of Calibration:	**1/10/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?		/	X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/12/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4B051**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/5/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8260B ICV Criteria (Filename)	**IVOF4B081**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B ICV Criteria (Filename)	**IVOF4B081**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE9A101**		
Instrument:	**E9**		
Date of Initial Calibration Verification:	**1/10/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B080009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A ICV Criteria (Filename)	**F6B080009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4B0503**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/7/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4B0802**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE9A1009**		
Instrument:	**E9**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM CCV Criteria (Filename)	**CSVE9A1010**		
Instrument:	**E9**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB08015A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/08/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB08027A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/09/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB08039A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/09/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB08050A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/09/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB08050A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/09/2013**		
	Yes	**No**	**N/A**
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB115051A/B**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11063A/B**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11075A/B**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11087A/B**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11099A/B**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11111A/B**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11123A/B**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB11135A/B**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13015/B**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB08065/6A**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13057A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13070A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13083A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B08076**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**F6B08088**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082ASurrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	**Parameter**	**Surrogate**	**Recovery**	**Criteria**
CA504-SB01-030	VOCs	4-Bromofluorobenzene	**221**	85-120
CA504-SB01-035	VOCs	4-Bromofluorobenzene	**269**	85-120
CA504-SB01-035	VOCs	Toluene-d_8	**77.3**	85-115
CA504-SB01-040	VOCs	4-Bromofluorobenzene	**343**	85-120
CA504-SB01-050	VOCs	4-Bromofluorobenzene	**343**	85-120
CA504-SB01-045	VOCs	4-Bromofluorobenzene	**370**	85-120
CA504-SB501-045	VOCs	4-Bromofluorobenzene	**438**	85-120
CA504-SB01-050	VOCs	4-Bromofluorobenzene	**207**	85-120
CA504-SB01-055	VOCs	4-Bromofluorobenzene	**383**	85-120
CA504-SB01-023	VOCs	4-Bromofluorobenzene	**163**	85-120
CA504-SB01-025	VOCs	4-Bromofluorobenzene	**178**	85-120
CA504-SB501-025	VOCs	4-Bromofluorobenzene	**141**	85-120
CA504-SB501-025	VOCs	Toluene-d_8	**82.4**	85-115

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB01-030	PAHs	Terphenyl-d_{14}	**148**	30-125
CA504-SB01-035	PAHs	Terphenyl-d_{14}	**151**	30-125
CA504-SB01-040	PAHs	Terphenyl-d_{14}	**159**	30-125
CA504-SB01-045	PAHs	Terphenyl-d_{14}	**153**	30-125
CA504-SB501-045	PAHs	Terphenyl-d_{14}	**156**	30-125
CA504-SB01-050	PAHs	Terphenyl-d_{14}	**158**	30-125
CA504-SB01-055	PAHs	Terphenyl-d_{14}	**145**	30-125
CA504-SB01-023	PAHs	Terphenyl-d_{14}	**136**	30-125
CA504-SB01-025	PAHs	Terphenyl-d_{14}	**147**	30-125
CA504-SB501-025	PAHs	Terphenyl-d_{14}	**141**	30-125

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
CA504-SB01-030	VOCs	Naphthalene	**J**
CA504-SB01-035	VOCs	Naphthalene	**J**
CA504-SB01-035	VOCs	Benzene	**UJ**
CA504-SB01-035	VOCs	Ethylbenzene	**UJ**
CA504-SB01-035	VOCs	m,p-Xylene	**UJ**
CA504-SB01-035	VOCs	o-Xylene	**UJ**
CA504-SB01-035	VOCs	Toluene	**UJ**
CA504-SB01-040	VOCs	Naphthalene	**J**
CA504-SB01-045	VOCs	Naphthalene	**J**
CA504-SB501-045	VOCs	Naphthalene	**J**
CA504-SB01-050	VOCs	Naphthalene	**J**
CA504-SB501-025	VOCs	Naphthalene	**UJ**
CA504-SB501-025	VOCs	Benzene	**UJ**
CA504-SB501-025	VOCs	Ethylbenzene	**UJ**
CA504-SB501-025	VOCs	m,p-Xylene	**UJ**
CA504-SB501-025	VOCs	o-Xylene	**UJ**
CA504-SB501-025	VOCs	Toluene	**UJ**
CA504-SB01-030	PAHs	Benzo(a)anthracene	**J**
CA504-SB01-030	PAHs	Benzo(a)pyrene	**J**
CA504-SB01-030	PAHs	Benzo(b)fluoranthene	**J**
CA504-SB01-030	PAHs	Benzo(k)fluoranthene	**J**
CA504-SB01-030	PAHs	Chrysene	**J**
CA504-SB01-030	PAHs	Indeno(1,2,3-CD)pyrene	**J**
CA504-SB01-035	PAHs	Benzo(a)anthracene	**J**
CA504-SB01-035	PAHs	Benzo(a)pyrene	**J**
CA504-SB01-035	PAHs	Benzo(b)fluoranthene	**J**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Field ID	Parameter	Analyte	Qualification
CA504-SB01-035	PAHs	Dibenz(a,h)anthracene	**J**
CA504-SB01-035	PAHs	Chrysene	**J**
CA504-SB01-035	PAHs	Indeno(1,2,3-CD)pyrene	**J**
CA504-SB01-040	PAHs	Benzo(a)anthracene	**J**
CA504-SB01-040	PAHs	Benzo(a)pyrene	**J**
CA504-SB01-040	PAHs	Benzo(b)fluoranthene	**J**
CA504-SB01-040	PAHs	Benzo(k)fluoranthene	**J**
CA504-SB01-040	PAHs	Chrysene	**J**
CA504-SB01-040	PAHs	Indeno(1,2,3-CD)pyrene	**J**
CA504-SB01-040	PAHs	Dibenz(a,h)anthracene	**J**
CA504-SB01-045	PAHs	Benzo(a)anthracene	**J**
CA504-SB01-045	PAHs	Benzo(a)pyrene	**J**
CA504-SB01-045	PAHs	Benzo(b)fluoranthene	**J**
CA504-SB01-045	PAHs	Benzo(k)fluoranthene	**J**
CA504-SB01-045	PAHs	Chrysene	**J**
CA504-SB01-045	PAHs	Indeno(1,2,3-CD)pyrene	**J**
CA504-SB01-045	PAHs	Dibenz(a,h)anthracene	**J**
CA504-SB501-045	PAHs	Benzo(a)anthracene	**J**
CA504-SB501-045	PAHs	Benzo(a)pyrene	**J**
CA504-SB501-045	PAHs	Benzo(b)fluoranthene	**J**
CA504-SB501-045	PAHs	Benzo(k)fluoranthene	**J**
CA504-SB501-045	PAHs	Chrysene	**J**
CA504-SB501-045	PAHs	Indeno(1,2,3-CD)pyrene	**J**
CA504-SB501-045	PAHs	Dibenz(a,h)anthracene	**J**
CA504-SB01-050	PAHs	Benzo(a)anthracene	**J**
CA504-SB01-050	PAHs	Benzo(a)pyrene	**J**
CA504-SB01-050	PAHs	Benzo(b)fluoranthene	**J**
CA504-SB01-050	PAHs	Benzo(k)fluoranthene	**J**
CA504-SB01-050	PAHs	Chrysene	**J**
CA504-SB01-050	PAHs	Indeno(1,2,3-CD)pyrene	**J**
CA504-SB01-050	PAHs	Dibenz(a,h)anthracene	**J**
CA504-SB01-055	PAHs	Benzo(a)anthracene	**J**
CA504-SB01-055	PAHs	Benzo(a)pyrene	**J**
CA504-SB01-055	PAHs	Benzo(b)fluoranthene	**J**
CA504-SB01-055	PAHs	Benzo(k)fluoranthene	**J**
CA504-SB01-055	PAHs	Chrysene	**J**
CA504-SB01-055	PAHs	Indeno(1,2,3-CD)pyrene	**J**
CA504-SB01-023	PAHs	Benzo(a)anthracene	**J**
CA504-SB01-023	PAHs	Benzo(a)pyrene	**J**
CA504-SB01-023	PAHs	Benzo(b)fluoranthene	**J**
CA504-SB01-023	PAHs	Benzo(k)fluoranthene	**J**
CA504-SB01-023	PAHs	Chrysene	**J**
CA504-SB01-023	PAHs	Indeno(1,2,3-CD)pyrene	**J**
CA504-SB01-023	PAHs	Dibenz(a,h)anthracene	**J**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Field ID	Parameter	Analyte	Qualification
CA504-SB01-025	PAHs	Benzo(a)anthracene	**J**
CA504-SB01-025	PAHs	Benzo(a)pyrene	**J**
CA504-SB01-025	PAHs	Benzo(b)fluoranthene	**J**
CA504-SB01-025	PAHs	Benzo(k)fluoranthene	**J**
CA504-SB01-025	PAHs	Chrysene	**J**
CA504-SB01-025	PAHs	Indeno(1,2,3-CD)pyrene	**J**
CA504-SB01-025	PAHs	Dibenz(a,h)anthracene	**J**
CA504-SB501-025	PAHs	Benzo(a)pyrene	**J**
CA504-SB501-025	PAHs	Benzo(b)fluoranthene	**J**
CA504-SB501-025	PAHs	Benzo(k)fluoranthene	**J**
CA504-SB501-025	PAHs	Chrysene	**J**
CA504-SB501-025	PAHs	Indeno(1,2,3-CD)pyrene	**J**
CA504-SB501-025	PAHs	Dibenz(a,h)anthracene	**J**

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
CA504-SB01-060	VOCs	1,2-Dichlorobenzene-d_4	**330227**	436457-1745828
CA504-SB01-075	VOCs	1,2-Dichlorobenzene-d_4	**374868**	436457-1745828

The internal standard recoveries in the table above are below evaluation criteria which would cause a high bias in the calculation of sample results. Analytical data which were reported as nondetect and associated with internal standard recoveries below evaluation criteria, indicating a possible high bias, did not require qualification. Samples CA504-SB01-060 and CA504-SB01-075 were nondetect for all associated analytes.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA504-SB01-030 was spiked and analyzed for DRO/ORO and lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

A matrix duplicate was performed on sample CA504-SB01-030.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA504-SB01-030.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on sample CA504-SB01-030.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ		X	

Parent Sample ID	Field Duplicate Sample ID
CA507-SB40-010	CA507-SB540-010
CA504-SB01-045	CA504-SB501-045
CA504-SB01-025	CA504-SB501-025

Analytical data that required qualification based on parent sample / field duplicate RPDs and/or differences are included in the table below.

Parent Sample ID	Field Duplicate Sample ID	Parameter	Analyte	RPD or difference	Qualification
CA504-SB01-025	CA504-SB501-025	PAHs	Benzo(a)anthracene	**>2X**	**J/J**

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8081B, 8082A, and 8330A results between the primary and secondary column RPD < 40%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B028 **URS Chemist: Steve Gragert**
Date Verified: 3/4/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SS13-001	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB13-004	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB13-010	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB513-010	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB13-015	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB13-020	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS12-001	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB12-004	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB12-010	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB512-010	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB12-015	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB12-020	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB41-010	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB41-015	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

Although not mentioned in the laboratory case narrative, lead was detected in a method blank. This issue is discussed further in Section 8.0. No other issues were noted in the laboratory case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB265**		
Instrument:	**03**		
Date of Tuning:	**2/11/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**RBB265**		
Instrument:	**03**		
Date of Tuning:	**2/11/2013**		
	Yes	**No**	**N/A**
Table 4 of SW-846 Method 8260B?			

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RKH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBH229**		
Instrument:	**E7**		
Date of Tuning:	**2/13/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**98B06001**		
Instrument:	**98**		
Date of Tuning:	**2/13/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Option 2: If linear least squares regression was used was the $r \geq 0.995$?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the $r \geq 0.995$?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?		/	X

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/13/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was $r \geq 0.995$?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**71**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B06009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2517**		
Instrument:	**03**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2736**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11014A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11025A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB11036A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11047A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13003/4A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13015/6A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13027/8A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB13044A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13057A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13070A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13083A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**98B06029**		
Instrument:	**98**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**98B06041**		
Instrument:	**98**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B06052**		
Instrument:	**98**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B06064**		
Instrument:	**98**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Blank ID	**Parameter**	**Analyte**	**Concentration**	**LOQ**	**Units**
IMB021SB	Metals	Lead	0.0501	0.500	µg/L

All analytical data were reported at concentrations greater than five times (5X) the associated blank concentration; therefore, no qualification of data was required.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082ASurrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SS13-001 was spiked and analyzed for lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

A matrix duplicate was performed on samples CA507-SS13-001 and CA507-SS12-001.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on samples CA507-SS13-001 and CA507-SS12-001.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?		X	

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA507-SB13-010	CA507-SB513-010

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B034 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8081B, 8082A, and 8330A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB42-010	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), 8082A PCBs, Lead (6020A)
CA507-SB542-010	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), 8082A PCBs, Lead (6020A)
CA507-SB42-015	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), 8082A PCBs, Lead (6020A)
CA507-SS26-001	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), 8082A PCBs, Lead (6020A)
CA507-SB26-004	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), 8082A PCBs, Lead (6020A)
CA507-SB26-010	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), 8082A PCBs, Lead (6020A)
CA507-SB526-010	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), 8082A PCBs, Lead (6020A)
CA507-SB26-015	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), 8082A PCBs, Lead (6020A)
CA507-SB26-020	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), 8082A PCBs, Lead (6020A)
CA507-SS19-001	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), 8082A PCBs, Lead (6020A)
CA507-SB19-003	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), 8082A PCBs, Lead (6020A)
CA507-SB19-010	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-080	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB501-085	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-085	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-090	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB01-095	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-100	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-105	2/6/2013	2/7/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated VOC surrogate recoveries were outside evaluation criteria. PAH sample CA507-SS19-001 was initially analyzed at a dilution due to dark colored extract. These issues are discussed further in the appropriate sections below.

The cooler receipt form indicated the labels for sample CA504-SB501-085 requested full list SVOCs and VOCs. Per the URS chemist, the sample was logged in for BTEX+N and PAHs.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

See Section 1.0.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB218**		
Instrument:	**03**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB265**		
Instrument:	**03**		
Date of Tuning:	**2/11/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB332**		
Instrument:	**03**		
Date of Tuning:	**2/13/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RKH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBH253**		
Instrument:	**E7**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**98B06001**		
Instrument:	**98**		
Date of Tuning:	**2/13/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Are the RSDs for CCCs (Acenaphthene; 1,4-Dichlorobenzene; Hexachlorobutadiene; Diphenylamine; Di-n-octyl phthalate; Fluoranthene; Benzo(a)pyrene; 4-Chloro-3-methylphenol; 2,4-Dichlorophenol; 2-Nitrophenol; Phenol; Pentachlorophenol and 2,4,6-Trichlorophenol) for SVOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/13/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B06009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2515**		
Instrument:	**03**		
Date of Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2517**		
Instrument:	**03**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane,	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B CCV Criteria (Filename)	**CVO03A2517**		
Instrument:	**03**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)			
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2520**		
Instrument:	**03**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2737**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11025A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11036A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB11036A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11047A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11058A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13027/8A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13039/40A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13051/2A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13063/4A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13109/10A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13121/2A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13057A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB13070A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13083A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13096A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB13107A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**98B06052**		
Instrument:	**98**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**98B06064**		
Instrument:	**98**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B06076**		
Instrument:	**98**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B06084**		
Instrument:	**98**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082ASurrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB01-095	VOCs	Toluene-d_8	**127**	85-115
CA504-SB01-105	VOCs	Toluene-d_8	**133**	85-115
CA507-SS19-001	VOCs	4-Bromofluorobenzene	**130**	85-120
CA504-SB01-100	VOCs	4-Bromofluorobenzene	**79.2**	85-120
CA504-SB01-100	VOCs	Toluene-d_8	**150**	85-115

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
CA504-SB01-100	VOCs	Benzene	**UJ**
CA504-SB01-100	VOCs	Ethylbenzene	**UJ**
CA504-SB01-100	VOCs	m,p-Xylene	**UJ**
CA504-SB01-100	VOCs	Naphthalene	**UJ**
CA504-SB01-100	VOCs	o-Xylene	**UJ**
CA504-SB01-100	VOCs	Toluene	**UJ**

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
CA504-SB01-095	VOCs	1,2-Dichlorobenzene-d_4	**359569**	436457-1745828
CA504-SB01-100	VOCs	1,2-Dichlorobenzene-d_4	**249913**	436457-1745828
CA504-SB01-105	VOCs	1,2-Dichlorobenzene-d_4	**263790**	436457-1745828

The internal standard recoveries in the table above are below evaluation criteria which would cause a high bias in the calculation of sample results. Analytical data which were reported as nondetect and associated with internal standard recoveries below evaluation criteria, indicating a possible high bias, did not require qualification.

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB26-015 was spiked and analyzed for DRO/ORO, lead, and PCBs

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

A matrix duplicate was performed on sample CA507-SS26-001.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA507-SS26-001.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on sample CA507-SS26-001.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA507-SB42-010	CA507-SB542-010
CA507-SB26-010	CA507-SB526-010
CA504-SB01-085	CA504-SB501-085

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

PAH sample CA507-SS19-001 was initially analyzed at a 2X dilution due to dark colored extract.

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8081B, 8082A, and 8330A results between the primary and secondary column RPD < 40%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B035 **URS Chemist: Steve Gragert**
Date Verified: 3/6/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB58-004	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB58-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS59-001	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB59-004	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB59-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS35-001	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB35-004	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB535-004	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB35-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB35-015	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB35-020	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS57-001	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB57-004	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB557-004	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB57-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated some MS and surrogate recoveries were outside evaluation criteria. The laboratory duplicate RPD for lead was outside evaluation criteria. These issues are addressed in the appropriate sections below. The cooler receipt form indicated no problems or discrepancies were encountered.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB02A13**		
Instrument:	**02**		
Date of Tuning:	**1/23/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B07**		
Instrument:	**F4**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB02B08**		
Instrument:	**02**		
Date of Tuning:	**2/11/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B18**		
Instrument:	**F4**		
Date of Tuning:	**2/15/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2701**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2738**		
Instrument:	**E7**		
Date of Tuning:	**2/15/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Instrument Tuning Criteria (Filename)	**98B07001**		
Instrument:	**98**		
Date of Tuning:	**2/21/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**02**		
Date of Calibration:	**1/23/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for		/	X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
third order?			

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/21/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO02A231**		
Instrument:	**02**		
Date of Initial Calibration Verification:	**1/23/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8260B ICV Criteria (Filename)	**IVOF4B081**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**71**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B07009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO02A2305**		
Instrument:	**02**		
Date of Calibration Verification:	**2/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B CCV Criteria (Filename)	**CVOF4B0808**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2738**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15015A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15026A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB15026A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13073/74A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13085/86A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13097/98A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13109A/10A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB15002A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB15015A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB15028A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB15036A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19002A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB19015A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**98B07017**		
Instrument:	**98**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B07028**		
Instrument:	**98**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B07040**		
Instrument:	**98**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B07049**		
Instrument:	**98**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

8.0 Blank Samples

Blank Criteria	Yes	No	N/A
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA507-SS35-001	BTEX+N	4-Bromofluorobenzene	**126**	85-120

The BTEX+N results for sample CA507-SS35-001 were reported as nondetect and did not require qualification.

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample CA507-SB35-020 was spiked and analyzed for DRO and ORO. Sample CA507-SS59-001 was spiked and analyzed for lead. The native concentration of lead was greater than 10x the spiking concentration of lead in sample CA507-SS59-001; therefore, no qualification of data was required.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Sample CA507-SS59-001 was duplicated and analyzed for lead.

MD ID	Parameter	Analyte	RPD	MD Criteria
CA507-SS59-001	Metals	Lead	**29**	20

Analytical data that required qualification based on MD data are included in the table below.

Field ID	Parameter	Analyte	Qualification
CA507-SS59-001	Metals	Lead	**J**

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA507-SS59-001 for lead.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample CA507-SS59-001 was spiked and analyzed for lead.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA507-SB35-004	CA507-SB535-004
CA507-SB57-004	CA507-SB557-004

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B045 **URS Chemist: Jeff Aust**
Date Verified: 3/7/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SS60-001	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB60-004	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB60-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB55-005	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB55-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB53-005	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB53-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB43-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB43-015	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA504-SB01-110	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-115	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-120	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-125	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB02-005	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB02-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB02-015	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB02-020	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB02-025	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB502-025	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB02-030	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB02-035	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB02-040	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated VOC surrogate and internal standard recoveries were outside evaluation criteria. Two PAH samples were analyzed at a dilution due to dark colored extracts. These issues are addressed in the appropriate sections below. The cooler receipt form indicated no problems or discrepancies were encountered.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RAB133**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB286**		
Instrument:	**03**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB309**		
Instrument:	**03**		
Date of Tuning:	**2/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB332**		
Instrument:	**03**		
Date of Tuning:	**2/13/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**RBB373**		
Instrument:	**03**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBB523**		
Instrument:	**03**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RAJ011**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBJ144**		
Instrument:	**E4**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBJ183**		
Instrument:	**E4**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Instrument Tuning Criteria (Filename)	**98B07001**		
Instrument:	**98**		
Date of Tuning:	**2/21/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/21/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
(initial source)?			

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010/16A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B07009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A ICV Criteria (Filename)	**98B07009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2518**		
Instrument:	**03**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2519**		
Instrument:	**03**		
Date of Calibration Verification:	**2/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2520**		
Instrument:	**03**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B CCV Criteria (Filename)	**CVO03A2521**		
Instrument:	**03**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2527**		
Instrument:	**03**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0720**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0721**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11069A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB11069A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11081A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11092A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11102A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13073/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13085/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13097/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13109/10A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB13121/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB14003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB14015/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB14027/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB14051/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB14063/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19002A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB19015A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19028A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19041A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**98B07073**		
Instrument:	**98**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B07085**		
Instrument:	**98**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

8.0 Blank Samples

Blank Criteria	Yes	No	N/A
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D SIM/8015C Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB01-110	BTEX+N	4-Bromofluorobenzene	**131**	85-120
CA504-SB01-110	BTEX+N	Toluene-d_8	**118**	85-115
CA504-SB01-120	BTEX+N	4-Bromofluorobenzene	**128**	85-120
CA504-SB01-120	BTEX+N	Toluene-d_8	**118**	85-115
CA504-SB01-115	BTEX+N	4-Bromofluorobenzene	**130**	85-120
CA504-SB01-125	BTEX+N	4-Bromofluorobenzene	**135**	85-120
CA504-SB02-030	BTEX+N	4-Bromofluorobenzene	**123**	85-120

Analytical data that required qualification based on surrogate data are included in the table below. The BTEX+N results for sample CA504-SB02-030 were reported as nondetect and did not require qualification.

Field ID	Parameter	Analyte	Qualification
CA504-SB01-110	BTEX+N	Naphthalene	**J**
CA504-SB01-115	BTEX+N	Ethylbenzene	**J**
CA504-SB01-115	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-115	BTEX+N	Naphthalene	**J**
CA504-SB01-120	BTEX+N	*o*-Xylene	**J**
CA504-SB01-120	BTEX+N	Naphthalene	**J**
CA504-SB01-120	BTEX+N	Ethylbenzene	**J**
CA504-SB01-120	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-125	BTEX+N	Ethylbenzene	**J**
CA504-SB01-125	BTEX+N	*m,p*-Xylene	**J**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Field ID	Parameter	Analyte	Qualification
CA504-SB01-125	BTEX+N	Naphthalene	**J**
CA504-SB01-125	BTEX+N	*o*-Xylene	**J**
CA504-SB01-125	BTEX+N	Toluene	**J**

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D-SIM IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Field ID	Parameter	IS	IS Area Recovery	IS Criteria
CA504-SB01-110	BTEX+N	1,2-Dichlorobenzne-d_4	**383065**	436457-1745828
CA504-SB01-120	BTEX+N	1,2-Dichlorobenzne-d_4	**395792**	436457-1745828

Analytical data that required qualification based on IS data are included in the table below. The BTEX+N results were previously qualified based on surrogate recoveries and no additional qualification was required.

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA504-SB02-010 was spiked and analyzed for DRO and ORO.

13.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

The dilution test was performed on sample CA507-SB14-015.

14.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The PDS was performed on sample CA507-SB14-015.

15.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Was the ICS-AB recoveries within ± 20%?	X		

16.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA504-SB02-025	CA504-SB502-025

17.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

PAH samples CA507-SS60-001 and CA507-SB53-005 were analyzed at a dilution due to dark colored extracts.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B046 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

18.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?		X	
Were 8082A results between the primary and secondary column RPD ≤ 40%?	X		

19.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B057 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB02-045	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB02-050	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB02-055	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB02-060	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB02-065	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB02-070	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB02-075	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB02-080	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB502-080	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB02-085	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB11-005	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB11-010	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB11-015	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB11-020	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB11-025	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated some surrogate and internal standard recoveries were outside evaluation criteria. These issues are addressed in the appropriate sections below. The cooler receipt form indicated no problems or discrepancies were encountered.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B057 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B07**		
Instrument:	**F4**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B11**		
Instrument:	**F4**		
Date of Tuning:	**2/13/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B13**		
Instrument:	**F4**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B057 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0701**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0720**		
Instrument:	**E4**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0721**		
Instrument:	**E4**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B057 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4B081**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B057 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4B0803**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4B0805**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0720**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B057 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0721**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB14027A/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB14039A/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB14051A/52A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB14063A/64A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B057 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO CCV Criteria (Filename)	LB15054A/55A		
Instrument:	D5		
Date of Calibration Verification:	2/16/2013		
	Yes	No	N/A
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	LB15066A/67A		
Instrument:	D5		
Date of Calibration Verification:	2/16/2013		
	Yes	No	N/A
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

8.0 Blank Samples

Blank Criteria	Yes	No	N/A
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D SIM/8015C Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB02-045	BTEX+N	4-Bromofluorobenzene	**439**	85-120
CA504-SB02-050	BTEX+N	4-Bromofluorobenzene	**409**	85-120
CA504-SB02-055	BTEX+N	4-Bromofluorobenzene	**675**	85-120
CA504-SB02-055	BTEX+N	Toluene-d_8	**167**	85-115
CA504-SB02-060	BTEX+N	4-Bromofluorobenzene	**566**	85-120

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B057 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB02-060	BTEX+N	Toluene-d_8	**145**	85-115
CA504-SB02-065	BTEX+N	4-Bromofluorobenzene	**429**	85-120
CA504-SB02-065	BTEX+N	Toluene-d_8	**128**	85-115
CA504-SB02-070	BTEX+N	4-Bromofluorobenzene	**408**	85-120
CA504-SB02-075	BTEX+N	4-Bromofluorobenzene	**353**	85-120
CA504-SB02-075	BTEX+N	Toluene-d_8	**116**	85-115
CA504-SB502-080	BTEX+N	4-Bromofluorobenzene	**283**	85-120
CA504-SB02-080	BTEX+N	4-Bromofluorobenzene	**340**	85-120
CA504-SB02-085	BTEX+N	4-Bromofluorobenzene	**239**	85-120

Analytical data that required qualification based on surrogate data are included in the table below. The BTEX+N results for samples CA504-SB02-065, CA504-SB02-070, CA504-SB02-075, CA504-SB02-080, CA504-SB502-080 and CA504-SB02-085 were reported as nondetect and did not require qualification.

Field ID	Parameter	Analyte	Qualification
CA504-SB02-045	BTEX+N	Naphthalene	**J**
CA504-SB02-050	BTEX+N	Naphthalene	**J**
CA504-SB02-055	BTEX+N	Naphthalene	**J**
CA504-SB02-055	BTEX+N	*m,p*-Xylene	**J**
CA504-SB02-055	BTEX+N	*o*-Xylene	**J**
CA504-SB02-060	BTEX+N	Naphthalene	**J**

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D SIM IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?			X

Field ID	Parameter	IS	IS Area Recovery	IS Criteria
CA504-SB02-060	BTEX+N	1,2-Dichlorobenzne-d_4	**119060**	133804-535214
CA504-SB02-055	BTEX+N	1,2-Dichlorobenzne-d_4	**116260**	133804-535214

The BTEX+N results were previously qualified based on surrogate recoveries and no additional qualification was required.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B057 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Samples CA504-SB11-010 and CA504-SB11-025 were spiked and analyzed for BTEX+N, low level PAHs, DRO and ORO.

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA504-SB02-080	CA504-SB502-080

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?		X	
Were 8081B and 8330A results between the primary and secondary column RPD ≤ 40%?			X

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SS14-001	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB14-004	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB14-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB14-015	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB66-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB66-015	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB49-004	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB549-004	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB49-010	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB49-015	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB49-020	2/7/2013	2/8/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

No issues were noted in the laboratory case narrative or cooler receipt form.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**RBH119**		
Instrument:	**F4**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBN188**		
Instrument:	**F4**		
Date of Tuning:	**2/13/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**RBN244**		
Instrument:	**F4**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**RBN272**		
Instrument:	**F4**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RKH360**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBH300**		
Instrument:	**E7**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**98B07001**		
Instrument:	**98**		
Date of Tuning:	**2/21/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
for chloromethane, bromoform, and 1,1-dichloroethane.)			
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/21/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4B081**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010/16A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B07009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4B0803**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4B0808**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane,	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B CCV Criteria (Filename)	**CVOF4B0808**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)			
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2739**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11069A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB11092A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB15066/7A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB15078/9A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB15090/1A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB15102/3A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19002/3A**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19015A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB19028A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19041A/B**		
Instrument:	**D8**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**98B07049**		
Instrument:	**98**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B07061**		
Instrument:	**98**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B07073**		
Instrument:	**98**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

8.0 Blank Samples

Blank Criteria	Yes	No	N/A
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D SIM/8015C Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D SIM IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB14-015 was spiked and analyzed for BTEX+N, GRO, DRO, ORO, PCBs, and lead.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB14-015 was duplicated and analyzed for lead.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

The dilution test was performed on sample CA507-SB14-015.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The PDS was performed on sample CA507-SB14-015.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Was the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B058 **URS Chemist: Steve Gragert**
Date Verified: 3/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Field Duplicate Criteria	Yes	No	N/A
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA507-SB49-004	CA507-SB549-004

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?		X	
Were 8082A results between the primary and secondary column RPD ≤ 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB564-010	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB64-015	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB65-010	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB65-015	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB67-010	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB567-010	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB67-015	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS54-001	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB31-005	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB531-005	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB31-010	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB48-005	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB48-010	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB64-010	2/8/2013	2/9/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated some internal standard and surrogate recoveries were outside evaluation criteria. These issues are addressed in the appropriate sections below. The cooler receipt form indicated no problems or discrepancies were encountered.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B07**		
Instrument:	**F4**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B13**		
Instrument:	**F4**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B13**		
Instrument:	**F4**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
listed in Table 4 of SW-846 Method 8260B?			

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B15**		
Instrument:	**F4**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B16**		
Instrument:	**F4**		
Date of Tuning:	**2/15/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2701**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2739**		
Instrument:	**E7**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2740**		
Instrument:	**E7**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**98B08001**		
Instrument:	**98**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**08**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for		/	X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A Initial Calibration Criteria			
Instrument:	**08**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
third order?			

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/22/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4B081**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SJ02043A/B**		
Instrument:	**08**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B08009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4B0805**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4B0806**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B CCV Criteria (Filename)	**CVOF4B0806**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)			
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4B0807**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D SIM CCV Criteria (Filename)	**CSVE7K2739**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D SIM CCV Criteria (Filename)	**CSVE7K2740**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15015A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB15026A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15038A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15049A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB15090/91A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB15102/03A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB15114/15A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB15122A/23A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB19002A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB19015A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB19028A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**SB19038A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**98B08027**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B08039**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B08051**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B08061**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

8.0 Blank Samples

Blank Criteria	Yes	No	N/A
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA507-SS54-001	BTEX+N	4-Bromofluorobenzene	**128**	85-120

The BTEX+N results for sample CA507-SS54-001 were reported as nondetect and did not require qualification.

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Field ID	Parameter	IS	IS Area Recovery	IS Criteria
CA507-SS54-001	BTEX+N	1,2-Dichlorobenzne-d_4	**103410**	133804-535214

The low IS recovery was indicative of a high bias and all associated BTEX+N results were nondetect. No qualification of data was required.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Samples CA507-SB65-015 and CA507-SB48-010 were spiked and analyzed for BTEX+N, PAHs, GRO, DRO, ORO, PCBs and lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Samples CA507-SB65-015 and CA507-SB48-010 were duplicated and analyzed for lead.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on samples CA507-SB65-015 and CA507-SB48-010 for lead.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Samples CA507-SB65-015 and CA507-SB48-010 were spiked and analyzed for lead.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA507-SB64-010	CA507-SB564-010
CA507-SB67-010	CA507-SB567-010
CA507-SB31-005	CA507-SB531-005

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B059 **URS Chemist: Jeff Aust**
Date Verified: 3/8/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B066 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB10-040	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB10-045	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB10-050	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB10-052	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB09-005	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB09-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB09-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB10-005	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB10-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB10-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB10-020	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB10-025	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB10-030	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB10-035	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB09-020	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB09-025	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated some surrogate recoveries were outside evaluation criteria. This issue is addressed in the appropriate section below. The cooler receipt form

indicated no problems or discrepancies were encountered.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A08**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B18**		
Instrument:	**03**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B19**		
Instrument:	**03**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B066 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B19**		
Instrument:	**03**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
listed in Table 4 of SW-846 Method 8260B?			

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B20**		
Instrument:	**03**		
Date of Tuning:	**2/15/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE9A1001**		
Instrument:	**E9**		
Date of Tuning:	**1/10/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE9A1014**		
Instrument:	**E9**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B066 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E9**		
Date of Calibration:	**1/10/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B066 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8270D-SIM ICV Criteria (Filename)	**ISVE9A101**		
Instrument:	**E9**		
Date of Initial Calibration Verification:	**1/10/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2521**		
Instrument:	**03**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2522**		
Instrument:	**03**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B066 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B CCV Criteria (Filename)	**CVO03A2523**		
Instrument:	**03**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE9A1014**		
Instrument:	**E9**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19003A/04A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19016A/17A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19057A/58A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B066 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19057A/58A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19069A/70A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19076A/77A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19082A/83A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19089A/90A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B066 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20003A/04A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20015A/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D SIM/8015C Surrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	**Parameter**	**Surrogate**	**Recovery**	**Criteria**
CA504-SB10-020	BTEX+N	4-Bromofluorobenzene	**121**	85-120
CA504-SB10-020	PAHs	Terphenyl-d_{14}	**148**	30-125
CA504-SB10-025	PAHs	Terphenyl-d_{14}	**134**	30-125
CA504-SB10-030	PAHs	Terphenyl-d_{14}	**158**	30-125
CA504-SB10-035	PAHs	Terphenyl-d_{14}	**152**	30-125

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B066 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB10-040	PAHs	Terphenyl-d_{14}	**154**	30-125
CA504-SB10-045	PAHs	Terphenyl-d_{14}	**158**	30-125
CA504-SB10-050	PAHs	Terphenyl-d_{14}	**161**	30-125
CA504-SB10-052	PAHs	Terphenyl-d_{14}	**151**	30-125

Analytical data that required qualification based on surrogate data are included in the table below. The BTEX+N results for sample CA504-SB10-020 were reported as nondetect and did not require qualification.

Field ID	Parameter	Analyte	Qualification
CA504-SB10-020	PAHs	All detected PAHs	**J**
CA504-SB10-025	PAHs	All detected PAHs	**J**
CA504-SB10-030	PAHs	All detected PAHs	**J**
CA504-SB10-035	PAHs	All detected PAHs	**J**
CA504-SB10-040	PAHs	All detected PAHs	**J**
CA504-SB10-045	PAHs	All detected PAHs	**J**
CA504-SB10-050	PAHs	All detected PAHs	**J**
CA504-SB10-052	PAHs	All detected PAHs	**J**

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D SIM IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?			X

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Samples CA504-SB10-010 and CA504-SB09-010 were spiked and analyzed for BTEX+N, low level PAHs, DRO and ORO.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B066 **URS Chemist: Jeff Aust**
Date Verified: 3/5/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?		X	
Were 8081B and 8330A results between the primary and secondary column RPD ≤ 40%?			X

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B068 **URS Chemist: Jeff Aust**
Date Verified: 3/6/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB04-005	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB04-010	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB04-015	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB04-020	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB04-025	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB04-030	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB504-030	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB04-035	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB04-040	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB04-045	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB04-050	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB08-005	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB08-010	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB08-015	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB08-020	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)
CA504-SB08-025	2/10/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated some MS/MSD and surrogate recoveries were outside evaluation criteria. These issues are addressed in the appropriate sections below. The cooler

receipt form indicated no problems or discrepancies were encountered.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A08**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B19**		
Instrument:	**03**		
Date of Tuning:	**2/14/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B20**		
Instrument:	**03**		
Date of Tuning:	**2/15/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B068 **URS Chemist: Jeff Aust**
Date Verified: 3/6/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B20**		
Instrument:	**03**		
Date of Tuning:	**2/15/2013**		
	Yes	**No**	**N/A**
listed in Table 4 of SW-846 Method 8260B?			

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B23**		
Instrument:	**03**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE9A1001**		
Instrument:	**E9**		
Date of Tuning:	**1/10/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE9A1013**		
Instrument:	**E9**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE9A1014**		
Instrument:	**E9**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B068 **URS Chemist: Jeff Aust**
Date Verified: 3/6/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E9**		
Date of Calibration:	**1/10/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B068 **URS Chemist: Jeff Aust**
Date Verified: 3/6/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE9A101**		
Instrument:	**E9**		
Date of Initial Calibration Verification:	**1/10/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2522**		
Instrument:	**03**		
Date of Calibration Verification:	**2/14/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B068 **URS Chemist: Jeff Aust**
Date Verified: 3/6/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B CCV Criteria (Filename)	**CVO03A2523**		
Instrument:	**03**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2525**		
Instrument:	**03**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE9A1013**		
Instrument:	**E9**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE9A1014**		
Instrument:	**E9**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19082A/83A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B068 **URS Chemist: Jeff Aust**
Date Verified: 3/6/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19082A/83A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19089A/90A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19101A/02A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB19113A/14A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20063A/64A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B068 **URS Chemist: Jeff Aust**
Date Verified: 3/6/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20075A/76A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20078A/79A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D SIM/8015C Surrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	**Parameter**	**Surrogate**	**Recovery**	**Criteria**
CA504-SB04-035	BTEX+N	4-Bromofluorobenzene	**140**	85-120
CA504-SB04-040	BTEX+N	4-Bromofluorobenzene	**136**	85-120
CA504-SB04-050	BTEX+N	4-Bromofluorobenzene	**126**	85-120
CA504-SB04-030	PAHs	Terphenyl-d_{14}	**147**	30-125
CA504-SB504-030	PAHs	Terphenyl-d_{14}	**149**	30-125

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B068 **URS Chemist: Jeff Aust**
Date Verified: 3/6/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB04-035	PAHs	Terphenyl-d_{14}	**182**	30-125
CA504-SB04-040	PAHs	Terphenyl-d_{14}	**188**	30-125
CA504-SB04-045	PAHs	Terphenyl-d_{14}	**180**	30-125
CA504-SB04-050	PAHs	Terphenyl-d_{14}	**179**	30-125
CA504-SB08-010	PAHs	Terphenyl-d_{14}	**156**	30-125

Analytical data that required qualification based on surrogate data are included in the table below. The BTEX+N results for samples CA504-SB04-035, CA504-SB04-040 and CA504-SB04-050 and the PAH results for samples CA504-SB04-030 and CA504-SB504-030 were reported as nondetect and did not require qualification.

Field ID	Parameter	Analyte	Qualification
CA504-SB04-035	PAHs	All detected PAHs	**J**
CA504-SB04-040	PAHs	All detected PAHs	**J**
CA504-SB04-045	PAHs	All detected PAHs	**J**
CA504-SB04-050	PAHs	All detected PAHs	**J**
CA504-SB08-010	PAHs	All detected PAHs	**J**

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D SIM IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?			X

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Sample CA508-SB08-010 was spiked and analyzed for low level PAHs, DRO and ORO.

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
CA508-SB08-010	PAHs	Benzo(a)anthracene	**120/114**	5	50-110/30

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Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
CA508-SB08-010	PAHs	Chrysene	**127/122**	3	55-110/30

The PAH results for sample CA508-SB08-010 were previously qualified based on surrogate recovery and no additional qualification was required.

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA504-SB04-030	CA504-SB504-030

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?		X	
Were 8081B and 8330A results between the primary and secondary column RPD ≤ 40%?			X

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
Date Verified: 3/11/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SS52-001	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB52-004	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB52-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB52-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB18-004	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB18-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB18-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB17-005	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB17-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB17-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative and cooler receipt form indicated no problems or discrepancies were encountered.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
Date Verified: 3/11/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A08**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B17**		
Instrument:	**03**		
Date of Tuning:	**2/13/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2701**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
Date Verified: 3/11/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2741**		
Instrument:	**E7**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**98B08001**		
Instrument:	**98**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
Date Verified: 3/11/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
third order?			

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**08**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?		/	X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
Date Verified: 3/11/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/22/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A** **LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
Date Verified: 3/11/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A ICV Criteria (Filename)	**SJ02043A/B**		
Instrument:	**08**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B08009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2521**		
Instrument:	**03**		
Date of Calibration Verification:	**2/13/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2741**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15049A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
Date Verified: 3/11/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB15049A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/17/2013**		
	Yes	**No**	**N/A**
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15060A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15070A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20003/04A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20015/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
Date Verified: 3/11/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20027/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB19042A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB19055A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB19069A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**98B08061**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		
Method 6020A CCV Criteria (Filename)	**98B08073**		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
Date Verified: 3/11/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B08085**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	**Yes**	**No**	**N/A**
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
Date Verified: 3/11/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
of the ICAL?			
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB18-015 was spiked and analyzed for BTEX+N, PAHs, GRO, DRO, ORO, PCBs and lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB18-015 was duplicated and analyzed for lead.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA507-SB18-015 for lead.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
Date Verified: 3/11/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A PDS Criteria	Yes	No	N/A
Were the PDS recoveries within 75-125%?	X		

Sample CA507-SB18-015 was spiked and analyzed for lead.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B069 **URS Chemist: Jeff Aust**
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Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB15-005	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB15-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB15-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB15-020	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB16-005	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB16-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB16-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB29-005	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB29-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB29-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB68-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB68-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB46-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB46-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB47-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB47-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS21-001	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB21-004	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB21-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB21-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB21-020	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB69-010	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB69-015	2/11/2013	2/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated PAH sample CA507-SS21-001 was initially analyzed at a dilution due to a dark colored extract.

The cooler receipt form indicated multiple BTEX+N VOA vials supplied by the laboratory had 10mm of MeOH rather than 5mL. The soil samples were collected using 5 g plugs; therefore, each sample had LOQs elevated by 2X. All LOQs still met required project action limits; therefore, the data is sufficient. No qualification of data was required.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

No issues were noted in the cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B07**		
Instrument:	**F4**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B18**		
Instrument:	**F4**		
Date of Tuning:	**2/15/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B19**		
Instrument:	**F4**		
Date of Tuning:	**2/18/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B19**		
Instrument:	**F4**		
Date of Tuning:	**2/18/2013**		
	Yes	**No**	**N/A**
listed in Table 4 of SW-846 Method 8260B?			

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B20**		
Instrument:	**F4**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B22**		
Instrument:	**F4**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBJ185**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**RBJ197**		
Instrument:	**E4**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Instrument Tuning Criteria (Filename)	**98B08001**		
Instrument:	**98**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the $r \geq 0.995$?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the $r \geq 0.995$?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/22/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was $r \geq 0.995$?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4B081**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**71**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A ICV Criteria (Filename)	**98B08009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4B0808**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4B0810**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4B0812**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0722**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15049A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15060A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB15070A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB19003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB19003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB19014A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB19025A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB19031A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20015/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20027/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20051/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20063/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20075/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19041A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19045A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19058A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19071A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB19084A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB19097A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**98B08073**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B08085**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B08094**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**98B08106**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B08118**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B08129**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B08137**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?		X	

The %D for CCV 98B08137 (112%) was above evaluation criteria (90-110%). Qualifications of data due to %D recovery are located in the table below.

Field ID	**Parameter**	**Analyte**	**Qualification**
CA507-SB16-015	Metals	Lead	**J**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

8.0 Blank Samples

Blank Criteria	Yes	No	N/A
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Blank ID	Parameter	Analyte	Concentration	LOQ	Units
98B08096	Metals	Lead	0.0522	0.500	mg/kg

All data were reported at concentrations greater than five times (5X) the associated blank concentration; therefore, no qualification of data was required.

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB15-015 was spiked and analyzed for BTEX+N, PAHs, GRO, DRO, ORO, PCBs, and lead. Sample CA507-SB16-015 was spiked and analyzed for BTEX+N, PAHs, GRO, DRO, ORO, PCBs, and lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Samples CA507-SB15-015 and CA507-SB16-015 were duplicated and analyzed for lead.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on samples CA507-SB15-015 and CA507-SB16-015.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Samples CA507-SB15-015 and CA507-SB16-015 were spiked and analyzed for lead.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B070 **URS Chemist: Steve Gragert**
Date Verified: 3/8/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

PAH sample CA507-SS21-001 was initially analyzed at a 3X dilution due to a dark colored extract.

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB07-005	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB07-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB07-015	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB07-020	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB07-025	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB03-005	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB03-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB03-015	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB03-020	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB03-025	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB03-030	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB503-025	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB03-035	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB03-040	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB503-040	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB03-045	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB03-050	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA504-SB03-052	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C
CA507-SS50-001	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB50-005	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB50-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB50-015	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated VOC surrogate and internal standard recoveries were outside evaluation criteria. PAH sample CA507-SS50-001 was initially analyzed at a dilution due to a dark colored extract.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A58**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A58**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
listed in Table 4 of SW-846 Method 8260B?			

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B20**		
Instrument:	**03**		
Date of Tuning:	**2/15/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B21**		
Instrument:	**03**		
Date of Tuning:	**2/16/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B23**		
Instrument:	**03**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B28**		
Instrument:	**F4**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2701**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2742**		
Instrument:	**E7**		
Date of Tuning:	**2/21/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**98B08001**		
Instrument:	**98**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
third order?			

Method 6020A Initial Calibration Criteria			
Instrument:	**98**		
Date of Calibration:	**2/22/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**OVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**71**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**98B08009**		
Instrument:	**98**		
Date of Initial Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2523**		
Instrument:	**03**		
Date of Calibration Verification:	**2/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2524**		
Instrument:	**03**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B CCV Criteria (Filename)	**CVO03A2524**		
Instrument:	**03**		
Date of Calibration Verification:	**2/16/2013**		
	Yes	**No**	**N/A**
response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)			
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2525**		
Instrument:	**03**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2742**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB21003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB20015/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB21016/7A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB21027/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB21039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB21061/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB21068/9A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB21002A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB21016A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB21030A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB21039A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**98B08085**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**98B08094**		
Instrument:	**98**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB03-020	VOCs	4-Bromofluorobenzene	**132**	85-120
CA504-SB03-050	VOCs	Toluene-d_8	**116**	85-115

Analytical data that required qualification based on surrogate data are included in the table below. All results for sample CA504-SB03-020 were nondetect and associated with a surrogate above evaluation criteria, indicating a high bias. No qualification of data was required for sample CA504-SB03-020.

Field ID	Parameter	Analyte	Qualification
CA504-SB03-050	VOCs	Naphthalene	**J**

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?		X	
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

Field ID	Parameter	Analyte	IS Area Recovery	IS Criteria
CA504-SB03-045	VOCs	1,2-Dichlorobenzene	**410567**	436457-1745828
CA504-SB03-050	VOCs	1,2-Dichlorobenzene	**348952**	436457-1745828
CA504-SB03-052	VOCs	1,2-Dichlorobenzene	**345802**	436457-1745828

The internal standard recoveries in the table above are below evaluation criteria which would cause a high bias in the calculation of sample results. Analytical data which were reported as nondetect and associated with internal standard recoveries below evaluation criteria, indicating a possible high bias, did not require qualification. The naphthalene detection for sample CA504-SB03-050 was previously qualified as estimated due to high surrogate recovery in Section 11.0.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA504-SB03-052 was spiked and analyzed for PAHs.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?		X	
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?			X

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA507-SB18-015.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Sample CA507-SB18-015 was spiked and analyzed for lead.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B077 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A ICS Criteria	Yes	No	N/A
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA504-SB03-025	CA504-SB503-025
CA504-SB03-040	CA504-SB503-040

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB11-015	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS09-001	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB09-004	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB09-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB09-015	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS08-001	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB08-005	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB508-005	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB08-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB08-013	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB70-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB70-015	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB71-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB71-013	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated surrogate recoveries above evaluation criteria. This issue is addressed in the appropriate section below.

The cooler receipt form indicated sample CA507-SS08-001 was mislabeled on the COC and sample label as CA507-SB08-001. The sample ID was amended and no qualification of data was required.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?		X
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

Sample CA507-SS08-001 was mislabeled on the COC and sample label as CA507-SB08-001. The sample ID was amended and no qualification of data was required.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A08**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B23**		
Instrument:	**03**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B24**		
Instrument:	**03**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B25**		
Instrument:	**03**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2701**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2742**		
Instrument:	**E7**		
Date of Tuning:	**2/21/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2743**		
Instrument:	**E7**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B13001**		
Instrument:	**F6**		
Date of Tuning:	**2/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?		/	X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/25/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A** **LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**71**		
Date of Initial Calibration Verification:	**2/6/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B13009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2525**		
Instrument:	**03**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2526**		
Instrument:	**03**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B CCV Criteria (Filename)	**CVO03A2527**		
Instrument:	**03**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2742**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2743**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB21003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB21015A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB21026A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB21037A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB21027/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB21039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB21051/52A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB21061/62A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB21002A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB21016A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB21030A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB21039A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B13046**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B13058**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B13070**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B13082**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

8.0 Blank Samples

Blank Criteria	Yes	No	N/A
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA507-SS08-001	PCBs	Decachlorobiphenyl	**128**	60-125

The PCB results for sample CA507-SS08-001 were reported as nondetect and did not require qualification.

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample CA507-SB11-015 was spiked and analyzed for BTEX+N, PAHs, GRO, DRO, ORO, PCBs and lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB11-015 was duplicated and analyzed for lead.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA507-SB11-015 for lead.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Samples CA507-SB11-015 was spiked and analyzed for lead.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.		X	
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ		X	

Parent Sample ID	Field Duplicate Sample ID
CA507-SB08-005	CA507-SB508-005

Analytical data that required qualification based on parent sample / field duplicate RPDs and/or differences are included in the table below.

Parent Sample ID	Field Duplicate Sample ID	Parameter	Analyte	RPD or difference	Qualification
CA507-SB08-005	CA507-SB508-005	PAHs	Benz(a)anthracene	**60**	**J**
CA507-SB08-005	CA507-SB508-005	PAHs	Benzo(a)pyrene	**61**	**J**
CA507-SB08-005	CA507-SB508-005	PAHs	Benzo(b)fluoranthene	**54**	**J**
CA507-SB08-005	CA507-SB508-005	PAHs	Benzo(k)fluoranthene	**>2x**	**J**
CA507-SB08-005	CA507-SB508-005	PAHs	Chrysene	**67**	**J**
CA507-SB08-005	CA507-SB508-005	PAHs	Indeno(1,2,3-cd)pyrene	**63**	**J**

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B078 **URS Chemist: Jeff Aust**
Date Verified: 3/12/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB27-005	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB27-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB27-015	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB28-005	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB28-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB28-015	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB30-005	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB30-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB30-015	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB10-005	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB10-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB10-015	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB11-005	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB11-010	2/12/2013	2/13/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B07**		
Instrument:	**F4**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B19**		
Instrument:	**F4**		
Date of Tuning:	**2/18/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B20**		
Instrument:	**F4**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B22**		
Instrument:	**F4**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE9A1001**		
Instrument:	**E9**		
Date of Tuning:	**1/10/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE9A1015**		
Instrument:	**E9**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B14001**		
Instrument:	**F6**		
Date of Tuning:	**2/26/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E9**		
Date of Calibration:	**1/10/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/26/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4B081**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM ICV Criteria (Filename)	**ISVE9A101**		
Instrument:	**E9**		
Date of Initial Calibration Verification:	**1/10/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**71**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B14009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF40809**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/18/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4B0810**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4B0812**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE9A1015**		
Instrument:	**E9**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB21026A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB21048A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24014A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22015/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22027/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB22003A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB22016A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB22029A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB22036A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB22049A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?		X	

CCV KB22049B had a recovery for PCB 1260 (23%) outside evaluation criteria (≤20%) on the secondary column. All PCB 1260 data was reported from the column associated with CCV KB22049A; therefore, no qualification of data was required.

Method 6020A CCV Criteria (Filename)	**F6B14024**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**F6B14036**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B14048**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B14060**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Samples CA507-SB28-015 and CA507-SB30-015 were spiked and analyzed for BTEX+N, PAHs, GRO/DRO/ORO, PCBs, and lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Samples CA507-SB28-015 and CA507-SB30-015 were duplicated and analyzed for lead.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Dilution Test Criteria	Yes	No	N/A
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on samples CA507-SB28-015 and CA507-SB30-015.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Samples CA507-SB28-015 and CA507-SB30-015 were spiked and analyzed for lead.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B083 **URS Chemist: Steve Gragert**
Date Verified: 3/11/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB73-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB73-015	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS34-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB34-004	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB34-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB534-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB34-015	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS32-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB32-004	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB32-009	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB32-015	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB32-020	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS33-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB33-004	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated PAH samples CA507-SS34-001, CA507-SS32-001, CA507-SS33-001, and CA507-SB33-004 were initially analyzed at dilutions due to dark colored extracts. This issue is discussed further in the appropriate section below.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B07**		
Instrument:	**F4**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B22**		
Instrument:	**F4**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B22**		
Instrument:	**F4**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B23**		
Instrument:	**F4**		
Date of Tuning:	**2/21/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0701**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0724**		
Instrument:	**E4**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B15001**		
Instrument:	**F6**		
Date of Tuning:	**2/28/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/28/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4B081**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**71**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B15009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4B0812**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4B0813**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0724**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24003A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB24014A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24025A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24037A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22027/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Were all project analytes within ± 20% of expected value from the ICAL?	X		
Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22051/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22063/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB22036A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB22049A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?		X	

CCV KB22049B had a recovery for PCB 1260 (23%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV KB22049A; therefore, no qualification of data was required.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB22053A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?		X	

CCV KB22053B had a recovery for PCB 1260 (22%) outside evaluation criteria (≤20%) on the secondary column. All data was reported from the column associated with CCV KB22053A; therefore, no qualification of data was required.

Method 8082A CCV Criteria (Filename)	**KB22066A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB22079A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B15016**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**F6B15028**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B15040**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B15052**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		

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Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

LCS Criteria	Yes	No	N/A
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB32-015 was spiked and analyzed for PAHs and PCBs. Sample CA507-SB33-001 was spiked and analyzed for lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB33-001 was duplicated and analyzed for lead.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA507-SB33-001.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Sample CA507-SB33-001 was spiked and analyzed for lead.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA507-SB34-010	CA507-SB534-010

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B089 **URS Chemist: Steve Gragert**
Date Verified: 3/12/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?		X	

PAH samples CA507-SS34-001, CA507-SS32-001, CA507-SS33-001, and CA507-SB33-004 were initially analyzed at 2X dilutions due to dark colored extracts.

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB06-005	2/13/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB06-010	2/13/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB06-015	2/13/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB506-015	2/13/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB06-020	2/13/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB06-025	2/13/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB05-005	2/13/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB05-010	2/13/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB05-015	2/13/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB05-020	2/13/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB05-025	2/13/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA507-SS23-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6010)
CA507-SB23-005	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6010)
CA507-SB23-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6010)
CA507-SB23-015	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6010)
CA507-SS25-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6010)
CA507-SB25-005	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6010)
CA507-SB25-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6010)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB25-015	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6010)
CA507-SB72-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6010)
CA507-SB72-015	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D- SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6010)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated a VOC surrogate recovery was outside evaluation criteria. The cooler receipt form indicated discrepancies between the sample ID and COC in two samples. These issues are discussed in the appropriate sections below.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?		X
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

There were discrepancies between the sample ID and COC in samples CA507-SB23-001 and CA507-SB25-001. Per URS chemist, the samples were logged in via the COC. No qualification of data was required.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A08**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B26**		
Instrument:	**03**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B27**		
Instrument:	**03**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2701**		
Instrument:	**E7**		
Date of Tuning:	**11/28/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2743**		
Instrument:	**E7**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2743**		
Instrument:	**E7**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2744**		
Instrument:	**E7**		
Date of Tuning:	**2/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B13001**		
Instrument:	**F6**		
Date of Tuning:	**2/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/28/2012**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for		/	X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/9/2013**		
	Yes	**No**	**N/A**
third order?			

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/25/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/28/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**71**		
Date of Initial Calibration Verification:	**2/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B14009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2528**		
Instrument:	**03**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2530**		
Instrument:	**03**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B CCV Criteria (Filename)	**CVO03A2530**		
Instrument:	**03**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)			
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2743**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2744**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24003S**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24014S**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB24014S**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/24/2013**		
	Yes	**No**	**N/A**
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24025S**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24037S**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24049S**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22051/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22063/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22075/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22087/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22099/100A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB22066A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**KB22079A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KB22090A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B13070**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B13082**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB06-005	VOCs	4-Bromofluorobenzene	130	85-120

All CA504-SB06-005 VOC data were reported as nondetect and associated with a surrogate recovery above evaluation criteria, indicating a possible high bias. Therefore, qualification of data was not required.

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA504-SB06-010 was spiked and analyzed for PAHs. Sample CA504-SB05-015 was spiked and analyzed for DRO/ORO.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?		X	
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?			X

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on lead samples CA507-SB11-015 and CA507-SB28-015.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Samples CA507-SB11-015 and CA507-SB28-015 were spiked and analyzed for lead.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B090 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Field Duplicate Criteria	Yes	No	N/A
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA504-SB06-015	CA504-SB506-015

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB33-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB33-015	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB33-020	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS24-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS524-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB24-005	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB24-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB24-015	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS51-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB51-005	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB51-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB51-015	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS20-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB20-004	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative and cooler receipt form indicated no problems or discrepancies were encountered.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A08**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B25**		
Instrument:	**03**		
Date of Tuning:	**2/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B27**		
Instrument:	**03**		
Date of Tuning:	**2/21/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B28**		
Instrument:	**03**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2701**		
Instrument:	**E7**		
Date of Tuning:	**11/27/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7K2744**		
Instrument:	**E7**		
Date of Tuning:	**2/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B14001**		
Instrument:	**F6**		
Date of Tuning:	**2/26/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**11/27/2012**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**08**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?		/	X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/26/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7K271**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**11/27/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A** **LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SWJ02043A/B**		
Instrument:	**08**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B14009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2527**		
Instrument:	**03**		
Date of Calibration Verification:	**2/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2530**		
Instrument:	**03**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2531**		
Instrument:	**03**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7K2744**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB24037A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24049A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24060A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22087/88A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22099/00A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22111/12A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB22114/15A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/24/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB25003A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB25016A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB25029A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**F6B14060**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B14072**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B14084**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B14089**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D-SIM/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB24-015 was spiked and analyzed for PAHs and PCBs. Sample CA507-SS51-001 was spiked and analyzed for lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SS51-001 was duplicated and analyzed for lead.

Cannon Air Force Base SI at Eight Sites Data Verification

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Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA507-SS51-001 for lead.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Samples CA507-SS51-001 was spiked and analyzed for lead.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA507-SS24-001	CA507-SS524-001

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B093 **URS Chemist: Jeff Aust**
Date Verified: 3/13/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB20-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB20-015	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS22-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS522-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB22-004	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB22-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB22-015	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS56-001	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS56-004	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS556-004	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SS56-010	2/12/2013	2/14/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

No issues were noted in the laboratory case narrative or cooler receipt form.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A08**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B24**		
Instrument:	**03**		
Date of Tuning:	**2/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0701**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D -SIM Instrument Tuning Criteria (Filename)	**DFTE4S0725**		
Instrument:	**E4**		
Date of Tuning:	**2/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B15001**		
Instrument:	**F6**		
Date of Tuning:	**2/28/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
third order?			

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**08**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/28/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D -SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT-39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A** **LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A ICV Criteria (Filename)	**SJ02043A/B**		
Instrument:	**08**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B15009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2526**		
Instrument:	**03**		
Date of Calibration Verification:	**2/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0725**		
Instrument:	**E7**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24060A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB24060A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
the end of the analysis sequence?			
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24070A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB25016/7A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB25028/9A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB25040/1A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB25052/3A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB25034A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB25034A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB25047A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB25057A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A CCV Criteria (Filename)	**F6B15040**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B15052**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B15064**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB56-004 was spiked and analyzed for lead.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA507-SB56-004 was duplicated and analyzed for lead.

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement,			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 6020A Dilution Test Criteria	Yes	No	N/A
was a post digestion spike sample analyzed?			

A dilution test was performed on lead sample CA507-SB56-004.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Sample CA507-SB56-004 was spiked and analyzed for lead.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.		X	
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ		X	

Parent Sample ID	Field Duplicate Sample ID
CA507-SS22-001	CA507-SS522-001
CA507-SB56-004	CA507-SB556-004

Analytical data that required qualification based on parent sample / field duplicate RPDs and/or differences are included in the table below.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B094 **URS Chemist: Steve Gragert**
Date Verified: 3/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Parent Sample ID	Field Duplicate Sample ID	Parameter	Analyte	RPD or difference	Qualification
CA507-SS22-001	CA507-SS522-001	PAHs	Benzo(b)fluoranthene	**>2X**	**UJ/J**
CA507-SS22-001	CA507-SS522-001	PAHs	Chrysene	**>2X**	**UJ/J**
CA507-SS22-001	CA507-SS522-001	Metals	Lead	**121**	**J/J**

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA507-SB74-010	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB574-010	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA507-SB74-015	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), PCBs (8082A), Lead (6020A)
CA504-SB14-045	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB14-047	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB15-015	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB15-020	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB15-024	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB12-015	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB12-020	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB13-015	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB13-020	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB513-020	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB13-025	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB13-030	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB13-035	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB13-040	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Verification Criteria	Yes	No	N/A
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated some samples were analyzed at dilution due to elevated levels of target compounds and therefore, some surrogates were not recoverable. A BTEX+N sample had an elevated surrogate recovery. These issues are addressed in the appropriate sections below. The cooler receipt form indicated no problems or discrepancies.

Although it was not indicated in the laboratory case narrative, the laboratory incorrectly logged in samples CA507-SB74-010, CA507-SB574-010, and CA507-SB74-015 as CA504-SB74-010, CA504-SB574-010, and CA504-SB74-015.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03A08**		
Instrument:	**03**		
Date of Tuning:	**1/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B28**		
Instrument:	**03**		
Date of Tuning:	**2/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03B29**		
Instrument:	**03**		
Date of Tuning:	**2/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0701**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0726**		
Instrument:	**E4**		
Date of Tuning:	**2/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6B15001**		
Instrument:	**F6**		
Date of Tuning:	**2/28/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**1/25/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8082A Initial Calibration Criteria			
Instrument:	**08**		
Date of Calibration:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?		/	X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**2/28/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03A251**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**1/25/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EA03011A**		
Instrument:	**GCT39**		
Date of Initial Calibration Verification:	**1/3/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8082A ICV Criteria (Filename)	**SWJ02043A/B**		
Instrument:	**08**		
Date of Initial Calibration Verification:	**10/3/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6B15009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03A2531**		
Instrument:	**03**		
Date of Calibration Verification:	**2/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03A2532**		
Instrument:	**03**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0726**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24060A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C GRO CCV Criteria (Filename)	**EB24070A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EB24080A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB25040/41A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB25052/53A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB25064/65A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB25072/73A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB26003/04A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB26015/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB25034A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**SB25047A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8082A CCV Criteria (Filename)	**SB25057A/B**		
Instrument:	**08**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6B15064**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6B15070**		
Instrument:	**F6**		
Date of Calibration Verification:	**2/28/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB574-010	BTEX+N	Toluene-d_8	**122**	85-115

The BTEX+N results for sample CA504-SB574-010 were reported as nondetect and did not require qualification.

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA504-SB15-020 was spiked and analyzed for BTEX+N, PAHs, DRO and ORO.

13.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?		X	
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

14.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on sample CA507-SB56-004 for lead.

15.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Sample CA507-SB56-004 was spiked and analyzed for lead.

16.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

17.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA507-SB74-010	CA507-SB574-010
CA504-SB13-020	CA504-SB513-020

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B096 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?		X	
Did all analytes meet sensitivity requirements?	X		

The ORO results for samples CA504-SB14-045 and CA504-SB14-047 were nondetect and reported from a dilution factor of 10.

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B097 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB14-015	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB14-020	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB14-025	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB14-030	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB14-035	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB14-040	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB12-025	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB12-030	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB12-035	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB12-040	2/14/2013	2/15/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated two BTEX+N samples had elevated surrogate recoveries. This issue is addressed in the appropriate section below. The cooler receipt form indicated no problems or discrepancies.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B097 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B07**		
Instrument:	**F4**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B23**		
Instrument:	**F4**		
Date of Tuning:	**2/21/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B24**		
Instrument:	**F4**		
Date of Tuning:	**2/21/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0701**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B097 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0727**		
Instrument:	**E4**		
Date of Tuning:	**2/27/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B097 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4B081**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVOF4B0813**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B097 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B CCV Criteria (Filename)	**CVOF4B0813**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4B0814**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0727**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/27/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB26003/04A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB26015/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B097 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB26027/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB27003/04A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/27/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB27015/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/27/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B097 **URS Chemist: Jeff Aust**
Date Verified: 3/14/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB14-035	BTEX+N	4-Bromofluorobenzene	**180**	85-120
CA504-SB14-040	BTEX+N	4-Bromofluorobenzene	**259**	85-120

The BTEX+N results for samples CA504-SB14-035 and CA504-SB14-040 were reported as nondetect and did not require qualification.

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?		X	
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?			X

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?		X	
Did all analytes meet sensitivity requirements?	X		

The ORO results for samples CA504-SB14-040 were nondetect and reported from a dilution factor of 5.

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B108 **URS Chemist: Jeff Aust**
Date Verified: 3/15/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB16-015	2/15/2013	2/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB16-020	2/15/2013	2/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB516-020	2/15/2013	2/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB16-025	2/15/2013	2/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB516-025	2/15/2013	2/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB16-030	2/15/2013	2/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB516-030	2/15/2013	2/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB16-035	2/15/2013	2/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB16-040	2/15/2013	2/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated all BTEX+N samples were received by the laboratory 24 hours outside the holding time of 48 hours. This issue is discussed further in Section 3.0. No other issues were noted in the laboratory case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B108 **URS Chemist: Jeff Aust**
Date Verified: 3/15/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?		X	
Were samples outside holding time extracted/analyzed < 2x holding time?	X		
Were samples outside holding time extracted/analyzed > 2x holding time?		X	

Due to an error by FedEx, the samples scheduled for Saturday delivery did not arrive at the lab until Monday, February 18. The samples were received 24 hours outside the holding time criteria of 48 hours. Per the UFP QAPP, samples received <2X the 48 hour holding time are qualified estimated/estimated nondetect and are listed in the table below.

Field ID	Parameter	Analyte	Qualification
CA504-SB16-015	BTEX+N	All detects/nondetects	**J/UJ**
CA504-SB16-020	BTEX+N	All detects/nondetects	**J/UJ**
CA504-SB516-020	BTEX+N	All detects/nondetects	**J/UJ**
CA504-SB16-025	BTEX+N	All detects/nondetects	**J/UJ**
CA504-SB516-025	BTEX+N	All detects/nondetects	**J/UJ**
CA504-SB16-030	BTEX+N	All detects/nondetects	**J/UJ**
CA504-SB516-030	BTEX+N	All detects/nondetects	**J/UJ**
CA504-SB16-035	BTEX+N	All detects/nondetects	**J/UJ**
CA504-SB16-040	BTEX+N	All detects/nondetects	**J/UJ**

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B07**		
Instrument:	**F4**		
Date of Tuning:	**2/8/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4B24**		
Instrument:	**F4**		
Date of Tuning:	**2/21/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B108 **URS Chemist: Jeff Aust**
Date Verified: 3/15/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0701**		
Instrument:	**E4**		
Date of Tuning:	**1/7/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4A0727**		
Instrument:	**E4**		
Date of Tuning:	**2/27/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B108 **URS Chemist: Jeff Aust**
Date Verified: 3/15/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**1/7/2013**		
	Yes	**No**	**N/A**
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X
Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVOF4B081**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4A071**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**1/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B108 **URS Chemist: Jeff Aust**
Date Verified: 3/15/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CV0FB0814**		
Instrument:	**F4**		
Date of Calibration Verification:	**2/21/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4A0727**		
Instrument:	**E4**		
Date of Calibration Verification:	**2/27/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB26003/04A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB26015/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB26027/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B108 **URS Chemist: Jeff Aust**
Date Verified: 3/15/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB26027/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
the end of the analysis sequence?			
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB26039/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LB26051/2A**		
Instrument:	**D5**		
Date of Calibration Verification:	**2/27/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C Surrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B108 **URS Chemist: Jeff Aust**
Date Verified: 3/15/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Methods 8260B/8270D/8015C Surrogate Criteria	Yes	No	N/A
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?			X

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Samples CA504-SB16-015 and CA504-SB16-035 were spiked and analyzed for BTEX+N, PAHs, and DRO/ORO.

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA504-SB16-020	CA504-SB516-020
CA504-SB16-025	CA504-SB516-025
CA504-SB16-030	CA504-SB516-030

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13B108 **URS Chemist: Jeff Aust**
Date Verified: 3/15/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D086 **URS Chemist: Steve Gragert**
Date Verified: 5/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA505-SB09-005	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB09-009	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB09-014	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB09-019	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB09-025	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB04-004	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB04-009	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB04-014	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB04-020	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB04-025	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB01-005	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB01-010	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB501-010	4/16/2013	4/17/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated a VOC MSD recovery was outside evaluation criteria. This issue is discussed further in Section 12.0. No other issues were noted in the laboratory case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D086 **URS Chemist: Steve Gragert**
Date Verified: 5/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Verification Criteria	Yes	No
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D04**		
Instrument:	**03**		
Date of Tuning:	**4/4/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D15**		
Instrument:	**03**		
Date of Tuning:	**4/17/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D17**		
Instrument:	**03**		
Date of Tuning:	**4/18/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D086 **URS Chemist: Steve Gragert**
Date Verified: 5/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D18**		
Instrument:	**03**		
Date of Tuning:	**4/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7C0601**		
Instrument:	**E7**		
Date of Tuning:	**3/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7C0609**		
Instrument:	**E7**		
Date of Tuning:	**4/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7C06010**		
Instrument:	**E7**		
Date of Tuning:	**4/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**4/4/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D086 **URS Chemist: Steve Gragert**
Date Verified: 5/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**4/4/2013**		
	Yes	**No**	**N/A**
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**3/6/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03D041**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**4/4/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D086 **URS Chemist: Steve Gragert**
Date Verified: 5/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7C0601**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**3/6/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03D0409**		
Instrument:	**03**		
Date of Calibration Verification:	**4/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03D0410**		
Instrument:	**03**		
Date of Calibration Verification:	**4/18/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D086 **URS Chemist: Steve Gragert**
Date Verified: 5/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8260B CCV Criteria (Filename)	**CVO03D0411**		
Instrument:	**03**		
Date of Calibration Verification:	**4/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7C0609**		
Instrument:	**E7**		
Date of Calibration Verification:	**4/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7C0610**		
Instrument:	**E7**		
Date of Calibration Verification:	**4/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD19015/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD19027/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D086 **URS Chemist: Steve Gragert**
Date Verified: 5/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD22003/4A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD22015/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD22027/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D086 **URS Chemist: Steve Gragert**
Date Verified: 5/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?			X

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Sample CA505-SB04-004 was spiked and analyzed for BTEX+N, PAHs, and DRO/ORO.

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
CA505-SB04-004	VOCs	*m,p*-Xylenes	81/**77**	5	80-125/30

Analytical data that required qualification based on MS/MSD data are included in the table below. The Cannon AFB UFP-QAPP indicates organic data should not be qualified on matrix spikes alone and all other QC data were within evaluation criteria. No qualification of data was required.

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D086 **URS Chemist: Steve Gragert**
Date Verified: 5/7/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C, 8082A, 6020A

Field Duplicate Criteria	Yes	No	N/A
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA505-SB01-010	CA505-SB501-010

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D098 **URS Chemist: Lyn Griswold**
Date Verified: 5/10/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA505-SB10-020	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB10-024	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB02-005	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB502-005	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB02-010	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB502-010	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB02-015	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB02-020	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB02-025	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB02-030	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB06-005	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB06-010	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB06-015	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB06-020	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB06-025	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

A PAH CCV %D was outside evaluation criteria. No other issues were reported in the laboratory case narrative or cooler receipt.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D098 **URS Chemist: Lyn Griswold**
Date Verified: 5/10/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D04**		
Instrument:	**03**		
Date of Tuning:	**4/4/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D19**		
Instrument:	**03**		
Date of Tuning:	**4/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7C0601**		
Instrument:	**E7**		
Date of Tuning:	**3/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D098 **URS Chemist: Lyn Griswold**
Date Verified: 5/10/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7C0610**		
Instrument:	**E7**		
Date of Tuning:	**4/19/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**4/4/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30% and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**3/6/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D098 **URS Chemist: Lyn Griswold**
Date Verified: 5/10/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03D041**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**4/4/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7C061**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**3/6/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03D0412**		
Instrument:	**03**		
Date of Calibration Verification:	**4/20/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D098 **URS Chemist: Lyn Griswold**
Date Verified: 5/10/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B CCV Criteria (Filename)	**CVO03D0412**		
Instrument:	**03**		
Date of Calibration Verification:	**4/20/2013**		
	Yes	**No**	**N/A**
response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)			
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7C0610**		
Instrument:	**E7**		
Date of Calibration Verification:	**4/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?		X	

The %D for benzo(a)anthracene (24.9) was outside evaluation criteria.

Field ID	Parameter	Analyte	Qualification
CA505-SB10-020	SVOCs	benzo(a)anthracene	**J**
CA505-SB10-024	SVOCs	benzo(a)anthracene	**J**
CA505-SB02-005	SVOCs	benzo(a)anthracene	**J**
CA505-SB502-005	SVOCs	benzo(a)anthracene	**J**
CA505-SB02-010	SVOCs	benzo(a)anthracene	**J**
CA505-SB502-010	SVOCs	benzo(a)anthracene	**J**
CA505-SB02-015	SVOCs	benzo(a)anthracene	**UJ**
CA505-SB02-020	SVOCs	benzo(a)anthracene	**J**
CA505-SB02-025	SVOCs	benzo(a)anthracene	**J**
CA505-SB02-030	SVOCs	benzo(a)anthracene	**J**
CA505-SB06-005	SVOCs	benzo(a)anthracene	**J**
CA505-SB06-010	SVOCs	benzo(a)anthracene	**J**
CA505-SB06-015	SVOCs	benzo(a)anthracene	**UJ**
CA505-SB06-020	SVOCs	benzo(a)anthracene	**J**
CA505-SB06-025	SVOCs	benzo(a)anthracene	**UJ**

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD22015A/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D098 **URS Chemist: Lyn Griswold**
Date Verified: 5/10/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD22027A/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD22039A/40A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD22049A/50A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D098 **URS Chemist: Lyn Griswold**
Date Verified: 5/10/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA505-SB02-020 was spiked and analyzed for PAHs. Sample CA505-SB06-025 was spiked and analyzed for DRO/ORO.

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA505-SB02-005	CA505-SB502-005
CA505-SB02-010	CA505-SB502-010

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D098 **URS Chemist: Lyn Griswold**
Date Verified: 5/10/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D102 **URS Chemist: Lyn Griswold**
Date Verified: 5/9/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA505-SB501-015	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB01-015	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB501-020	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB01-020	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB01-025	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB01-030	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB07-005	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB07-010	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB07-015	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB07-020	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB07-025	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB10-005	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB10-010	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB10-015	4/17/2013	4/18/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

The laboratory case narrative indicated PAH sample CA505-SB07-025 required dilution due to elevated levels of non-target compounds. A PAH CCV %D was outside evaluation criteria. No other issues were noted in the laboratory case narrative or cooler receipt form.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D102 **URS Chemist: Lyn Griswold**
Date Verified: 5/9/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D04**		
Instrument:	**03**		
Date of Tuning:	**4/4/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D20**		
Instrument:	**03**		
Date of Tuning:	**4/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D21**		
Instrument:	**03**		
Date of Tuning:	**4/23/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D102 **URS Chemist: Lyn Griswold**
Date Verified: 5/9/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7C0601**		
Instrument:	**E7**		
Date of Tuning:	**3/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7C0611**		
Instrument:	**E7**		
Date of Tuning:	**4/22/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**4/4/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30% and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**3/6/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D102 **URS Chemist: Lyn Griswold**
Date Verified: 5/9/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**3/6/2013**		
	Yes	**No**	**N/A**
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03D041**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**4/4/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7C0601**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**3/6/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D102 **URS Chemist: Lyn Griswold**
Date Verified: 5/9/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03D0413**		
Instrument:	**03**		
Date of Calibration Verification:	**4/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03D0414**		
Instrument:	**03**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7C0611**		
Instrument:	**E7**		
Date of Calibration Verification:	**4/22/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7C0610**		
Instrument:	**E7**		
Date of Calibration Verification:	**4/19/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?		X	

The %D for benzo(a)anthracene (25.5) was outside evaluation criteria.

Field ID	Parameter	Analyte	Qualification
CA505-SB501-015	SVOCs	Benzo(a)anthracene	**UJ**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D102 **URS Chemist: Lyn Griswold**
Date Verified: 5/9/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Field ID	Parameter	Analyte	Qualification
CA505-SB01-015	SVOCs	Benzo(a)anthracene	**UJ**
CA505-SB501-020	SVOCs	Benzo(a)anthracene	**UJ**
CA505-SB01-020	SVOCs	Benzo(a)anthracene	**UJ**
CA505-SB01-025	SVOCs	Benzo(a)anthracene	**UJ**
CA505-SB01-030	SVOCs	Benzo(a)anthracene	**UJ**
CA505-SB07-005	SVOCs	Benzo(a)anthracene	**UJ**
CA505-SB07-010	SVOCs	Benzo(a)anthracene	**UJ**
CA505-SB07-015	SVOCs	Benzo(a)anthracene	**UJ**
CA505-SB07-020	SVOCs	Benzo(a)anthracene	**UJ**
CA505-SB07-025	SVOCs	Benzo(a)anthracene	**J**
CA505-SB10-005	SVOCs	Benzo(a)anthracene	**J**
CA505-SB10-010	SVOCs	Benzo(a)anthracene	**J**
CA505-SB10-015	SVOCs	Benzo(a)anthracene	**J**

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD22049A/50A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD22061A/62A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD22073A/74A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D102 **URS Chemist: Lyn Griswold**
Date Verified: 5/9/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD22080A/81A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C Surrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D IS Criteria	**Yes**	**No**	**N/A**
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	**Yes**	**No**	**N/A**
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D102 **URS Chemist: Lyn Griswold**
Date Verified: 5/9/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

MS/MSD Criteria	Yes	No	N/A
QAPP?			

Samples CA505-SB07-025 and CA505-SB10-005 were spiked and analyzed for BTEX+N, PAHs, and DRO/ORO.

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
CA505-SB07-025	SVOCs	2-Methylnaphthalene	**176/210**	11	45-105/30
CA505-SB07-025	SVOCs	Benzo(k)fluoranthene	**263/308**	11	45-125/30
CA505-SB07-025	SVOCs	Dibenz(a,h)anthracene	**146/143**	2	40-125/30
CA505-SB07-025	SVOCs	Indeno(1,2,3-cd)pyrene	**279/323**	9	40-120/30

Analytical data that required qualification based on MS/MSD data are included in the table below. The MS/MSD recoveries for analytes with sample concentrations greater than four times (4X) the matrix spike concentration did not require evaluation or qualification.

Field ID	Parameter	Analyte	Qualification
CA505-SB07-025	SVOCs	2-Methylnaphthalene	**J**
CA505-SB07-025	SVOCs	Benzo(k)fluoranthene	**J**
CA505-SB07-025	SVOCs	Dibenz(a,h)anthracene	**J**
CA505-SB07-025	SVOCs	Indeno(1,2,3-cd)pyrene	**J**

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA505-SB01-015	CA505-SB501-015
CA505-SB01-020	CA505-SB501-020

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D102 **URS Chemist: Lyn Griswold**
Date Verified: 5/9/2013 **URS ITR: Steve Gragert**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Sample CA505-SB07-025 was analyzed for PAHs at a 3X dilution due to elevated levels of non-target compounds.

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D120 **URS Chemist: Steve Gragert**
Date Verified: 7/3/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 6010B and 7470A

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
WC1	4/18/2013	4/19/2013	IDW-Soil	Metals (6010B/7470A)
WC2	4/18/2013	4/19/2013	IDW-Soil	Metals (6010B/7470A)
WC3	4/18/2013	4/19/2013	IDW-Soil	Metals (6010B/7470A)
WC4	4/18/2013	4/19/2013	IDW-Soil	Metals (6010B/7470A)
WC5	4/18/2013	4/19/2013	IDW-Soil	Metals (6010B/7470A)
WC6	4/18/2013	4/19/2013	IDW-Soil	Metals (6010B/7470A)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

No issues were noted in the laboratory case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Initial Calibration

Method 6010B Initial Calibration Criteria			
Instrument:	**D8**		
Date of Calibration:	**4/26/2013**		
	Yes	**No**	**N/A**
Was a minimum of two standards and a calibration blank used for ICAL?	X		
Was $r \geq 0.995$?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D120 **URS Chemist: Steve Gragert**
Date Verified: 7/3/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 6010B and 7470A

Method 7470A Initial Calibration Criteria			
Instrument:	**47**		
Date of Calibration:	**4/26/2013**		
	Yes	**No**	**N/A**
Was a minimum of five standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

5.0 Initial Calibration Verification [(ICV) Second Source]

Method 6010B ICV Criteria (Filename)	**ID8D022014**		
Instrument:	**D8**		
Date of Initial Calibration Verification:	**4/26/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 7470A ICV Criteria (Filename)	**M47D020007**		
Instrument:	**47**		
Date of Initial Calibration Verification:	**4/26/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

6.0 Continuing Calibration Verification (CCV)

Method 6010B CCV Criteria (Filename)	**ID8022048**		
Instrument:	**D8**		
Date of Calibration Verification:	**4/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6010B CCV Criteria (Filename)	**ID8022058**		
Instrument:	**D8**		
Date of Calibration Verification:	**4/26/2013**		
	Yes	**Yes**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D120 **URS Chemist: Steve Gragert**
Date Verified: 7/3/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 6010B and 7470A

Method 7470A CCV Criteria (Filename)	**M47D020021**		
Instrument:	**47**		
Date of Calibration Verification:	**4/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7470A CCV Criteria (Filename)	**M47D020033**		
Instrument:	**47**		
Date of Calibration Verification:	**4/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7470A CCV Criteria (Filename)	**M47D020045**		
Instrument:	**47**		
Date of Calibration Verification:	**4/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

Method 7470A CCV Criteria (Filename)	**M47D020053**		
Instrument:	**47**		
Date of Calibration Verification:	**4/26/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 20% of the expected value (initial source)?	X		

7.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D120 **URS Chemist: Steve Gragert**
Date Verified: 7/3/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 6010B and 7470A

Blank ID	Parameter	Analyte	Concentration	LOQ	Units
ID8D022050	Metals	Barium	0.00955	0.05	mg/L

All associated lead results were >5X the blank contamination; therefore, no qualification of data was required.

8.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

9.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Samples WC3 and WC6 were spiked and analyzed for metals.

10.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

The matrix duplicate was performed on samples WC3 and WC6.

11.0 Dilution Test

Method 6010B Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

The dilution test was performed on samples WC3 and WC6.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D120 **URS Chemist: Steve Gragert**
Date Verified: 7/3/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 6010B and 7470A

12.0 Post Digestion Spike (PDS) Recoveries

Method 6010B PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

The post digestion spike was performed on samples WC3 and WC6.

13.0 Interference Check Solutions (ICS)

Method 6010B ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

14.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

18.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

19.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?		X	
Was professional judgment used to qualify data (if yes, list below)?		X	
Were 8081B, 8082A and 8330A results between the primary and secondary column RPD < 40%?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D120 **URS Chemist: Steve Gragert**
Date Verified: 7/3/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 6010B and 7470A

20.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D121 **URS Chemist: Steve Gragert**
Date Verified: 5/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA505-SB08-005	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB08-010	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB08-015	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB08-020	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB08-025	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB05-005	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB05-010	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB05-015	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB05-020	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB05-025	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB03-005	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB03-010	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB03-015	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB503-015	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB03-020	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB03-025	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA505-SB03-030	4/18/2013	4/19/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D121 **URS Chemist: Steve Gragert**
Date Verified: 5/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

No issues were noted in the laboratory case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?	X	
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?	X	
Were samples relinquished properly on the COC?	X	

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D04**		
Instrument:	**03**		
Date of Tuning:	**4/4/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D21**		
Instrument:	**03**		
Date of Tuning:	**4/23/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D22**		
Instrument:	**03**		
Date of Tuning:	**4/25/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D121 **URS Chemist: Steve Gragert**
Date Verified: 5/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03D22**		
Instrument:	**03**		
Date of Tuning:	**4/25/2013**		
	Yes	**No**	**N/A**
listed in Table 4 of SW-846 Method 8260B?			

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7C0601**		
Instrument:	**E7**		
Date of Tuning:	**3/6/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE7C0612**		
Instrument:	**E7**		
Date of Tuning:	**4/23/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**4/4/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30% and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D121 **URS Chemist: Steve Gragert**
Date Verified: 5/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E7**		
Date of Calibration:	**3/6/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO03D041**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**4/4/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE7C0601**		
Instrument:	**E7**		
Date of Initial Calibration Verification:	**3/6/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D121 **URS Chemist: Steve Gragert**
Date Verified: 5/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**1/8/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO03D0414**		
Instrument:	**03**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03D0415**		
Instrument:	**03**		
Date of Calibration Verification:	**4/25/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE7C0612**		
Instrument:	**E7**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D121 **URS Chemist: Steve Gragert**
Date Verified: 5/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD23011A/12A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD23023A/24A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD23035A/36A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LD23042A/43A**		
Instrument:	**D5**		
Date of Calibration Verification:	**4/23/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D121 **URS Chemist: Steve Gragert**
Date Verified: 5/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA505-SB08-020 was spiked and analyzed for BTEX+N, PAHs, and DRO/ORO.

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA505-SB03-015	CA505-SB503-015

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13D121 **URS Chemist: Steve Gragert**
Date Verified: 5/13/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

Sample CA505-SB07-025 was analyzed for PAHs at a 3X dilution due to elevated levels of non-target compounds.

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB01-130	7/9/2013	7/10/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-135	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB501-135	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-140	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-145	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-150	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-155	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-160	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB501-160	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-165	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-170	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-175	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-180	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-185	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-190	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-195	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-200	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-205	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-210	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-215	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-220	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB01-225	7/10/2013	7/11/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated BTEX+N MS/MSD and surrogate recoveries were outside evaluation criteria. No other issues were noted in the laboratory case narrative.

The cooler receipt form indicated sample CA504-SB01-130 had collection time inconsistencies between the sample label and the COC. See Section 2.0 for further details.

Sample CA504-SB01-130 was received by the laboratory one day before the other samples arrived. Per the URS chemist, the samples were batched together into one SDG. No other issues were noted in the laboratory case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

The cooler receipt form indicated sample CA504-SB01-130 had collection time inconsistencies between the sample label and the COC. Per URS chemist, the sample was logged in per the COC. No qualification of data was required.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB02G04**		
Instrument:	**02**		
Date of Tuning:	**7/9/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4F12**		
Instrument:	**F4**		
Date of Tuning:	**6/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03E01**		
Instrument:	**03**		
Date of Tuning:	**5/2/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB02G07**		
Instrument:	**02**		
Date of Tuning:	**7/11/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB02G08**		
Instrument:	**02**		
Date of Tuning:	**7/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B Instrument Tuning Criteria (Filename)	**BFB02G08**		
Instrument:	**02**		
Date of Tuning:	**7/12/2013**		
	Yes	**No**	**N/A**
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4G08**		
Instrument:	**02**		
Date of Tuning:	**7/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4G08**		
Instrument:	**F4**		
Date of Tuning:	**7/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4G10**		
Instrument:	**F4**		
Date of Tuning:	**7/15/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4G11**		
Instrument:	**F4**		
Date of Tuning:	**7/16/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03G08**		
Instrument:	**03**		
Date of Tuning:	**7/15/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB03G09**		
Instrument:	**03**		
Date of Tuning:	**7/16/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4D1101**		
Instrument:	**E4**		
Date of Tuning:	**4/11/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4D1127**		
Instrument:	**E4**		
Date of Tuning:	**7/12/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE401128**		
Instrument:	**E4**		
Date of Tuning:	**7/15/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**02**		
Date of Calibration:	**7/9/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30% and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?	X		
If non-linear regression was used were 6 points used for second order and 7 points for third order?	X		

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**6/20/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30% and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**5/2/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30% and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B Initial Calibration Criteria			
Instrument:	**03**		
Date of Calibration:	**5/2/2013**		
	Yes	**No**	**N/A**
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**4/11/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the $r \geq 0.995$?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**5/24/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the $r \geq 0.995$?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO02G091**		
Instrument:	**02**		
Date of Initial Calibration Verification:	**7/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B ICV Criteria (Filename)	**IVOF4F201**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**6/20/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8260B ICV Criteria (Filename)	**IVO03E021**		
Instrument:	**03**		
Date of Initial Calibration Verification:	**5/2/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4D111**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**4/11/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LE24007A LE24010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**5/24/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO02G0902**		
Instrument:	**02**		
Date of Calibration Verification:	**7/11/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B CCV Criteria (Filename)	**CVO02G0903**		
Instrument:	**02**		
Date of Calibration Verification:	**7/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4F2008**		
Instrument:	**F4**		
Date of Calibration Verification:	**7/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4F2009**		
Instrument:	**F4**		
Date of Calibration Verification:	**7/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4F2010**		
Instrument:	**F4**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B CCV Criteria (Filename)	**CVO03E0223**		
Instrument:	**03**		
Date of Calibration Verification:	**7/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVO03E0224**		
Instrument:	**03**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4D1127**		
Instrument:	**E4**		
Date of Calibration Verification:	**7/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4D1128**		
Instrument:	**E4**		
Date of Calibration Verification:	**7/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LG12013A/14A**		
Instrument:	**D5**		
Date of Calibration Verification:	**7/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO CCV Criteria (Filename)	**LG12013A/14A**		
Instrument:	**D5**		
Date of Calibration Verification:	**7/12/2013**		
	Yes	**No**	**N/A**
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LG12025A/26A**		
Instrument:	**D5**		
Date of Calibration Verification:	**7/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LG12037A/38A**		
Instrument:	**D5**		
Date of Calibration Verification:	**7/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LG12049A/50A**		
Instrument:	**D5**		
Date of Calibration Verification:	**7/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LG12061A/62A**		
Instrument:	**D5**		
Date of Calibration Verification:	**7/12/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

8.0 Blank Samples

Blank Criteria	Yes	No	N/A
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?		X	

Field ID	Parameter	Surrogate	Recovery	Criteria
CA504-SB01-160	BTEX+N	4-Bromofluorobenzene	**77.1**	85-120
CA504-SB501-160	BTEX+N	4-Bromofluorobenzene	**72.1**	85-120
CA504-SB01-165	BTEX+N	4-Bromofluorobenzene	**73.6**	85-120
CA504-SB01-170	BTEX+N	4-Bromofluorobenzene	**291**	85-120
CA504-SB01-175	BTEX+N	4-Bromofluorobenzene	**201**	85-120
CA504-SB01-180	BTEX+N	4-Bromofluorobenzene	**221**	85-120
CA504-SB01-185	BTEX+N	4-Bromofluorobenzene	**173**	85-120
CA504-SB01-190	BTEX+N	4-Bromofluorobenzene	**187**	85-120
CA504-SB01-195	BTEX+N	4-Bromofluorobenzene	**155**	85-120
CA504-SB01-200	BTEX+N	4-Bromofluorobenzene	**146**	85-120
CA504-SB01-205	BTEX+N	4-Bromofluorobenzene	**150**	85-120
CA504-SB01-210	BTEX+N	4-Bromofluorobenzene	**150**	85-120

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which were reported as nondetect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Qualification
CA504-SB01-160	BTEX+N	Benzene	**UJ**
CA504-SB01-160	BTEX+N	Ethylbenzene	**J**
CA504-SB01-160	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-160	BTEX+N	Naphthalene	**J**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Field ID	Parameter	Analyte	Qualification
CA504-SB01-160	BTEX+N	*o*-Xylene	**J**
CA504-SB01-160	BTEX+N	Toluene	**J**
CA504-SB501-160	BTEX+N	Benzene	**UJ**
CA504-SB501-160	BTEX+N	Ethylbenzene	**J**
CA504-SB501-160	BTEX+N	*m,p*-Xylene	**J**
CA504-SB501-160	BTEX+N	Naphthalene	**J**
CA504-SB501-160	BTEX+N	*o*-Xylene	**J**
CA504-SB501-160	BTEX+N	Toluene	**J**
CA504-SB01-165	BTEX+N	Benzene	**UJ**
CA504-SB01-165	BTEX+N	Ethylbenzene	**J**
CA504-SB01-165	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-165	BTEX+N	Naphthalene	**J**
CA504-SB01-165	BTEX+N	*o*-Xylene	**J**
CA504-SB01-165	BTEX+N	Toluene	**J**
CA504-SB01-170	BTEX+N	Ethylbenzene	**J**
CA504-SB01-170	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-170	BTEX+N	Naphthalene	**J**
CA504-SB01-170	BTEX+N	*o*-Xylene	**J**
CA504-SB01-170	BTEX+N	Toluene	**J**
CA504-SB01-175	BTEX+N	Ethylbenzene	**J**
CA504-SB01-175	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-175	BTEX+N	Naphthalene	**J**
CA504-SB01-175	BTEX+N	*o*-Xylene	**J**
CA504-SB01-175	BTEX+N	Toluene	**J**
CA504-SB01-180	BTEX+N	Ethylbenzene	**J**
CA504-SB01-180	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-180	BTEX+N	Naphthalene	**J**
CA504-SB01-180	BTEX+N	*o*-Xylene	**J**
CA504-SB01-180	BTEX+N	Toluene	**J**
CA504-SB01-185	BTEX+N	Ethylbenzene	**J**
CA504-SB01-185	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-185	BTEX+N	Naphthalene	**J**
CA504-SB01-185	BTEX+N	*o*-Xylene	**J**
CA504-SB01-185	BTEX+N	Toluene	**J**
CA504-SB01-190	BTEX+N	Ethylbenzene	**J**
CA504-SB01-190	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-190	BTEX+N	Naphthalene	**J**
CA504-SB01-190	BTEX+N	*o*-Xylene	**J**
CA504-SB01-190	BTEX+N	Toluene	**J**
CA504-SB01-195	BTEX+N	Ethylbenzene	**J**
CA504-SB01-195	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-195	BTEX+N	Naphthalene	**J**
CA504-SB01-195	BTEX+N	*o*-Xylene	**J**
CA504-SB01-200	BTEX+N	Ethylbenzene	**J**

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Field ID	Parameter	Analyte	Qualification
CA504-SB01-200	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-200	BTEX+N	Naphthalene	**J**
CA504-SB01-200	BTEX+N	*o*-Xylene	**J**
CA504-SB01-205	BTEX+N	Ethylbenzene	**J**
CA504-SB01-205	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-205	BTEX+N	Naphthalene	**J**
CA504-SB01-205	BTEX+N	*o*-Xylene	**J**
CA504-SB01-205	BTEX+N	Toluene	**J**
CA504-SB01-210	BTEX+N	Ethylbenzene	**J**
CA504-SB01-210	BTEX+N	*m,p*-Xylene	**J**
CA504-SB01-210	BTEX+N	Naphthalene	**J**
CA504-SB01-210	BTEX+N	*o*-Xylene	**J**
CA504-SB01-210	BTEX+N	Toluene	**J**

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Samples CA504-SB01-145 and CA504-SB01-180 were spiked and analyzed for BTEX+N, PAHs, and DRO/ORO.

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
CA504-SB01-145	BTEX+N	Ethylbenzene	**37/21**	**55**	75-125/30
CA504-SB01-145	BTEX+N	*m,p*-Xylene	**165/141**	16	80-125/30
CA504-SB01-145	BTEX+N	Naphthalene	**35/37**	6	40-125/30
CA504-SB01-145	BTEX+N	*o*-Xylene	**190/158**	18	75-125/30
CA504-SB01-145	BTEX+N	Toluene	**63**/73	15	70-125/30
CA504-SB01-180	BTEX+N	Ethylbenzene	**19/5**	7	75-125/30
CA504-SB01-180	BTEX+N	*m,p*-Xylene	**185/151**	10	80-125/30

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
CA504-SB01-180	BTEX+N	Naphthalene	**482/484**	0	40-125/30
CA504-SB01-180	BTEX+N	*o*-Xylene	**195/154**	11	75-125/30

Per the Cannon AFB SI at Eight Sites UFP-QAPP, samples should not be qualified based on MS/MSD data alone and LCS recoveries were within evaluation criteria. No qualification of data was required.

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.		X	
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA504-SB01-135	CA504-SB501-135
CA504-SB01-160	CA504-SB501-160

Analytical data that required qualification based on parent sample / field duplicate RPDs and/or differences are included in the table below.

Parent Sample ID	Field Duplicate Sample ID	Parameter	Analyte	RPD or difference	Qualification
CA504-SB01-135	CA504-SB501-135	BTEX	*m,p*-Xylene	**69**	**J/J**
CA504-SB01-135	CA504-SB501-135	BTEX	*o*-Xylene	**71**	**J/J**

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G037 **URS Chemist: Steve Gragert**
Date Verified: 7/19/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G055 **URS Chemist: Steve Gragert**
Date Verified: 7/23/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA504-SB01-230	7/11/2013	7/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-235	7/11/2013	7/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-240	7/11/2013	7/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-245	7/11/2013	7/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB501-240	7/11/2013	7/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-250	7/11/2013	7/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-255	7/11/2013	7/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-260	7/11/2013	7/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-265	7/11/2013	7/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-270	7/11/2013	7/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)
CA504-SB01-275	7/11/2013	7/12/2013	Soil	BTEX+N (8260B), Low-Level PAHs (8270D-SIM), DRO/ORO (8015C)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?		X	
Were DoD-QSM corrective actions followed if deviations were noted?			X
Were any issues noted in the cooler receipt form?	X		

No issues were noted in the laboratory case narrative. The cooler receipt form indicated discrepancies between the COC and sample labels for two samples. This issue is discussed further in Section 2.0.

No other issues were noted in the laboratory case narrative or cooler receipt form.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?		X
Did samples listed on COCs match the sample labels?		X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G055 **URS Chemist: Steve Gragert**
Date Verified: 7/23/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Verification Criteria	Yes	No
Were samples relinquished properly on the COC?	X	

The cooler receipt form indicated sample CA504-SB01-250 had one VOA vial labeled as CA504-SB501-250 which is the field duplicate of sample CA504-SB01-250. Since the samples were a field duplicate/parent pair, no qualification of data was required.

Sample CA504-SB01-275 had one VOA vial labeled as CA504-SB15-030. Sample CA504-SB15-030 was collected in February 2013. The field crew accidently used the incorrect label to this sample. No qualification of data was required.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB02G04**		
Instrument:	**02**		
Date of Tuning:	**7/9/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4F12**		
Instrument:	**F4**		
Date of Tuning:	**6/20/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB02G10**		
Instrument:	**02**		
Date of Tuning:	**7/16/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G055 **URS Chemist: Steve Gragert**
Date Verified: 7/23/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B Instrument Tuning Criteria (Filename)	**BFB02G10**		
Instrument:	**02**		
Date of Tuning:	**7/16/2013**		
	Yes	**No**	**N/A**
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4G10**		
Instrument:	**F4**		
Date of Tuning:	**7/15/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4G11**		
Instrument:	**F4**		
Date of Tuning:	**7/16/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFBF4G12**		
Instrument:	**F4**		
Date of Tuning:	**7/17/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4D1101**		
Instrument:	**E4**		
Date of Tuning:	**4/11/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G055 **URS Chemist: Steve Gragert**
Date Verified: 7/23/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4D11307**		
Instrument:	**E4**		
Date of Tuning:	**7/16/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

5.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**02**		
Date of Calibration:	**7/9/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30% and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?	X		
If non-linear regression was used were 6 points used for second order and 7 points for third order?	X		

Method 8260B Initial Calibration Criteria			
Instrument:	**F4**		
Date of Calibration:	**6/20/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30% and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G055 **URS Chemist: Steve Gragert**
Date Verified: 7/23/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**4/11/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**5/24/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

6.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IVO02G091**		
Instrument:	**02**		
Date of Initial Calibration Verification:	**7/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8260B ICV Criteria (Filename)	**IVOF4F201**		
Instrument:	**F4**		
Date of Initial Calibration Verification:	**6/20/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G055 **URS Chemist: Steve Gragert**
Date Verified: 7/23/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4D111**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**4/11/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LE24007A LE24010A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**5/24/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

7.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO02G0905**		
Instrument:	**02**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4F2010**		
Instrument:	**F4**		
Date of Calibration Verification:	**7/15/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G055 **URS Chemist: Steve Gragert**
Date Verified: 7/23/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8260B CCV Criteria (Filename)	**CVOF4F2010**		
Instrument:	**F4**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8260B CCV Criteria (Filename)	**CVOF4F2011**		
Instrument:	**F4**		
Date of Calibration Verification:	**7/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4D1130**		
Instrument:	**E4**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LG16015A/16A**		
Instrument:	**D5**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G055 **URS Chemist: Steve Gragert**
Date Verified: 7/23/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

Method 8015C DRO/ORO CCV Criteria (Filename)	**LG16027A/28A**		
Instrument:	**D5**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

8.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?		X	

9.0 Laboratory Control Sample (LCS)

LCS Criteria	**Yes**	**No**	**N/A**
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

10.0 Surrogate Recoveries

Methods 8260B/8270D/8015C Surrogate Criteria	**Yes**	**No**	**N/A**
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

11.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D IS Criteria	**Yes**	**No**	**N/A**
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G055 **URS Chemist: Steve Gragert**
Date Verified: 7/23/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D-SIM, 8015C

12.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA504-SB01-240 was spiked and analyzed for PAHs and DRO/ORO.

13.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)	X		
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.	X		
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ	X		

Parent Sample ID	Field Duplicate Sample ID
CA504-SB01-240	CA504-SB501-240

14.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

15.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X
Was professional judgment used to qualify data (if yes, list below)?			X

16.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Sample Identification #	Date Collected	Date Received	Matrix	Analysis
CA-IDW-01	7/12/2013	7/13/2013	Soil	VOCs (8260B), SVOCs (8270D), Low-Level PAHs (8270D-SIM), GRO/DRO/ORO (8015C), Pesticides (8081B), PCBs (8082A), Metals (6020A), Dioxins/Furans (8290 Dioxins/Furans)

1.0 Laboratory Case Narrative \ Cooler Receipt Form

Verification Criteria	Yes	No	N/A
Were any DoD-QSM deviations noted in the laboratory case narrative?	X		
Were DoD-QSM corrective actions followed if deviations were noted?	X		
Were any issues noted in the cooler receipt form?	X		

The laboratory case narrative indicated a pesticides CCV %D was above evaluation criteria. Metals MS recoveries were outside evaluation criteria. The dioxins 1234678-HpCDD, OCDD, 1234678-HpCDF and OCDF were detected in a method blank at levels less than the MRL. These issues are addressed in the appropriate sections below.

The cooler receipt form indicated the sample was identified incorrectly on the COC as CA-IDW-01-1 and CA-IDW-01-2. This issue is discussed further in Section 2.0.

2.0 Sample Documentation

Verification Criteria	Yes	No
Were all samples documented correctly on the chain-of-custody (COC) and samples labels?		X
Were all sample identifications (IDs) documented correctly on sample labels?	X	
Did samples listed on COCs match the sample labels?		X
Were samples relinquished properly on the COC?	X	

The cooler receipt form indicated the sample was identified incorrectly on the COC as CA-IDW-01-1 and CA-IDW-01-2. Per the URS chemist, the sample was logged in as CA-IDW-01. The field crew labeled the jars for sample CA-IDW-01 as "-1" and the other as "-2". No qualification of data was required.

3.0 Holding Time

Verification Criteria	Yes	No	N/A
Were all samples extracted/analyzed within holding time?	X		
Were samples outside holding time extracted/analyzed < 2x holding time?			X
Were samples outside holding time extracted/analyzed > 2x holding time?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

4.0 Instrument Performance Check (Tuning)

Method 8260B Instrument Tuning Criteria (Filename)	**BFB02G04**		
Instrument:	**02**		
Date of Tuning:	**7/9/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8260B Instrument Tuning Criteria (Filename)	**BFB02G14**		
Instrument:	**02**		
Date of Tuning:	**7/18/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 4 of SW-846 Method 8260B?	X		

Method 8270D and 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4D1101**		
Instrument:	**E4**		
Date of Tuning:	**4/11/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 8270D and 8270D-SIM Instrument Tuning Criteria (Filename)	**DFTE4D1131**		
Instrument:	**E4**		
Date of Tuning:	**7/17/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Were all samples analyzed under an acceptable 12 hour clock tune?	X		
Were ion relative abundance for each target mass within the required intensities limits listed in Table 3 of SW-846 Method 8270D?	X		

Method 6020A Instrument Tuning Criteria (Filename)	**F6G07001**		
Instrument:	**F6**		
Date of Tuning:	**7/17/2013**		
	Yes	**No**	**N/A**
Was instrument tuning completed prior to calibration?	X		
Was the mass calibration ≤ 0.1amu from the true value?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Method 6020A Instrument Tuning Criteria (Filename)	**F6G07001**		
Instrument:	**F6**		
Date of Tuning:	**7/17/2013**		
	Yes	**No**	**N/A**
Was the resolution < 0.9 amu full width at 10% peak height?	X		
For stability, was the RSD ≤ 5% for at least 4 replicate analyses?	X		

Method 8290 Instrument Tuning Criteria			
Instrument:	**AutoSpec-Ultima**		
Date of Tuning:	**7/18/2012**		
	Yes	**No**	**N/A**
Was instrument tuning completed at the beginning and the end of each 12-hour period of analysis?	X		
Was the static resolving power ≥ 10,000 (10% valley) for identified masses per method?	X		
Was the lock-mass ion between lowest and highest masses for each descriptor and level of reference compound ≤ 10% full-scale deflection, per Method 8290?	X		

5.0 Breakdown Check

Method 8081B (Endrin and DDT) (Filename)	**MG03008A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**7/4/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

Method 8081B (Endrin and DDT) (Filename)	**MG16006A/B**		
Instrument:	**E8**		
Date of Breakdown Check:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the breakdown check analyzed at the beginning of each 12-hour period, prior to analysis of samples?	X		
Was the degradation < 15% for both DDT and Endrin?	X		

6.0 GC Column Performance Check

Method 8290 GC Column Performance Check	**P223792**		
Instrument:	**AutoSpec-Ultima**		
Date of Performance Check:	**7/18/2012**		
	Yes	**No**	**N/A**
Was the GC column performance check analyzed prior to ICAL or calibration verification?	X		
Did peak separation between 2,3,7,8-TCDD and other TCDD isomers result in a valley of ≤ 25%, per Method 8290?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Method 8290 GC Column Performance Check	**P223792**		
Instrument:	**AutoSpec-Ultima**		
Date of Performance Check:	**7/18/2012**		
	Yes	**No**	**N/A**
Was the identification of all first and last eluters of the eight homologue retention time windows documented by labeling (F/L) on the chromatogram?	X		
Were absolute retention times for switching from one homologous series to the next ≥ 10 seconds for all components of the mixture?	X		

7.0 Initial Calibration

Method 8260B Initial Calibration Criteria			
Instrument:	**02**		
Date of Calibration:	**7/9/2013**		
	Yes	**No**	**N/A**
Are the average response factors (RFs) for SPCCs above the minimum DoD-QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Are the RSDs for CCCs (1,1-Dichloroethene; Chloroform; 1,2-Dichloropropane; Toluene; Ethylbenzene and Vinyl Chloride) for VOCs ≤ 30%? and one option below?	X		
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**4/11/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**4/11/2013**		
	Yes	**No**	**N/A**
Option 1: RSD for each analyte ≤ 15%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?	X		
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Method 8270D-SIM Initial Calibration Criteria			
Instrument:	**E4**		
Date of Calibration:	**4/11/2013**		
	Yes	**No**	**N/A**
0.99?			
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C GRO Initial Calibration Criteria			
Instrument:	**GCT39**		
Date of Calibration:	**6/7/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8015C DRO/ORO Initial Calibration Criteria			
Instrument:	**D5**		
Date of Calibration:	**5/24/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq$ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Method 8081B Initial Calibration Criteria			
Instrument:	**E8**		
Date of Calibration:	**7/4/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination $r^2 \geq 0.99$?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Method 8082A Initial Calibration Criteria			
Instrument:	**71**		
Date of Calibration:	**2/8/2013**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis	X		
Option 1: RSD for each analyte ≤ 20%?	X		
Option 2: If linear least squares regression was used was the r ≥ 0.995?			X
Option 3: If non-linear regression was used was the coefficient of determination r^2 ≥ 0.99?			X
If non-linear regression was used were 6 points used for second order and 7 points for third order?		/	X

Method 6020A Initial Calibration Criteria			
Instrument:	**F6**		
Date of Calibration:	**7/17/2013**		
	Yes	**No**	**N/A**
Were a minimum of two standards and a calibration blank used for ICAL?	X		
Was r ≥ 0.995?	X		

Method 8290 Initial Calibration Criteria			
Instrument:	**AutoSpec-Ultima**		
Date of Calibration:	**5/3/2012**		
	Yes	**No**	**N/A**
Was the ICAL analyzed prior to sample analysis, as needed by the failure of calibration verification standard, and when a new lot is used as a standard source for HRCC-3, sample fortification (IS), or recovery solutions?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
Was the S/N ratio ≥ 10 for all target analyte ions?	X		
Was the RSD ≤ 20% for the response factors (RF) for all 17 unlabeled standards and RSD ≤ 20% for the RFs for the 9 labeled IS?	X		

8.0 Initial Calibration Verification [(ICV) Second Source]

Method 8260B ICV Criteria (Filename)	**IV002G091**		
Instrument:	**02**		
Date of Initial Calibration Verification:	**7/9/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Method 8270D ICV Criteria (Filename)	**ISVE4D111**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**4/11/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8270D-SIM ICV Criteria (Filename)	**ISVE4D11A1**		
Instrument:	**E4**		
Date of Initial Calibration Verification:	**4/11/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C GRO ICV Criteria (Filename)	**EF07010A**		
Instrument:	**GCT39**		
Date of Initial Calibration Verification:	**6/7/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8015C DRO/ORO ICV Criteria (Filename)	**LA08010A LA08017A**		
Instrument:	**D5**		
Date of Initial Calibration Verification:	**5/24/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 8081B ICV Criteria (Filename)	**MG03039A**		
Instrument:	**E8**		
Date of Initial Calibration Verification:	**7/42013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Method 8082A ICV Criteria (Filename)	**KB08066A/B**		
Instrument:	**71**		
Date of Initial Calibration Verification:	**2/8/2012**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each calibration?	X		
Was the ICV %difference (%D) for all analytes within ± 20% of the expected value (initial source)?	X		

Method 6020A ICV Criteria (Filename)	**F6G07009**		
Instrument:	**F6**		
Date of Initial Calibration Verification:	**7/17/2013**		
	Yes	**No**	**N/A**
Was the ICV analyzed after each ICAL, prior to the beginning of a sample analysis?	X		
Was the ICV % D for all analytes within ± 10% of the expected value (initial source)?	X		

9.0 Continuing Calibration Verification (CCV)

Method 8260B CCV Criteria (Filename)	**CVO02G0906**		
Instrument:	**02**		
Date of Calibration Verification:	**7/18/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (VOCs - ≥ 0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, ≥ 0.1 for chloromethane, bromoform, and 1,1-dichloroethane.)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8270D CCV Criteria (Filename)	**CSVE4D1131**		
Instrument:	**E4**		
Date of Calibration Verification:	**7/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Method 8270D-SIM CCV Criteria (Filename)	**CSVE4D11A31**		
Instrument:	**E4**		
Date of Calibration Verification:	**7/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed daily before sample analysis?	X		
Was the CCV analyzed every 12 hours of analysis time?	X		
Are the average response factors (RFs) for SPCCs above the minimum DoD QSM response factor? (SVOCs - ≥ 0.05 for N-nitroso-di-n-propylamine; hexachlorocyclopentadiene; 2,4-dinitrophenol and 4-nitrophenol)	X		
Was the CCV %difference (%D) or %drift for all target compounds ≤ 20%?	X		

Method 8015C GRO CCV Criteria (Filename)	**EG16004A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C GRO CCV Criteria (Filename)	**EG16009A**		
Instrument:	**GCT39**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LG16015/6A**		
Instrument:	**D5**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8015C DRO/ORO CCV Criteria (Filename)	**LG16027/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**Yes**	**Yes**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Method 8015C DRO/ORO CCV Criteria (Filename)	**LG16027/8A**		
Instrument:	**D5**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**Yes**	**Yes**
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8081B CCV Criteria (Filename)	**MG16033A**		
Instrument:	**E8**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8081B CCV Criteria (Filename)	**MG16045A**		
Instrument:	**E8**		
Date of Calibration Verification:	**7/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?		X	

The CCV for delta-BHC (24%) was above evaluation criteria (≤20%). All BHC data were nondetect and associated with a CCV %D above evaluation criteria; therefore, no qualification of data was required.

Method 8082A CCV Criteria (Filename)	**KG16023A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**7/16/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 8082A CCV Criteria (Filename)	**KG16030A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**7/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed prior to sample analysis, after every 10 field samples, and at the end of the analysis sequence?	X		
Were all project analytes within established retention time windows?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Method 8082A CCV Criteria (Filename)	**KG16030A/B**		
Instrument:	**71**		
Date of Calibration Verification:	**7/17/2013**		
	Yes	**No**	**N/A**
Were all project analytes within ± 20% of expected value from the ICAL?	X		

Method 6020A CCV Criteria (Filename)	**F6G07036**		
Instrument:	**F6**		
Date of Calibration Verification:	**7/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 6020A CCV Criteria (Filename)	**F6G07047**		
Instrument:	**F6**		
Date of Calibration Verification:	**7/17/2013**		
	Yes	**No**	**N/A**
Was the CCV analyzed after every 10 samples and at the end of the analysis sequence?	X		
Was the CCV %D for all analytes within ± 10% of the expected value (initial source)?	X		

Method 8290 Calibration Verification Criteria (Filename)	**P223791**		
Instrument:	**AutoSpec-Ultima**		
Date of Calibration Verification:	**7/18/2013**		
	Yes	**No**	**N/A**
Was the CV analyzed at the beginning of each 12-hour period and/or at the end of the analytical sequence?	X		
Were ion abundance ratios in accordance with criteria in Table 8 of Method 8290?	X		
For unlabeled standards, were RFs within ±20% D of the RFs established in the ICAL?	X		
For labeled standards, were RFs within ±30% D of the RFs established in the ICAL?	X		

10.0 Blank Samples

Blank Criteria	**Yes**	**No**	**N/A**
Was a method blank analyzed with every preparatory batch?	X		
Were analytes detected > ½ the LOQ and > 1/10 the amount measured in any sample or 1/10 the regulatory limit?		X	
Were target analytes detected in method, trip or calibration blanks?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Blank ID	Parameter	Analyte	Concentration	LOQ	Units
EQ1300402-06	Dioxins/Furans	1,2,3,4,6,7,8-HpCDD	0.515	2.47	ng/kg
EQ1300402-06	Dioxins/Furans	OCDD	2.68	4.95	ng/kg
EQ1300402-06	Dioxins/Furans	1,2,3,4,6,7,8-HpCDF	0.239	2.47	ng/kg
EQ1300402-06	Dioxins/Furans	OCDF	0.542	4.95	ng/kg

Qualifications due to blank contamination are included in the table below. Analytical data that were reported nondetect or at concentrations greater than five times (5X) the associated blank concentration did not require qualification.

Field ID	Parameter	Analyte	New LOQ	Qualification
CA-IDW-01	Dioxins/Furans	1,2,3,4,6,7,8-HpCDD	--	**U**
CA-IDW-01	Dioxins/Furans	OCDD	8.45	**U**
CA-IDW-01	Dioxins/Furans	1,2,3,4,6,7,8-HpCDF	--	**U**
CA-IDW-01	Dioxins/Furans	OCDF	--	**U**

11.0 Laboratory Control Sample (LCS)

LCS Criteria	Yes	No	N/A
Was an LCS analyzed with every preparatory batch?	X		
Were LCS recoveries within acceptance criteria listed in the UFP-QAPP?	X		

12.0 Surrogate Recoveries

Methods 8260B/8270D/8015C/8082A Surrogate Criteria	Yes	No	N/A
Were surrogate spikes added to all field and QC samples?	X		
Were surrogate recoveries within acceptance criteria listed in the UFP-QAPP?	X		

13.0 Internal Standard (IS) Recoveries

Methods 8260B/8270D/6020A IS Criteria	Yes	No	N/A
Were internal standards spiked for all samples and standards?	X		
Were internal standard areas within -50% to + 100% of the ICAL midpoint standard area?	X		
Were retention time ± 30 seconds from the retention time of the midpoint standard of the ICAL?	X		
For Method 6020A, were internal standard areas within 30% to 120% of the ICAL midpoint standard area?	X		

14.0 Matrix Spike/Matrix Spike Duplicate Recoveries/RPDs

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples analyzed with every preparatory batch?	X		

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

MS/MSD Criteria	Yes	No	N/A
Were MS/MSD samples collected for this SDG?	X		
Were MS/MSD recoveries/RPDs within acceptance criteria listed in the UFP-QAPP?		X	

Sample CA-IDW-01 was spiked and analyzed for metals.

MS/MSD ID	Parameter	Analyte	MS/MSD Recovery	RPD	MS/MSD/RPD Criteria
CA-IDW-01	Metals	Lead	**980**	NA	80-120

Analytical data that required qualification based on MS/MSD data are included in the table below. The MS recoveries for metals with sample concentrations greater than four times (4X) the matrix spike concentration did not require evaluation or qualification.

Field ID	Parameter	Analyte	Qualification
CA-IDW-01	Metals	Lead	**J**

15.0 Matrix Duplicate

Matrix Duplicate (MD) Criteria	Yes	No	N/A
Were MD samples analyzed with every preparatory batch?	X		
Were MD samples collected for this SDG?	X		
Were MD RPDs within acceptance criteria listed in the UFP-QAPP?	X		

Sample CA-IDW-01 was duplicated and analyzed for lead.

16.0 Dilution Test

Method 6020A Dilution Test Criteria	Yes	No	N/A
Was a dilution test sample analyzed with every preparatory batch?	X		
Was a sample from this SDG analyzed for the dilution test?	X		
Were metals concentrations > 50x the LOQ?	X		
Did the five-fold dilution agree within ± 10% of the original measurement?	X		
If the five-fold dilution did not agree within ± 10% of the original measurement, was a post digestion spike sample analyzed?			X

A dilution test was performed on lead sample CA-IDW-01.

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

17.0 Post Digestion Spike (PDS) Recoveries

Method 6020A PDS Criteria	Yes	No	N/A
Was a sample from this SDG analyzed for the post digestion spike?	X		
Was a PDS sample analyzed if the dilution test failed or metals concentrations were > 50 x the LOD?	X		
Were the PDS recoveries within 75-125%?	X		

Sample CA-IDW-01 was spiked and analyzed for lead.

18.0 Interference Check Solutions (ICS)

Method 6020A ICS Criteria	Yes	No	N/A
Were ICS-A and ICSAB samples analyzed at the beginning of the analytical run and every 12 hours?	X		
Was the ICS-A absolute value concentration for all non-spiked metals < LOD (unless they are a verified trace impurity form one of the spiked metals)	X		
Were the ICS-AB recoveries within ± 20%?	X		

19.0 Field Duplicate Samples

Field Duplicate Criteria	Yes	No	N/A
Were field duplicate samples collected for this SDG? (if yes, list below)		X	
Were parent sample / field duplicate RPDs ≤ 50% for soils for analytes that had concentrations > 5x the LOQ.			X
Were the differences between the parent sample / field duplicate < 2x the LOQ for analytes that had concentrations < 5x the LOQ			X

20.0 Sensitivity

Sensitivity Criteria	Yes	No	N/A
Was the laboratory sensitivity consistent with project (QAPP) requirements?	X		
Did all analytes meet sensitivity requirements?	X		

21.0 Sample PCDD/PCDF Identification

Sample PCDD/PCDF Identification Criteria	Yes	No	N/A
Were ion abundance ratios for each analyte within QC limits?	X		

22.0 Additional Qualifications

Additional Qualification Criteria	Yes	No	N/A
Were common laboratory contaminants detected?		X	
Were common laboratory contaminant concentrations < 2x the LOQ?			X

Cannon Air Force Base SI at Eight Sites Data Verification

Laboratory and SDG#: EMAX 13G057 **URS Chemist: Steve Gragert**
Date Verified: 8/1/2013 **URS ITR: Jeff Aust**
Guidance: DoD-QSM, Version 4.2, Appendix F Tables (DoD, 2010)
Applicable QAPP: Site Investigation at Eight Sites Cannon Air Force Base UFP QAPP (URS, 2012)
Applicable Analytical Methods: 8260B, 8270D, 8270D-SIM, 8015C, 8081B, 8082A, 6020A, 8290

Additional Qualification Criteria	Yes	No	N/A
Was professional judgment used to qualify data (if yes, list below)?			X
Were 8082A results between the primary and secondary column RPD < 40%?	X		

23.0 Completeness

Completeness Criteria	Yes	No	N/A
Were any data rejected during the verification process?		X	
Were any samples lost, broken, or in any other manner in not verified?		X	
Were samples analyses requested performed, the correct analyte lists used and correct sample preparation and analyses methods and units utilized?	X		

Analytical Data Tables

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB01-005			CA501-SB01-010			CA501-SB02-004			CA501-SB02-009		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,1,1,2-Tetrachloroethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,1,1-Trichloroethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,1,2-Trichloroethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,1-Dichloroethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,1-Dichloroethene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,1-Dichloropropene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,2,3-Trichlorobenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,2,3-Trichloropropane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,2,4-Trichlorobenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,2,4-Trimethylbenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 24	<	1.10E-02	U	<	1.40E-02	U	<	1.20E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,2-Dichlorobenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,2-Dichloroethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,2-Dichloropropane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,3-Dichlorobenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,3-Dichloropropane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
1,4-Dichlorobenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
2,2-Dichloropropane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
2-Butanone (Methyl Ethyl Ketone)	ND	0 / 24	<	1.10E-02	U	<	1.40E-02	U	<	1.20E-02	U	<	1.10E-02	U
2-Chlorotoluene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
2-Hexanone	ND	0 / 24	<	2.20E-02	U	<	2.80E-02	U	<	2.30E-02	U	<	2.30E-02	U
4-Chlorotoluene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
4-Methyl-2-Pentanone	ND	0 / 24	<	2.20E-02	U	<	2.80E-02	U	<	2.30E-02	U	<	2.30E-02	U
Acetone	ND	0 / 24	<	1.10E-02	U	<	1.40E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Bromobenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Bromochloromethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Bromodichloromethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Bromoform	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Bromomethane	ND	0 / 24	<	1.10E-02	U	<	1.40E-02	U	<	1.20E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Carbon Tetrachloride	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB01-005			CA501-SB01-010			CA501-SB02-004			CA501-SB02-009		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chlorobenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Chloroethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Chloroform	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Chloromethane	ND	0 / 24	<	1.10E-02	U	<	1.40E-02	U	<	1.20E-02	U	<	1.10E-02	U
cis-1,2-Dichloroethene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
cis-1,3-Dichloropropene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Dibromochloromethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Dibromomethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Dichlorodifluoromethane	ND	0 / 24	<	1.10E-02	U	<	1.40E-02	U	<	1.20E-02	U	<	1.10E-02	U
Ethylbenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Hexachlorobutadiene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Isopropylbenzene (Cumene)	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 24	<	1.10E-02	U	<	1.40E-02	U	<	1.20E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 24	<	1.10E-02	U	<	1.40E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
n-Butylbenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
n-Propylbenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
sec-Butylbenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Styrene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
t-Butylbenzene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Tetrachloroethene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Toluene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
trans-1,2-Dichloroethene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
trans-1,3-Dichloropropene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Trichloroethene	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Trichlorofluoromethane	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
Vinyl Chloride	ND	0 / 24	<	5.50E-03	U	<	6.90E-03	U	<	5.80E-03	U	<	5.70E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,2,4-Trichlorobenzene	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
1,2-Dichlorobenzene	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
1,3-Dichlorobenzene	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
1,4-Dichlorobenzene	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
2,4,5-Trichlorophenol	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
2,4,6-Trichlorophenol	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB01-005			CA501-SB01-010			CA501-SB02-004			CA501-SB02-009		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2,4-Dichlorophenol	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
2,4-Dimethylphenol	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
2,4-Dinitrophenol	ND	0 / 18	<	7.30E-01	U	<	7.50E-01	U	<	7.50E-01	U	<	7.60E-01	U
2,4-Dinitrotoluene	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
2,6-Dinitrotoluene	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
2-Chloronaphthalene	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
2-Chlorophenol	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
2-Methylphenol (o-cresol)	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
2-Nitroaniline	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
2-Nitrophenol	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
3-Nitroaniline	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 18	<	7.30E-01	U	<	7.50E-01	U	<	7.50E-01	U	<	7.60E-01	U
4-Bromophenyl-phenylether	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
4-Chloro-3-methylphenol	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
4-Chlorophenyl-phenylether	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
4-Methylphenol (p-cresol)	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
4-Nitroaniline	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
4-Nitrophenol	ND	0 / 18	<	7.30E-01	U	<	7.50E-01	U	<	7.50E-01	U	<	7.60E-01	U
Benzyl Alcohol	ND	0 / 18	<	1.40E+00	U	<	1.50E+00	U	<	1.50E+00	U	<	1.50E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
bis(2-Chloroethyl)ether	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Butylbenzylphthalate	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Carbazole	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Dibenzofuran	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Diethylphthalate	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Dimethylphthalate	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Di-n-butylphthalate	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Di-n-octylphthalate	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Hexachlorobenzene	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Hexachlorobutadiene	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Hexachloroethane	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Isophorone	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
N-Nitrosodimethylamine	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
N-Nitrosodiphenylamine	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
Nitrobenzene	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U

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FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB01-005			CA501-SB01-010			CA501-SB02-004			CA501-SB02-009		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Pentachlorophenol	ND	0 / 18	<	7.30E-01	U	<	7.50E-01	U	<	7.50E-01	U	<	7.60E-01	U
Phenol	ND	0 / 18	<	3.70E-01	U	<	3.80E-01	U	<	3.70E-01	U	<	3.80E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS(mg/kg)														
2-Methylnaphthalene	2.50E-02	7 / 24	2.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	6.50E-03	2 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.20E-03	1 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	3.00E-03	2 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.90E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.50E-03	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.60E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluorene	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.60E-02	5 / 24	4.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	1.10E-02	5 / 24	1.10E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.10E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)														
PCB-1016	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U
PCB-1221	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U
PCB-1232	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U
PCB-1242	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U
PCB-1248	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U
PCB-1254	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U
PCB-1260	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	4.50E+00	2 / 24	3.30E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 24	<	1.10E+00	U	<	1.10E+00	U	<	1.20E+00	U	<	1.20E+00	U
Oil Range Organics	2.20E+01	8 / 24	6.80E+00	2.20E+01	J	<	2.30E+01	U	6.70E+00	2.30E+01	J	<	2.30E+01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB01-005			CA501-SB01-010			CA501-SB02-004			CA501-SB02-009		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)														
Arsenic	5.24E+00	24 / 24	4.45E+00	5.46E-01		3.80E+00	5.27E-01		4.85E+00	5.54E-01		2.77E+00	5.67E-01	
Barium	8.59E+02	24 / 24	1.30E+02	5.46E-01		4.44E+02	5.27E-01		1.09E+02	5.54E-01		2.62E+02	5.67E-01	
Cadmium	3.96E-01	24 / 24	2.63E-01	5.46E-01	J	3.26E-01	5.27E-01	J	3.03E-01	5.54E-01	J	1.78E-01	5.67E-01	J
Chromium	1.76E+01	24 / 24	1.36E+01	5.46E-01		7.94E+00	5.27E-01		1.45E+01	5.54E-01		4.15E+00	5.67E-01	
Lead	2.52E+01	24 / 24	8.43E+00	5.46E-01		5.50E+00	5.27E-01		9.00E+00	5.54E-01		2.21E+00	5.67E-01	
Mercury	ND	0 / 24	<	1.10E-01	U	<	1.14E-01	U	<	1.12E-01	U	<	1.15E-01	U
Selenium	1.51E-01	16 / 24	1.24E-01	5.46E-01	J	<	5.27E-01	U	1.06E-01	5.54E-01	J	<	5.67E-01	U
Silver	7.77E-02	6 / 24	<	5.46E-01	U	<	5.27E-01	U	<	5.54E-01	U	<	5.67E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB03-004			CA501-SB03-010			CA501-SB03-015			CA501-SB04-004		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,1,1,2-Tetrachloroethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,1,1-Trichloroethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,1,2-Trichloroethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,1-Dichloroethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,1-Dichloroethene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,1-Dichloropropene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,2,3-Trichlorobenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,2,3-Trichloropropane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,2,4-Trichlorobenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,2,4-Trimethylbenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,2-Dichlorobenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,2-Dichloroethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,2-Dichloropropane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,3-Dichlorobenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,3-Dichloropropane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
1,4-Dichlorobenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
2,2-Dichloropropane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
2-Butanone (Methyl Ethyl Ketone)	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
2-Chlorotoluene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
2-Hexanone	ND	0 / 24	<	2.10E-02	U	<	2.20E-02	U	<	2.10E-02	U	<	2.20E-02	U
4-Chlorotoluene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
4-Methyl-2-Pentanone	ND	0 / 24	<	2.10E-02	U	<	2.20E-02	U	<	2.10E-02	U	<	2.20E-02	U
Acetone	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Bromobenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Bromochloromethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Bromodichloromethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Bromoform	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Bromomethane	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Carbon Tetrachloride	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB03-004			CA501-SB03-010			CA501-SB03-015			CA501-SB04-004		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chlorobenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Chloroethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Chloroform	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Chloromethane	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
cis-1,2-Dichloroethene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
cis-1,3-Dichloropropene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Dibromochloromethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Dibromomethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Dichlorodifluoromethane	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Ethylbenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Hexachlorobutadiene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Isopropylbenzene (Cumene)	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
n-Butylbenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
n-Propylbenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
sec-Butylbenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Styrene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
t-Butylbenzene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Tetrachloroethene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Toluene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
trans-1,2-Dichloroethene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
trans-1,3-Dichloropropene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Trichloroethene	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Trichlorofluoromethane	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
Vinyl Chloride	ND	0 / 24	<	5.40E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	5.60E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,2,4-Trichlorobenzene	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
1,2-Dichlorobenzene	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
1,3-Dichlorobenzene	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
1,4-Dichlorobenzene	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
2,4,5-Trichlorophenol	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
2,4,6-Trichlorophenol	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB03-004			CA501-SB03-010			CA501-SB03-015			CA501-SB04-004		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2,4-Dichlorophenol	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
2,4-Dimethylphenol	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
2,4-Dinitrophenol	ND	0 / 18	<	7.50E-01	U	<	7.60E-01	U	<	7.30E-01	U	<	7.40E-01	U
2,4-Dinitrotoluene	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
2,6-Dinitrotoluene	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
2-Chloronaphthalene	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
2-Chlorophenol	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
2-Methylphenol (o-cresol)	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
2-Nitroaniline	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
2-Nitrophenol	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
3-Nitroaniline	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 18	<	7.50E-01	U	<	7.60E-01	U	<	7.30E-01	U	<	7.40E-01	U
4-Bromophenyl-phenylether	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
4-Chloro-3-methylphenol	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
4-Chlorophenyl-phenylether	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
4-Methylphenol (p-cresol)	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
4-Nitroaniline	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
4-Nitrophenol	ND	0 / 18	<	7.50E-01	U	<	7.60E-01	U	<	7.30E-01	U	<	7.40E-01	U
Benzyl Alcohol	ND	0 / 18	<	1.50E+00	U	<	1.50E+00	U	<	1.40E+00	U	<	1.50E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
bis(2-Chloroethyl)ether	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Butylbenzylphthalate	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Carbazole	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Dibenzofuran	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Diethylphthalate	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Dimethylphthalate	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Di-n-butylphthalate	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Di-n-octylphthalate	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Hexachlorobenzene	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Hexachlorobutadiene	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Hexachloroethane	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Isophorone	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
N-Nitrosodimethylamine	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
N-Nitrosodiphenylamine	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
Nitrobenzene	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB03-004			CA501-SB03-010			CA501-SB03-015			CA501-SB04-004		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Pentachlorophenol	ND	0 / 18	<	7.50E-01	U	<	7.60E-01	U	<	7.30E-01	U	<	7.40E-01	U
Phenol	ND	0 / 18	<	3.80E-01	U	<	3.80E-01	U	<	3.60E-01	U	<	3.70E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS(mg/kg)														
2-Methylnaphthalene	2.50E-02	7 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	2.10E-02	1.10E-02	
Acenaphthene	6.50E-03	2 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.20E-03	1 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	3.00E-03	2 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.90E-02	3 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.50E-03	3 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.60E-02	3 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluorene	ND	0 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.60E-02	5 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	3.80E-03	1.10E-02	J
Phenanthrene	1.10E-02	5 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	5.20E-03	1.10E-02	J
Pyrene	3.10E-02	3 / 24	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)														
PCB-1016	ND	0 / 24	<	5.70E-02	U	<	5.80E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 24	<	5.70E-02	U	<	5.80E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 24	<	5.70E-02	U	<	5.80E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 24	<	5.70E-02	U	<	5.80E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 24	<	5.70E-02	U	<	5.80E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 24	<	5.70E-02	U	<	5.80E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1260	ND	0 / 24	<	5.70E-02	U	<	5.80E-02	U	<	5.50E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	4.50E+00	2 / 24	<	1.10E+01	U	<	1.20E+01	U	<	1.10E+01	U	4.50E+00	1.10E+01	J
Gasoline Range Organics	ND	0 / 24	<	1.50E+00	U	<	1.20E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	2.20E+01	8 / 24	<	2.30E+01	U	<	2.30E+01	U	<	2.20E+01	U	1.40E+01	2.20E+01	J

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB03-004			CA501-SB03-010			CA501-SB03-015			CA501-SB04-004		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)														
Arsenic	5.24E+00	24 / 24	4.41E+00	5.49E-01		3.57E+00	5.42E-01		1.97E+00	5.09E-01		4.92E+00	5.47E-01	
Barium	8.59E+02	24 / 24	9.41E+01	5.49E-01		7.52E+02	5.42E-01		3.69E+02	5.09E-01		1.11E+02	5.47E-01	
Cadmium	3.96E-01	24 / 24	2.89E-01	5.49E-01	J	2.50E-01	5.42E-01	J	1.89E-01	5.09E-01	J	3.12E-01	5.47E-01	J
Chromium	1.76E+01	24 / 24	1.39E+01	5.49E-01		6.67E+00	5.42E-01		6.13E+00	5.09E-01		1.40E+01	5.47E-01	
Lead	2.52E+01	24 / 24	9.77E+00	5.49E-01		4.09E+00	5.42E-01		4.07E+00	5.09E-01		8.98E+00	5.47E-01	
Mercury	ND	0 / 24	<	1.14E-01	U	<	1.14E-01	U	<	1.09E-01	U	<	1.11E-01	U
Selenium	1.51E-01	16 / 24	1.18E-01	5.49E-01	J	8.22E-02	5.42E-01	J	<	5.09E-01	U	1.43E-01	5.47E-01	J
Silver	7.77E-02	6 / 24	<	5.49E-01	U	<	5.42E-01	U	<	5.09E-01	U	<	5.47E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB04-009			CA501-SB05-005			CA501-SB05-010			CA501-SB06-005		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,1,1,2-Tetrachloroethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,1,1-Trichloroethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,1,2-Trichloroethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,1-Dichloroethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,1-Dichloroethene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,1-Dichloropropene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,2,3-Trichlorobenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,2,3-Trichloropropane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,2,4-Trichlorobenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,2,4-Trimethylbenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 24	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,2-Dichlorobenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,2-Dichloroethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,2-Dichloropropane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,3-Dichlorobenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,3-Dichloropropane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
1,4-Dichlorobenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
2,2-Dichloropropane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
2-Butanone (Methyl Ethyl Ketone)	ND	0 / 24	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
2-Chlorotoluene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
2-Hexanone	ND	0 / 24	<	2.40E-02	U	<	2.10E-02	U	<	2.20E-02	U	<	2.30E-02	U
4-Chlorotoluene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
4-Methyl-2-Pentanone	ND	0 / 24	<	2.40E-02	U	<	2.10E-02	U	<	2.20E-02	U	<	2.30E-02	U
Acetone	ND	0 / 24	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Bromobenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Bromochloromethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Bromodichloromethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Bromoform	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Bromomethane	ND	0 / 24	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Carbon Tetrachloride	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB04-009			CA501-SB05-005			CA501-SB05-010			CA501-SB06-005		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chlorobenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Chloroethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Chloroform	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Chloromethane	ND	0 / 24	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
cis-1,2-Dichloroethene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
cis-1,3-Dichloropropene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Dibromochloromethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Dibromomethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Dichlorodifluoromethane	ND	0 / 24	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Hexachlorobutadiene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Isopropylbenzene (Cumene)	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 24	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 24	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
n-Butylbenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
n-Propylbenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
sec-Butylbenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Styrene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
t-Butylbenzene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Tetrachloroethene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Toluene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
trans-1,2-Dichloroethene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
trans-1,3-Dichloropropene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Trichloroethene	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Trichlorofluoromethane	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
Vinyl Chloride	ND	0 / 24	<	6.10E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.60E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,2,4-Trichlorobenzene	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
1,2-Dichlorobenzene	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
1,3-Dichlorobenzene	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
1,4-Dichlorobenzene	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
2,4,5-Trichlorophenol	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
2,4,6-Trichlorophenol	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB04-009			CA501-SB05-005			CA501-SB05-010			CA501-SB06-005		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2,4-Dichlorophenol	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
2,4-Dimethylphenol	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
2,4-Dinitrophenol	ND	0 / 18	<	7.80E-01	U	<	7.40E-01	U	<	7.40E-01	U			
2,4-Dinitrotoluene	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
2,6-Dinitrotoluene	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
2-Chloronaphthalene	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
2-Chlorophenol	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
2-Methylphenol (o-cresol)	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
2-Nitroaniline	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
2-Nitrophenol	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
3-Nitroaniline	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
4,6-Dinitro-2-methylphenol	ND	0 / 18	<	7.80E-01	U	<	7.40E-01	U	<	7.40E-01	U			
4-Bromophenyl-phenylether	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
4-Chloro-3-methylphenol	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
4-Chlorophenyl-phenylether	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
4-Methylphenol (p-cresol)	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
4-Nitroaniline	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
4-Nitrophenol	ND	0 / 18	<	7.80E-01	U	<	7.40E-01	U	<	7.40E-01	U			
Benzyl Alcohol	ND	0 / 18	<	1.50E+00	U	<	1.50E+00	U	<	1.50E+00	U			
bis(2-Chloroethoxy)methane	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
bis(2-Chloroethyl)ether	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
bis(2-Ethylhexyl)phthalate	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Butylbenzylphthalate	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Carbazole	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Dibenzofuran	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Diethylphthalate	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Dimethylphthalate	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Di-n-butylphthalate	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Di-n-octylphthalate	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Hexachlorobenzene	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Hexachlorobutadiene	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Hexachloroethane	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Isophorone	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
N-Nitrosodimethylamine	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
N-Nitroso-di-n-propylamine	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
N-Nitrosodiphenylamine	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
Nitrobenzene	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB04-009			CA501-SB05-005			CA501-SB05-010			CA501-SB06-005		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Pentachlorophenol	ND	0 / 18	<	7.80E-01	U	<	7.40E-01	U	<	7.40E-01	U			
Phenol	ND	0 / 18	<	3.90E-01	U	<	3.70E-01	U	<	3.70E-01	U			
POLYNUCLEAR AROMATIC HYDROCARBONS(mg/kg)														
2-Methylnaphthalene	2.50E-02	7 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.20E-02	1.20E-02	
Acenaphthene	6.50E-03	2 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	6.50E-03	1.20E-02	J
Acenaphthylene	3.20E-03	1 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.20E-03	1.20E-02	J
Anthracene	3.00E-03	2 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	1.90E-02	3 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	4.50E-03	3 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	2.60E-02	3 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluorene	ND	0 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	2.60E-02	5 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.60E-02	1.20E-02	
Phenanthrene	1.10E-02	5 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Pyrene	3.10E-02	3 / 24	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)														
PCB-1016	ND	0 / 24	<	5.90E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U
PCB-1221	ND	0 / 24	<	5.90E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U
PCB-1232	ND	0 / 24	<	5.90E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U
PCB-1242	ND	0 / 24	<	5.90E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U
PCB-1248	ND	0 / 24	<	5.90E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U
PCB-1254	ND	0 / 24	<	5.90E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U
PCB-1260	ND	0 / 24	<	5.90E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	4.50E+00	2 / 24	<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.20E+01	U
Gasoline Range Organics	ND	0 / 24	<	1.10E+00	U	<	1.20E+00	U	<	1.30E+00	U	<	1.10E+00	U
Oil Range Organics	2.20E+01	8 / 24	<	2.40E+01	U	<	2.20E+01	U	<	2.30E+01	U	6.00E+00	2.30E+01	J

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB04-009			CA501-SB05-005			CA501-SB05-010			CA501-SB06-005		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)														
Arsenic	5.24E+00	24 / 24	2.69E+00	5.44E-01		4.50E+00	5.52E-01		4.07E+00	5.48E-01		5.24E+00	5.43E-01	
Barium	8.59E+02	24 / 24	8.59E+02	5.44E-01		8.44E+01	5.52E-01		6.62E+02	5.48E-01		1.34E+02	5.43E-01	
Cadmium	3.96E-01	24 / 24	2.60E-01	5.44E-01	J	2.67E-01	5.52E-01	J	3.54E-01	5.48E-01	J	3.96E-01	5.43E-01	J
Chromium	1.76E+01	24 / 24	5.60E+00	5.44E-01		1.36E+01	5.52E-01		8.24E+00	5.48E-01		1.76E+01	5.43E-01	
Lead	2.52E+01	24 / 24	3.47E+00	5.44E-01		8.83E+00	5.52E-01		5.55E+00	5.48E-01		1.01E+01	5.43E-01	
Mercury	ND	0 / 24	<	1.17E-01	U	<	1.12E-01	U	<	1.13E-01	U	<	1.14E-01	U
Selenium	1.51E-01	16 / 24	<	5.44E-01	U	1.08E-01	5.52E-01	J	7.37E-02	5.48E-01	J	1.51E-01	5.43E-01	J
Silver	7.77E-02	6 / 24	<	5.44E-01	U	<	5.52E-01	U	<	5.48E-01	U	7.77E-02	5.43E-01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB06-009			CA501-SB07-005			CA501-SB07-010			CA501-SB08-005		
DATE COLLECTED			January 30, 2013			January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,1,1,2-Tetrachloroethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,1,1-Trichloroethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,1,2-Trichloroethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,1-Dichloroethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,1-Dichloroethene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,1-Dichloropropene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,2,3-Trichlorobenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,2,3-Trichloropropane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,2,4-Trichlorobenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,2,4-Trimethylbenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 24	<	1.30E-02	U	<	9.50E-03	U	<	1.10E-02	U	<	1.00E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,2-Dichlorobenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,2-Dichloroethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,2-Dichloropropane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,3-Dichlorobenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,3-Dichloropropane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
1,4-Dichlorobenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
2,2-Dichloropropane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
2-Butanone (Methyl Ethyl Ketone)	ND	0 / 24	<	1.30E-02	U	<	9.50E-03	U	<	1.10E-02	U	<	1.00E-02	U
2-Chlorotoluene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
2-Hexanone	ND	0 / 24	<	2.60E-02	U	<	1.90E-02	U	<	2.20E-02	U	<	2.10E-02	U
4-Chlorotoluene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
4-Methyl-2-Pentanone	ND	0 / 24	<	2.60E-02	U	<	1.90E-02	U	<	2.20E-02	U	<	2.10E-02	U
Acetone	ND	0 / 24	<	1.30E-02	U	<	9.50E-03	U	<	1.10E-02	U	<	1.00E-02	U
Benzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Bromobenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Bromochloromethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Bromodichloromethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Bromoform	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Bromomethane	ND	0 / 24	<	1.30E-02	U	<	9.50E-03	U	<	1.10E-02	U	<	1.00E-02	U
Carbon Disulfide	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Carbon Tetrachloride	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB06-009			CA501-SB07-005			CA501-SB07-010			CA501-SB08-005		
DATE COLLECTED			January 30, 2013			January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chlorobenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Chloroethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Chloroform	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Chloromethane	ND	0 / 24	<	1.30E-02	U	<	9.50E-03	U	<	1.10E-02	U	<	1.00E-02	U
cis-1,2-Dichloroethene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
cis-1,3-Dichloropropene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Dibromochloromethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Dibromomethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Dichlorodifluoromethane	ND	0 / 24	<	1.30E-02	U	<	9.50E-03	U	<	1.10E-02	U	<	1.00E-02	U
Ethylbenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Hexachlorobutadiene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Isopropylbenzene (Cumene)	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 24	<	1.30E-02	U	<	9.50E-03	U	<	1.10E-02	U	<	1.00E-02	U
Methylene Chloride	ND	0 / 24	<	1.30E-02	U	<	9.50E-03	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
n-Butylbenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
n-Propylbenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
sec-Butylbenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Styrene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
t-Butylbenzene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Tetrachloroethene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Toluene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
trans-1,2-Dichloroethene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
trans-1,3-Dichloropropene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Trichloroethene	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Trichlorofluoromethane	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
Vinyl Chloride	ND	0 / 24	<	6.50E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,2,4-Trichlorobenzene	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
1,2-Dichlorobenzene	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
1,3-Dichlorobenzene	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
1,4-Dichlorobenzene	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
2,4,5-Trichlorophenol	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
2,4,6-Trichlorophenol	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB06-009			CA501-SB07-005			CA501-SB07-010			CA501-SB08-005		
DATE COLLECTED			January 30, 2013			January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2,4-Dichlorophenol	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
2,4-Dimethylphenol	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
2,4-Dinitrophenol	ND	0 / 18				<	7.50E-01	U	<	7.40E-01	U			
2,4-Dinitrotoluene	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
2,6-Dinitrotoluene	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
2-Chloronaphthalene	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
2-Chlorophenol	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
2-Methylphenol (o-cresol)	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
2-Nitroaniline	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
2-Nitrophenol	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
3-Nitroaniline	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
4,6-Dinitro-2-methylphenol	ND	0 / 18				<	7.50E-01	U	<	7.40E-01	U			
4-Bromophenyl-phenylether	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
4-Chloro-3-methylphenol	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
4-Chlorophenyl-phenylether	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
4-Methylphenol (p-cresol)	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
4-Nitroaniline	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
4-Nitrophenol	ND	0 / 18				<	7.50E-01	U	<	7.40E-01	U			
Benzyl Alcohol	ND	0 / 18				<	1.50E+00	U	<	1.50E+00	U			
bis(2-Chloroethoxy)methane	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
bis(2-Chloroethyl)ether	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
bis(2-Ethylhexyl)phthalate	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Butylbenzylphthalate	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Carbazole	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Dibenzofuran	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Diethylphthalate	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Dimethylphthalate	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Di-n-butylphthalate	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Di-n-octylphthalate	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Hexachlorobenzene	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Hexachlorobutadiene	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Hexachloroethane	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Isophorone	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
N-Nitrosodimethylamine	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
N-Nitroso-di-n-propylamine	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
N-Nitrosodiphenylamine	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
Nitrobenzene	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB06-009			CA501-SB07-005			CA501-SB07-010			CA501-SB08-005		
DATE COLLECTED			January 30, 2013			January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Pentachlorophenol	ND	0 / 18				<	7.50E-01	U	<	7.40E-01	U			
Phenol	ND	0 / 18				<	3.70E-01	U	<	3.70E-01	U			
POLYNUCLEAR AROMATIC HYDROCARBONS(mg/kg)														
2-Methylnaphthalene	2.50E-02	7 / 24	9.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	6.50E-03	2 / 24	3.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.20E-03	1 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	3.00E-03	2 / 24	3.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	1.80E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	2.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	2.80E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	7.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.90E-02	3 / 24	1.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.50E-03	3 / 24	3.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.60E-02	3 / 24	2.60E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluorene	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	1.10E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.60E-02	5 / 24	1.30E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	1.10E-02	5 / 24	5.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.10E-02	3 / 24	3.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)														
PCB-1016	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1260	ND	0 / 24	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	4.50E+00	2 / 24	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 24	<	1.10E+00	U	<	1.10E+00	U	<	1.20E+00	U	<	9.90E-01	U
Oil Range Organics	2.20E+01	8 / 24	1.90E+01	2.30E+01	J	1.40E+01	2.30E+01	J	<	2.20E+01	U	<	2.20E+01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB06-009			CA501-SB07-005			CA501-SB07-010			CA501-SB08-005		
DATE COLLECTED			January 30, 2013			January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)														
Arsenic	5.24E+00	24 / 24	3.62E+00	5.43E-01		4.50E+00	5.55E-01		3.98E+00	5.59E-01		4.67E+00	5.34E-01	
Barium	8.59E+02	24 / 24	2.88E+02	5.43E-01		1.17E+02	5.55E-01		6.02E+02	5.59E-01		9.45E+01	5.34E-01	
Cadmium	3.96E-01	24 / 24	2.75E-01	5.43E-01	J	2.95E-01	5.55E-01	J	3.66E-01	5.59E-01	J	2.95E-01	5.34E-01	J
Chromium	1.76E+01	24 / 24	1.02E+01	5.43E-01		1.35E+01	5.55E-01		9.20E+00	5.59E-01		1.52E+01	5.34E-01	
Lead	2.52E+01	24 / 24	5.36E+00	5.43E-01		2.52E+01	5.55E-01		5.65E+00	5.59E-01		9.69E+00	5.34E-01	
Mercury	ND	0 / 24	<	1.10E-01	U	<	1.13E-01	U	<	1.10E-01	U	<	1.10E-01	U
Selenium	1.51E-01	16 / 24	8.11E-02	5.43E-01	J	1.34E-01	5.55E-01	J	<	5.59E-01	U	1.33E-01	5.34E-01	J
Silver	7.77E-02	6 / 24	<	5.43E-01	U	5.74E-02	5.55E-01	J	<	5.59E-01	U	5.58E-02	5.34E-01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB08-010			CA501-SB09-004			CA501-SB09-010			CA501-SB09-015		
DATE COLLECTED			January 30, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,1,1,2-Tetrachloroethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,1,1-Trichloroethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,1,2-Trichloroethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,1-Dichloroethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,1-Dichloroethene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,1-Dichloropropene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,2,3-Trichlorobenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,2,3-Trichloropropane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,2,4-Trichlorobenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,2,4-Trimethylbenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 24	<	1.60E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	9.90E-03	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,2-Dichlorobenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,2-Dichloroethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,2-Dichloropropane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,3-Dichlorobenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,3-Dichloropropane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
1,4-Dichlorobenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
2,2-Dichloropropane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
2-Butanone (Methyl Ethyl Ketone)	ND	0 / 24	<	1.60E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	9.90E-03	U
2-Chlorotoluene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
2-Hexanone	ND	0 / 24	<	3.10E-02	U	<	2.50E-02	U	<	2.30E-02	U	<	2.00E-02	U
4-Chlorotoluene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
4-Methyl-2-Pentanone	ND	0 / 24	<	3.10E-02	U	<	2.50E-02	U	<	2.30E-02	U	<	2.00E-02	U
Acetone	ND	0 / 24	<	1.60E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	9.90E-03	U
Benzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Bromobenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Bromochloromethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Bromodichloromethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Bromoform	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Bromomethane	ND	0 / 24	<	1.60E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	9.90E-03	U
Carbon Disulfide	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Carbon Tetrachloride	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB08-010			CA501-SB09-004			CA501-SB09-010			CA501-SB09-015		
DATE COLLECTED			January 30, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chlorobenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Chloroethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Chloroform	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Chloromethane	ND	0 / 24	<	1.60E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	9.90E-03	U
cis-1,2-Dichloroethene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
cis-1,3-Dichloropropene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Dibromochloromethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Dibromomethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Dichlorodifluoromethane	ND	0 / 24	<	1.60E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	9.90E-03	U
Ethylbenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Hexachlorobutadiene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Isopropylbenzene (Cumene)	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 24	<	1.60E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	9.90E-03	U
Methylene Chloride	ND	0 / 24	<	1.60E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	9.90E-03	U
Naphthalene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
n-Butylbenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
n-Propylbenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
sec-Butylbenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Styrene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
t-Butylbenzene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Tetrachloroethene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Toluene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
trans-1,2-Dichloroethene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
trans-1,3-Dichloropropene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Trichloroethene	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Trichlorofluoromethane	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
Vinyl Chloride	ND	0 / 24	<	7.80E-03	U	<	6.30E-03	U	<	5.70E-03	U	<	4.90E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,2,4-Trichlorobenzene	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
1,2-Dichlorobenzene	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
1,3-Dichlorobenzene	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
1,4-Dichlorobenzene	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4,5-Trichlorophenol	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4,6-Trichlorophenol	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB08-010			CA501-SB09-004			CA501-SB09-010			CA501-SB09-015		
DATE COLLECTED			January 30, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2,4-Dichlorophenol	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4-Dimethylphenol	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4-Dinitrophenol	ND	0 / 18				<	7.40E-01	U	<	7.30E-01	U	<	7.20E-01	U
2,4-Dinitrotoluene	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,6-Dinitrotoluene	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Chloronaphthalene	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Chlorophenol	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Methylphenol (o-cresol)	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Nitroaniline	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Nitrophenol	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
3-Nitroaniline	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 18				<	7.40E-01	U	<	7.30E-01	U	<	7.20E-01	U
4-Bromophenyl-phenylether	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Chloro-3-methylphenol	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Chlorophenyl-phenylether	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Methylphenol (p-cresol)	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Nitroaniline	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Nitrophenol	ND	0 / 18				<	7.40E-01	U	<	7.30E-01	U	<	7.20E-01	U
Benzyl Alcohol	ND	0 / 18				<	1.50E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
bis(2-Chloroethyl)ether	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Butylbenzylphthalate	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Carbazole	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dibenzofuran	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Diethylphthalate	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dimethylphthalate	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-butylphthalate	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-octylphthalate	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Hexachlorobenzene	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Hexachlorobutadiene	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Hexachloroethane	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Isophorone	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
N-Nitrosodimethylamine	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
N-Nitrosodiphenylamine	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
Nitrobenzene	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB08-010			CA501-SB09-004			CA501-SB09-010			CA501-SB09-015		
DATE COLLECTED			January 30, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Pentachlorophenol	ND	0 / 18				<	7.40E-01	U	<	7.30E-01	U	<	7.20E-01	U
Phenol	ND	0 / 18				<	3.70E-01	U	<	3.60E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS(mg/kg)														
2-Methylnaphthalene	2.50E-02	7 / 24	3.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	6.50E-03	2 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.20E-03	1 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	3.00E-03	2 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.20E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.80E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	4.00E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.10E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.90E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.50E-03	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.60E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluorene	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.60E-02	5 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	1.10E-02	5 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.10E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)														
PCB-1016	ND	0 / 24	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 24	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 24	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 24	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 24	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 24	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1260	ND	0 / 24	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	4.50E+00	2 / 24	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 24	<	1.10E+00	U	<	1.20E+00	U	<	1.10E+00	U	<	1.00E+00	U
Oil Range Organics	2.20E+01	8 / 24	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB08-010			CA501-SB09-004			CA501-SB09-010			CA501-SB09-015		
DATE COLLECTED			January 30, 2013			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)														
Arsenic	5.24E+00	24 / 24	3.04E+00	5.30E-01		4.62E+00	5.48E-01		3.51E+00	5.31E-01		2.35E+00	5.32E-01	
Barium	8.59E+02	24 / 24	4.25E+02	5.30E-01		8.80E+01	5.48E-01		6.39E+02	5.31E-01		1.10E+02	5.32E-01	
Cadmium	3.96E-01	24 / 24	2.48E-01	5.30E-01	J	3.16E-01	5.48E-01	J	2.80E-01	5.31E-01	J	2.72E-01	5.32E-01	J
Chromium	1.76E+01	24 / 24	7.58E+00	5.30E-01		1.52E+01	5.48E-01		8.40E+00	5.31E-01		6.93E+00	5.32E-01	
Lead	2.52E+01	24 / 24	4.16E+00	5.30E-01		9.16E+00	5.48E-01		4.98E+00	5.31E-01		4.68E+00	5.32E-01	
Mercury	ND	0 / 24	<	1.10E-01	U	<	1.10E-01	U	<	1.09E-01	U	<	1.10E-01	U
Selenium	1.51E-01	16 / 24	6.19E-02	5.30E-01	J	1.28E-01	5.48E-01	J	<	5.31E-01	U	<	5.32E-01	U
Silver	7.77E-02	6 / 24	<	5.30E-01	U	6.07E-02	5.48E-01	J	<	5.31E-01	U	<	5.32E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB10-005			CA501-SB10-010			CA501-SB11-005			CA501-SB11-009		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,1,1,2-Tetrachloroethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,1,1-Trichloroethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,1,2-Trichloroethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,1-Dichloroethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,1-Dichloroethene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,1-Dichloropropene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,2,3-Trichlorobenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,2,3-Trichloropropane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,2,4-Trichlorobenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,2,4-Trimethylbenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 24	<	1.20E-02	U	<	9.80E-03	U	<	1.10E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,2-Dichlorobenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,2-Dichloroethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,2-Dichloropropane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,3-Dichlorobenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,3-Dichloropropane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
1,4-Dichlorobenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
2,2-Dichloropropane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
2-Butanone (Methyl Ethyl Ketone)	ND	0 / 24	<	1.20E-02	U	<	9.80E-03	U	<	1.10E-02	U	<	1.10E-02	U
2-Chlorotoluene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
2-Hexanone	ND	0 / 24	<	2.30E-02	U	<	2.00E-02	U	<	2.20E-02	U	<	2.20E-02	U
4-Chlorotoluene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
4-Methyl-2-Pentanone	ND	0 / 24	<	2.30E-02	U	<	2.00E-02	U	<	2.20E-02	U	<	2.20E-02	U
Acetone	ND	0 / 24	<	1.20E-02	U	<	9.80E-03	U	<	1.10E-02	U	<	1.10E-02	U
Benzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Bromobenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Bromochloromethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Bromodichloromethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Bromoform	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Bromomethane	ND	0 / 24	<	1.20E-02	U	<	9.80E-03	U	<	1.10E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Carbon Tetrachloride	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB10-005			CA501-SB10-010			CA501-SB11-005			CA501-SB11-009		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chlorobenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Chloroethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Chloroform	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Chloromethane	ND	0 / 24	<	1.20E-02	U	<	9.80E-03	U	<	1.10E-02	U	<	1.10E-02	U
cis-1,2-Dichloroethene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
cis-1,3-Dichloropropene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Dibromochloromethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Dibromomethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Dichlorodifluoromethane	ND	0 / 24	<	1.20E-02	U	<	9.80E-03	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Hexachlorobutadiene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Isopropylbenzene (Cumene)	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 24	<	1.20E-02	U	<	9.80E-03	U	<	1.10E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 24	<	1.20E-02	U	<	9.80E-03	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
n-Butylbenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
n-Propylbenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
sec-Butylbenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Styrene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
t-Butylbenzene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Tetrachloroethene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Toluene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
trans-1,2-Dichloroethene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
trans-1,3-Dichloropropene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Trichloroethene	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Trichlorofluoromethane	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
Vinyl Chloride	ND	0 / 24	<	5.80E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.40E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)														
1,2,4-Trichlorobenzene	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
1,2-Dichlorobenzene	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
1,3-Dichlorobenzene	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
1,4-Dichlorobenzene	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
2,4,5-Trichlorophenol	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
2,4,6-Trichlorophenol	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB10-005			CA501-SB10-010			CA501-SB11-005			CA501-SB11-009		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2,4-Dichlorophenol	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
2,4-Dimethylphenol	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
2,4-Dinitrophenol	ND	0 / 18	<	7.30E-01	U	<	7.40E-01	U						
2,4-Dinitrotoluene	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
2,6-Dinitrotoluene	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
2-Chloronaphthalene	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
2-Chlorophenol	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
2-Methylphenol (o-cresol)	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
2-Nitroaniline	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
2-Nitrophenol	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
3-Nitroaniline	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
4,6-Dinitro-2-methylphenol	ND	0 / 18	<	7.30E-01	U	<	7.40E-01	U						
4-Bromophenyl-phenylether	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
4-Chloro-3-methylphenol	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
4-Chlorophenyl-phenylether	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
4-Methylphenol (p-cresol)	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
4-Nitroaniline	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
4-Nitrophenol	ND	0 / 18	<	7.30E-01	U	<	7.40E-01	U						
Benzyl Alcohol	ND	0 / 18	<	1.40E+00	U	<	1.50E+00	U						
bis(2-Chloroethoxy)methane	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
bis(2-Chloroethyl)ether	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
bis(2-Ethylhexyl)phthalate	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Butylbenzylphthalate	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Carbazole	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Dibenzofuran	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Diethylphthalate	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Dimethylphthalate	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Di-n-butylphthalate	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Di-n-octylphthalate	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Hexachlorobenzene	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Hexachlorobutadiene	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Hexachloroethane	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Isophorone	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
N-Nitrosodimethylamine	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
N-Nitroso-di-n-propylamine	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
N-Nitrosodiphenylamine	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
Nitrobenzene	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB10-005			CA501-SB10-010			CA501-SB11-005			CA501-SB11-009		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Pentachlorophenol	ND	0 / 18	<	7.30E-01	U	<	7.40E-01	U						
Phenol	ND	0 / 18	<	3.70E-01	U	<	3.70E-01	U						
POLYNUCLEAR AROMATIC HYDROCARBONS(mg/kg)														
2-Methylnaphthalene	2.50E-02	7 / 24	<	1.10E-02	U	2.90E-03	1.10E-02	J	<	1.10E-02	U	4.90E-03	1.10E-02	J
Acenaphthene	6.50E-03	2 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.20E-03	1 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	3.00E-03	2 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.00E-03	1.10E-02	J
Benzo(a)anthracene	1.80E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	8.40E-03	1.10E-02	J	1.70E-02	1.10E-02	
Benzo(a)pyrene	2.20E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	1.40E-02	1.10E-02		2.20E-02	1.10E-02	
Benzo(b)fluoranthene	2.80E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	1.80E-02	1.10E-02		2.60E-02	1.10E-02	
Benzo(g,h,i)perylene	4.00E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	4.00E-02	1.10E-02		1.70E-02	1.10E-02	
Benzo(k)fluoranthene	1.10E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	5.30E-03	1.10E-02	J	1.10E-02	1.10E-02	
Chrysene	1.90E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	5.40E-03	1.10E-02	J	1.90E-02	1.10E-02	
Dibenz(a,h)anthracene	4.50E-03	3 / 24	<	1.10E-02	U	<	1.10E-02	U	4.50E-03	1.10E-02	J	3.70E-03	1.10E-02	J
Fluoranthene	2.60E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	1.00E-02	1.10E-02	J	2.40E-02	1.10E-02	
Fluorene	ND	0 / 24	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.80E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	1.80E-02	1.10E-02		1.30E-02	1.10E-02	
Naphthalene	2.60E-02	5 / 24	<	1.10E-02	U	<	1.10E-02	U	4.20E-03	1.10E-02	J	<	1.10E-02	U
Phenanthrene	1.10E-02	5 / 24	<	1.10E-02	U	<	1.10E-02	U	3.50E-03	1.10E-02	J	8.10E-03	1.10E-02	J
Pyrene	3.10E-02	3 / 24	<	1.10E-02	U	<	1.10E-02	U	9.40E-03	1.10E-02	J	2.70E-02	1.10E-02	
POLYCHLORINATED BIPHENYLS (mg/kg)														
PCB-1016	ND	0 / 24	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 24	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 24	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 24	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 24	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 24	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1260	ND	0 / 24	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	4.50E+00	2 / 24	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 24	<	1.10E+00	U	<	1.00E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	2.20E+01	8 / 24	<	2.20E+01	U	<	2.20E+01	U	1.80E+01	2.30E+01	J	2.20E+01	2.20E+01	J

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER AGE DISPATCH FACILITY SPILLS (SS-CA501)

FIELD ID			CA501-SB10-005			CA501-SB10-010			CA501-SB11-005			CA501-SB11-009		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
METALS (mg/kg)														
Arsenic	5.24E+00	24 / 24	5.10E+00	5.41E-01		3.48E+00	5.50E-01		4.93E+00	5.59E-01		2.67E+00	5.38E-01	
Barium	8.59E+02	24 / 24	1.31E+02	5.41E-01		4.43E+02	5.50E-01		1.48E+02	5.59E-01		7.31E+02	5.38E-01	
Cadmium	3.96E-01	24 / 24	3.09E-01	5.41E-01	J	3.21E-01	5.50E-01	J	2.80E-01	5.59E-01	J	2.67E-01	5.38E-01	J
Chromium	1.76E+01	24 / 24	1.43E+01	5.41E-01		7.66E+00	5.50E-01		1.48E+01	5.59E-01		5.75E+00	5.38E-01	
Lead	2.52E+01	24 / 24	8.90E+00	5.41E-01		4.82E+00	5.50E-01		9.14E+00	5.59E-01		3.15E+00	5.38E-01	
Mercury	ND	0 / 24	<	1.11E-01	U	<	1.11E-01	U	<	1.13E-01	U	<	1.10E-01	U
Selenium	1.51E-01	16 / 24	1.43E-01	5.41E-01	J	<	5.50E-01	U	1.15E-01	5.59E-01	J	7.21E-02	5.38E-01	J
Silver	7.77E-02	6 / 24	6.64E-02	5.41E-01	J	<	5.50E-01	U	5.67E-02	5.59E-01	J	<	5.38E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB01-004			CA502-SB01-010			CA502-SB01-015		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	4.80E-03	U	<	4.60E-03	U	<	5.60E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB01-004			CA502-SB01-010			CA502-SB01-015		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	4.80E-03	U	<	4.60E-03	U	<	5.60E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	9.70E-03	U	<	9.10E-03	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	4.80E-03	U	3.90E-03	4.60E-03	J	<	5.60E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	4.80E-03	U	<	4.60E-03	U	<	5.60E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	4.80E-03	U	<	4.60E-03	U	<	5.60E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB01-004			CA502-SB01-010			CA502-SB01-015		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	1.70E-02	2.20E-02	J
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	7.10E-03	2.20E-02	J
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	5.30E-03	1.10E-02	J	1.10E-02	2.20E-02	J
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	3.20E-03	1.10E-02	J	7.60E-03	2.20E-02	J
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB01-004			CA502-SB01-010			CA502-SB01-015		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	2.20E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	2.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	2.20E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	2.20E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	3.70E+00	1.10E+01	J	5.30E+00	1.10E+01	J
Gasoline Range Organics	1.40E+00	2 / 74	<	9.30E-01	U	<	9.10E-01	U	<	1.20E+00	U
Oil Range Organics	1.20E+02	22 / 74	1.80E+01	2.20E+01	J	1.20E+01	2.20E+01	J	4.10E+01	2.20E+01	
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	8.57E+00	5.36E-01		9.30E+00	5.57E-01		6.52E+00	5.46E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB01-020			CA502-SB01-025			CA502-SB01-030		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	6.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB01-020			CA502-SB01-025			CA502-SB01-030		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	6.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.40E-02	U	<	1.20E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	6.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	6.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	6.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB01-020			CA502-SB01-025			CA502-SB01-030		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB01-020			CA502-SB01-025			CA502-SB01-030		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.30E+00	U	<	1.20E+00	U	<	1.20E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.30E+01	U	<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	2.17E+00	5.72E-01		2.87E+00	5.54E-01		2.50E+00	5.17E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB02-005			CA502-SB02-010			CA502-SB02-015		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	4.80E-03	U	<	5.20E-03	U	<	5.10E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB02-005			CA502-SB02-010			CA502-SB02-015		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	4.80E-03	U	<	5.20E-03	U	<	5.10E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	9.60E-03	U	<	1.00E-02	U	<	1.00E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	4.80E-03	U	<	5.20E-03	U	<	5.10E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	4.80E-03	U	<	5.20E-03	U	<	5.10E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	4.80E-03	U	<	5.20E-03	U	<	5.10E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB02-005			CA502-SB02-010			CA502-SB02-015		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	3.00E-03	1.10E-02	J
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB02-005			CA502-SB02-010			CA502-SB02-015		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	9.70E-01	U	<	1.00E+00	U	<	1.00E+00	U
Oil Range Organics	1.20E+02	22 / 74	2.80E+01	2.30E+01		<	2.30E+01	U	<	2.10E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	5.41E+00	5.52E-01		3.89E+00	5.59E-01		2.22E+00	5.26E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB02-020			CA502-SB02-025			CA502-SB02-030		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	6.90E-03	U	<	5.40E-03	U	<	5.50E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB02-020			CA502-SB02-025			CA502-SB02-030		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	6.90E-03	U	<	5.40E-03	U	<	5.50E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.40E-02	U	<	1.10E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	6.90E-03	U	<	5.40E-03	U	<	5.50E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	6.90E-03	U	<	5.40E-03	U	<	5.50E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	6.90E-03	U	<	5.40E-03	U	<	5.50E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB02-020			CA502-SB02-025			CA502-SB02-030		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	3.80E-03	1.10E-02	J	3.70E-03	1.10E-02	J	<	1.10E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	3.20E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB02-020			CA502-SB02-025			CA502-SB02-030		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	9.50E-01	U	<	1.20E+00	U	<	1.10E+00	U
Oil Range Organics	1.20E+02	22 / 74	2.00E+01	2.20E+01	J	2.10E+01	2.30E+01	J	<	2.20E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	3.66E+00	5.37E-01		2.63E+00	5.38E-01		4.28E+00	5.34E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB03-005			CA502-SB03-010			CA502-SB03-015		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.30E-03	U	<	6.20E-03	U	<	5.10E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB03-005			CA502-SB03-010			CA502-SB03-015		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.30E-03	U	<	6.20E-03	U	<	5.10E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.00E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.30E-03	U	<	6.20E-03	U	<	5.10E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.30E-03	U	<	6.20E-03	U	<	5.10E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.30E-03	U	<	6.20E-03	U	<	5.10E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB03-005			CA502-SB03-010			CA502-SB03-015		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB03-005			CA502-SB03-010			CA502-SB03-015		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.20E+01	U	<	1.20E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	9.50E-01	U	<	1.20E+00	U	<	1.10E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.30E+01	U	<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	5.59E+00	5.68E-01		2.66E+00	5.40E-01		5.64E+00	5.50E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB03-020			CA502-SB03-025			CA502-SB03-030		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB03-020			CA502-SB03-025			CA502-SB03-030		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	8.90E-03	U	<	1.20E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB03-020			CA502-SB03-025			CA502-SB03-030		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB03-020			CA502-SB03-025			CA502-SB03-030		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.00E+00	U	<	1.10E+00	U	<	1.20E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	6.88E+00	5.58E-01		2.20E+00	5.65E-01		2.02E+00	5.11E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-005			CA502-SB04-008			CA502-SB04-010		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	4.50E-03	U	<	4.90E-03	U	<	4.60E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-005			CA502-SB04-008			CA502-SB04-010		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	4.50E-03	U	<	4.90E-03	U	<	4.60E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	8.90E-03	U	<	9.70E-03	U	<	9.30E-03	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	4.50E-03	U	<	4.90E-03	U	2.90E-02	4.60E-03	
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	4.50E-03	U	<	4.90E-03	U	<	4.60E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	4.50E-03	U	<	4.90E-03	U	<	4.60E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-005			CA502-SB04-008			CA502-SB04-010		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	3.70E-03	1.10E-02	J	5.20E-02	1.10E-02	
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	7.10E-03	1.10E-02	J	4.20E-02	1.10E-02		2.90E-02	1.10E-02	
Benzo(a)pyrene	2.50E-02	6 / 74	9.70E-03	1.10E-02	J	2.50E-02	1.10E-02		2.20E-02	1.10E-02	
Benzo(b)fluoranthene	3.70E-02	7 / 74	9.50E-03	1.10E-02	J	3.70E-02	1.10E-02		2.50E-02	1.10E-02	
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-005			CA502-SB04-008			CA502-SB04-010		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	5.20E-03	1.10E-02	J	1.00E-02	1.10E-02	J	1.00E-02	1.10E-02	J
Chrysene	2.90E-02	3 / 74	5.40E-03	1.10E-02	J	2.90E-02	1.10E-02		2.80E-02	1.10E-02	
Dibenz(a,h)anthracene	7.50E-03	3 / 74	7.50E-03	1.10E-02	J	5.70E-03	1.10E-02	J	6.00E-03	1.10E-02	J
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	9.40E-03	1.10E-02	J	9.50E-03	1.10E-02	J	1.20E-02	1.10E-02	
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	1.20E+01	1.10E+01		2.10E+01	1.10E+01	
Gasoline Range Organics	1.40E+00	2 / 74	9.10E-01	8.80E-01		<	1.00E+00	U	1.40E+00	9.40E-01	
Oil Range Organics	1.20E+02	22 / 74	1.80E+01	2.20E+01	J	4.00E+01	2.30E+01		2.50E+01	2.20E+01	
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	1.00E+01	5.51E-01		9.23E+00	5.37E-01		1.09E+01	5.46E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-015			CA502-SB04-020			CA502-SB04-025		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.10E-03	U	<	6.30E-03	U	<	7.30E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-015			CA502-SB04-020			CA502-SB04-025		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.10E-03	U	<	6.30E-03	U	<	7.30E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.00E-02	U	<	1.30E-02	U	<	1.50E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.10E-03	U	<	6.30E-03	U	<	7.30E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.10E-03	U	<	6.30E-03	U	<	7.30E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.10E-03	U	<	6.30E-03	U	<	7.30E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-015			CA502-SB04-020			CA502-SB04-025		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	5.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	2.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-015			CA502-SB04-020			CA502-SB04-025		
DATE COLLECTED			January 28, 2013			January 28, 2013			January 28, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.00E+00	U	<	1.10E+00	U	<	1.30E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	5.30E+00	5.33E-01		5.85E+00	5.47E-01		3.38E+00	5.45E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-030			CA502-SB05-005			CA502-SB05-010		
DATE COLLECTED			January 28, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	4.40E-03	U	<	4.90E-03	U	<	4.60E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-030			CA502-SB05-005			CA502-SB05-010		
DATE COLLECTED			January 28, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	4.40E-03	U	<	4.90E-03	U	<	4.60E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	8.80E-03	U	<	9.80E-03	U	<	9.20E-03	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	4.40E-03	U	<	4.90E-03	U	<	4.60E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	4.40E-03	U	<	4.90E-03	U	<	4.60E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	4.40E-03	U	<	4.90E-03	U	<	4.60E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-030			CA502-SB05-005			CA502-SB05-010		
DATE COLLECTED			January 28, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB04-030			CA502-SB05-005			CA502-SB05-010		
DATE COLLECTED			January 28, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	2.40E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	5.00E+00	1.20E+01	J	<	1.20E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	9.20E-01	U	<	1.10E+00	U	<	1.00E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.10E+01	U	6.10E+01	2.40E+01		1.80E+01	2.40E+01	J
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	2.03E+00	5.01E-01		1.32E+02	5.75E-01		6.32E+01	5.73E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB05-015			CA502-SB05-020			CA502-SB05-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	7.20E-03	U	<	7.30E-03	U	<	4.90E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB05-015			CA502-SB05-020			CA502-SB05-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	7.20E-03	U	<	7.30E-03	U	<	4.90E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.40E-02	U	<	1.50E-02	U	<	9.80E-03	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	7.20E-03	U	<	7.30E-03	U	<	4.90E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	7.20E-03	U	<	7.30E-03	U	<	4.90E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	7.20E-03	U	<	7.30E-03	U	<	4.90E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB05-015			CA502-SB05-020			CA502-SB05-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB05-015			CA502-SB05-020			CA502-SB05-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.20E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.30E+00	U	<	1.60E+00	U	<	1.00E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	2.80E+01	5.06E-01		1.81E+01	5.76E-01		1.55E+01	5.53E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB05-030			CA502-SB06-005			CA502-SB06-010		
DATE COLLECTED			February 1, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.50E-03	U	<	5.00E-03	U	<	4.80E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB05-030			CA502-SB06-005			CA502-SB06-010		
DATE COLLECTED			February 1, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.50E-03	U	<	5.00E-03	U	<	4.80E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.10E-02	U	<	1.00E-02	U	<	9.60E-03	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.50E-03	U	<	5.00E-03	U	<	4.80E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.50E-03	U	<	5.00E-03	U	<	4.80E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.50E-03	U	<	5.00E-03	U	<	4.80E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB05-030			CA502-SB06-005			CA502-SB06-010		
DATE COLLECTED			February 1, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB05-030			CA502-SB06-005			CA502-SB06-010		
DATE COLLECTED			February 1, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.20E+01	U	<	1.20E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.10E+00	U	<	1.10E+00	U	<	9.60E-01	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	6.70E+00	2.40E+01	J	<	2.30E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	1.57E+01	5.54E-01		6.69E+00	5.86E-01		3.32E+00	5.71E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB06-015			CA502-SB06-020			CA502-SB06-025		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	6.70E-03	U	<	6.50E-03	U	<	5.70E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB06-015			CA502-SB06-020			CA502-SB06-025		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	6.70E-03	U	<	6.50E-03	U	<	5.70E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.30E-02	U	<	1.30E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	6.70E-03	U	<	6.50E-03	U	<	5.70E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	6.70E-03	U	<	6.50E-03	U	<	5.70E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	6.70E-03	U	<	6.50E-03	U	<	5.70E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB06-015			CA502-SB06-020			CA502-SB06-025		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB06-015			CA502-SB06-020			CA502-SB06-025		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.10E+01	U	3.10E+00	1.10E+01	J
Gasoline Range Organics	1.40E+00	2 / 74	<	1.10E+00	U	<	1.30E+00	U	<	1.20E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	<	2.30E+01	U	1.10E+01	2.30E+01	J
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	1.55E+00	5.30E-01		2.35E+00	5.62E-01		2.66E+00	5.57E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB06-030			CA502-SB07-005			CA502-SB07-010		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.10E-03	U	<	4.80E-03	U	<	5.10E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB06-030			CA502-SB07-005			CA502-SB07-010		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.10E-03	U	<	4.80E-03	U	<	5.10E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.00E-02	U	<	9.60E-03	U	<	1.00E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.10E-03	U	<	4.80E-03	U	<	5.10E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.10E-03	U	<	4.80E-03	U	<	5.10E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.10E-03	U	<	4.80E-03	U	<	5.10E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB06-030			CA502-SB07-005			CA502-SB07-010		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB06-030			CA502-SB07-005			CA502-SB07-010		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	3.40E+00	1.10E+01	J	4.70E+00	1.10E+01	J	3.10E+00	1.20E+01	J
Gasoline Range Organics	1.40E+00	2 / 74	<	1.10E+00	U	<	9.70E-01	U	<	1.00E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	2.90E+01	2.20E+01		<	2.30E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	1.95E+00	4.96E-01		3.11E+01	5.46E-01	J	4.57E+00	5.54E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB07-015			CA502-SB07-020			CA502-SB07-025		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.50E-03	U	<	6.30E-03	U	<	5.80E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB07-015			CA502-SB07-020			CA502-SB07-025		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.50E-03	U	<	6.30E-03	U	<	5.80E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.10E-02	U	<	1.30E-02	U	<	1.20E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.50E-03	U	<	6.30E-03	U	<	5.80E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.50E-03	U	<	6.30E-03	U	<	5.80E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.50E-03	U	<	6.30E-03	U	<	5.80E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB07-015			CA502-SB07-020			CA502-SB07-025		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB07-015			CA502-SB07-020			CA502-SB07-025		
DATE COLLECTED			January 31, 2013			January 31, 2013			January 31, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	3.50E+00	1.10E+01	J	3.50E+00	1.10E+01	J	3.30E+00	1.20E+01	J
Gasoline Range Organics	1.40E+00	2 / 74	<	1.20E+00	U	<	1.20E+00	U	<	1.30E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.30E+01	U	7.80E+00	2.30E+01	J	<	2.40E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	4.74E+00	5.42E-01		3.23E+00	5.47E-01		2.64E+00	5.73E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB07-030			CA502-SB08-005			CA502-SB08-010		
DATE COLLECTED			January 31, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.50E-03	U	<	5.20E-03	U	<	5.50E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB07-030			CA502-SB08-005			CA502-SB08-010		
DATE COLLECTED			January 31, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.50E-03	U	<	5.20E-03	U	<	5.50E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.50E-03	U	<	5.20E-03	U	<	5.50E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.50E-03	U	<	5.20E-03	U	<	5.50E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.50E-03	U	<	5.20E-03	U	<	5.50E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB07-030			CA502-SB08-005			CA502-SB08-010		
DATE COLLECTED			January 31, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB07-030			CA502-SB08-005			CA502-SB08-010		
DATE COLLECTED			January 31, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	3.30E+00	1.10E+01	J	<	1.20E+01	U	<	1.20E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	2.20E+01	2.30E+01	J	<	2.30E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	2.36E+00	5.30E-01		6.90E+00	5.78E-01		3.71E+00	5.66E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB08-015			CA502-SB08-018			CA502-SB08-025		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.70E-03	U	<	4.50E-03	U	<	6.70E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB08-015			CA502-SB08-018			CA502-SB08-025		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.70E-03	U	<	4.50E-03	U	<	6.70E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.10E-02	U	<	9.00E-03	U	<	1.30E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.70E-03	U	<	4.50E-03	U	<	6.70E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.70E-03	U	<	4.50E-03	U	<	6.70E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.70E-03	U	<	4.50E-03	U	<	6.70E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB08-015			CA502-SB08-018			CA502-SB08-025		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB08-015			CA502-SB08-018			CA502-SB08-025		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	3.50E+00	1.10E+01	J	3.60E+00	1.20E+01	J
Gasoline Range Organics	1.40E+00	2 / 74	<	1.30E+00	U	<	1.00E+00	U	<	1.30E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	8.50E+00	2.30E+01	J	<	2.40E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	1.65E+00	5.39E-01		1.94E+00	5.52E-01		2.57E+00	5.80E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB08-030			CA502-SB09-005			CA502-SB09-010		
DATE COLLECTED			January 30, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.50E-03	U	<	4.90E-03	U	<	4.80E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB08-030			CA502-SB09-005			CA502-SB09-010		
DATE COLLECTED			January 30, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.50E-03	U	<	4.90E-03	U	<	4.80E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.10E-02	U	<	9.90E-03	U	<	9.60E-03	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.50E-03	U	<	4.90E-03	U	<	4.80E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.50E-03	U	<	4.90E-03	U	<	4.80E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.50E-03	U	<	4.90E-03	U	<	4.80E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB08-030			CA502-SB09-005			CA502-SB09-010		
DATE COLLECTED			January 30, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB08-030			CA502-SB09-005			CA502-SB09-010		
DATE COLLECTED			January 30, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	3.40E+00	1.10E+01	J	<	1.20E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.00E+00	U	<	1.00E+00	U	<	9.50E-01	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	2.93E+00	5.31E-01	J	7.31E+01	5.32E-01		5.93E+01	5.66E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB09-015			CA502-SB09-020			CA502-SB09-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	6.30E-03	U	<	6.20E-03	U	<	5.80E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB09-015			CA502-SB09-020			CA502-SB09-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	6.30E-03	U	<	6.20E-03	U	<	5.80E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.30E-02	U	<	1.20E-02	U	<	1.20E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	6.30E-03	U	<	6.20E-03	U	<	5.80E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	6.30E-03	U	<	6.20E-03	U	<	5.80E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	6.30E-03	U	<	6.20E-03	U	<	5.80E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB09-015			CA502-SB09-020			CA502-SB09-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB09-015			CA502-SB09-020			CA502-SB09-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.30E+00	U	<	1.20E+00	U	<	1.10E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	5.93E+00	5.27E-01		1.12E+01	5.34E-01		4.92E+00	5.38E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB09-030			CA502-SB10-005			CA502-SB10-010		
DATE COLLECTED			February 1, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.20E-03	U	<	5.40E-03	U	<	5.90E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB09-030			CA502-SB10-005			CA502-SB10-010		
DATE COLLECTED			February 1, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.20E-03	U	<	5.40E-03	U	<	5.90E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.00E-02	U	<	1.10E-02	U	<	1.20E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.20E-03	U	<	5.40E-03	U	<	5.90E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.20E-03	U	<	5.40E-03	U	<	5.90E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.20E-03	U	<	5.40E-03	U	<	5.90E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB09-030			CA502-SB10-005			CA502-SB10-010		
DATE COLLECTED			February 1, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB09-030			CA502-SB10-005			CA502-SB10-010		
DATE COLLECTED			February 1, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.20E+01	U	<	1.20E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.00E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	9.50E+00	2.40E+01	J	<	2.40E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	2.91E+00	5.13E-01		5.66E+00	5.65E-01		3.25E+00	5.73E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB10-015			CA502-SB10-020			CA502-SB10-025		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.50E-03	U	<	5.90E-03	U	<	5.70E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB10-015			CA502-SB10-020			CA502-SB10-025		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.50E-03	U	<	5.90E-03	U	<	5.70E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.50E-03	U	<	5.90E-03	U	<	5.70E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.50E-03	U	<	5.90E-03	U	<	5.70E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.50E-03	U	<	5.90E-03	U	<	5.70E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB10-015			CA502-SB10-020			CA502-SB10-025		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB10-015			CA502-SB10-020			CA502-SB10-025		
DATE COLLECTED			February 3, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.20E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.20E+00	U	<	1.40E+00	U	<	1.10E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.30E+01	U	<	2.30E+01	U	<	2.30E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	2.20E+00	5.28E-01		1.77E+00	5.64E-01		2.86E+00	5.68E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB10-030			CA502-SB11-005			CA502-SB11-010		
DATE COLLECTED			February 3, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.60E-03	U	<	5.20E-03	U	<	5.90E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB10-030			CA502-SB11-005			CA502-SB11-010		
DATE COLLECTED			February 3, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.60E-03	U	<	5.20E-03	U	<	5.90E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.10E-02	U	<	1.00E-02	U	<	1.20E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.60E-03	U	<	5.20E-03	U	<	5.90E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.60E-03	U	<	5.20E-03	U	<	5.90E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.60E-03	U	<	5.20E-03	U	<	5.90E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB10-030			CA502-SB11-005			CA502-SB11-010		
DATE COLLECTED			February 3, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB10-030			CA502-SB11-005			CA502-SB11-010		
DATE COLLECTED			February 3, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.20E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.20E+01	U	4.10E+00	1.20E+01	J
Gasoline Range Organics	1.40E+00	2 / 74	<	1.10E+00	U	<	1.00E+00	U	<	1.10E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.20E+01	U	<	2.40E+01	U	<	2.40E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	3.35E+00	5.39E-01		4.53E+01	5.71E-01		6.02E+01	5.48E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB11-015			CA502-SB11-020			CA502-SB11-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.90E-03	U	<	4.70E-03	U	<	6.00E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB11-015			CA502-SB11-020			CA502-SB11-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.90E-03	U	<	4.70E-03	U	<	6.00E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.20E-02	U	<	9.50E-03	U	<	1.20E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.90E-03	U	<	4.70E-03	U	<	6.00E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.90E-03	U	<	4.70E-03	U	<	6.00E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.90E-03	U	<	4.70E-03	U	<	6.00E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB11-015			CA502-SB11-020			CA502-SB11-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB11-015			CA502-SB11-020			CA502-SB11-025		
DATE COLLECTED			February 1, 2013			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	2.90E-02	3 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.20E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.20E+01	U	<	1.10E+01	U	<	1.20E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.10E+00	U	<	9.80E-01	U	<	1.10E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.40E+01	U	<	2.30E+01	U	<	2.30E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	7.20E+00	5.58E-01		5.94E+00	5.49E-01		2.62E+00	5.64E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB11-028			CA502-SB11-035			CA502-SB11-040		
DATE COLLECTED			February 1, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5									
1,1,1-Trichloroethane	ND	0 / 5									
1,1,2,2-Tetrachloroethane	ND	0 / 5									
1,1,2-Trichloroethane	ND	0 / 5									
1,1-Dichloroethane	ND	0 / 5									
1,1-Dichloroethene	ND	0 / 5									
1,1-Dichloropropene	ND	0 / 5									
1,2,3-Trichlorobenzene	ND	0 / 5									
1,2,3-Trichloropropane	ND	0 / 5									
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2,4-Trimethylbenzene	ND	0 / 5									
1,2-Dibromo-3-Chloropropane	ND	0 / 5									
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,2-Dichloroethane	ND	0 / 5									
1,2-Dichloroethene (cis)	ND	0 / 5									
1,2-Dichloroethene (trans)	ND	0 / 5									
1,2-Dichloropropane	ND	0 / 5									
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,3-Dichloropropane	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,2-Dichloropropane	ND	0 / 5									
2-Chlorotoluene	ND	0 / 5									
2-Hexanone	ND	0 / 5									
4-Chlorotoluene	ND	0 / 5									
4-Methyl-2-Pentanone	ND	0 / 5									
Acetone	ND	0 / 5									
Benzene	ND	0 / 74	<	5.40E-03	U	<	5.00E-03	U	<	5.50E-03	U
Bromobenzene	ND	0 / 5									
Bromochloromethane	ND	0 / 5									
Bromodichloromethane	ND	0 / 5									
Bromoform	ND	0 / 5									
Bromomethane	ND	0 / 5									
Carbon Disulfide	ND	0 / 5									
Carbon Tetrachloride	ND	0 / 5									
Chlorobenzene	ND	0 / 5									
Chloroethane	ND	0 / 5									
Chloroform	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB11-028			CA502-SB11-035			CA502-SB11-040		
DATE COLLECTED			February 1, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5									
cis-1,3-Dichloropropene	ND	0 / 5									
Dibromochloromethane	ND	0 / 5									
Dibromomethane	ND	0 / 5									
Dichlorodifluoromethane	ND	0 / 5									
Ethylbenzene	ND	0 / 74	<	5.40E-03	U	<	5.00E-03	U	<	5.50E-03	U
Hexachlorobutadiene	ND	0 / 5									
Isopropylbenzene (Cumene)	ND	0 / 5									
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5									
Methylene Chloride	ND	0 / 5									
Naphthalene	2.90E-02	2 / 74	<	5.40E-03	U	<	5.00E-03	U	<	5.50E-03	U
n-Butylbenzene	ND	0 / 5									
n-Propylbenzene	ND	0 / 5									
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.40E-03	U	<	5.00E-03	U	<	5.50E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5									
sec-Butylbenzene	ND	0 / 5									
Styrene	ND	0 / 5									
t-Butylbenzene	ND	0 / 5									
Tetrachloroethene	ND	0 / 5									
Toluene	ND	0 / 74	<	5.40E-03	U	<	5.00E-03	U	<	5.50E-03	U
trans-1,3-Dichloropropene	ND	0 / 5									
Trichloroethene	ND	0 / 5									
Trichlorofluoromethane	ND	0 / 5									
Vinyl Chloride	ND	0 / 5									
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5									
1,2-Dichlorobenzene	ND	0 / 5									
1,3-Dichlorobenzene	ND	0 / 5									
1,4-Dichlorobenzene	ND	0 / 5									
2,4,5-Trichlorophenol	ND	0 / 5									
2,4,6-Trichlorophenol	ND	0 / 5									
2,4-Dichlorophenol	ND	0 / 5									
2,4-Dimethylphenol	ND	0 / 5									
2,4-Dinitrophenol	ND	0 / 5									
2,4-Dinitrotoluene	ND	0 / 5									
2,6-Dinitrotoluene	ND	0 / 5									
2-Chloronaphthalene	ND	0 / 5									
2-Chlorophenol	ND	0 / 5									
2-Methylphenol (o-cresol)	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB11-028			CA502-SB11-035			CA502-SB11-040		
DATE COLLECTED			February 1, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5									
2-Nitrophenol	ND	0 / 5									
3-Nitroaniline	ND	0 / 5									
4,6-Dinitro-2-methylphenol	ND	0 / 5									
4-Bromophenyl-phenylether	ND	0 / 5									
4-Chloro-3-methylphenol	ND	0 / 5									
4-Chlorophenyl-phenylether	ND	0 / 5									
4-Methylphenol (p-cresol)	ND	0 / 5									
4-Nitroaniline	ND	0 / 5									
4-Nitrophenol	ND	0 / 5									
Benzyl Alcohol	ND	0 / 5									
bis(2-Chloroethoxy)methane	ND	0 / 5									
bis(2-Chloroethyl)ether	ND	0 / 5									
bis(2-Ethylhexyl)phthalate	ND	0 / 5									
Butylbenzylphthalate	ND	0 / 5									
Carbazole	ND	0 / 5									
Dibenzofuran	ND	0 / 5									
Diethylphthalate	ND	0 / 5									
Dimethylphthalate	ND	0 / 5									
Di-n-butylphthalate	ND	0 / 5									
Di-n-octylphthalate	ND	0 / 5									
Hexachlorobenzene	ND	0 / 5									
Hexachlorobutadiene	ND	0 / 5									
Hexachloroethane	ND	0 / 5									
Isophorone	ND	0 / 5									
Nitrobenzene	ND	0 / 5									
N-Nitrosodimethylamine	ND	0 / 5									
N-Nitroso-di-n-propylamine	ND	0 / 5									
N-Nitrosodiphenylamine	ND	0 / 5									
Pentachlorophenol	ND	0 / 5									
Phenol	ND	0 / 5									
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5									
Acenaphthylene	ND	0 / 5									
Anthracene	ND	0 / 5									
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5									

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB11-028			CA502-SB11-035			CA502-SB11-040		
DATE COLLECTED			February 1, 2013			February 3, 2013			February 3, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5									
Fluorene	ND	0 / 5									
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5									
Phenanthrene	ND	0 / 5									
Pyrene	3.40E-03	1 / 5									
PCBs (mg/kg)											
PCB-1016	ND	0 / 5									
PCB-1221	ND	0 / 5									
PCB-1232	ND	0 / 5									
PCB-1242	ND	0 / 5									
PCB-1248	ND	0 / 5									
PCB-1254	ND	0 / 5									
PCB-1260	ND	0 / 5									
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.20E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	1.20E+02	22 / 74	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5									
Barium	1.42E+03	5 / 5									
Cadmium	2.32E-01	5 / 5									
Chromium	1.24E+01	5 / 5									
Lead	1.32E+02	74 / 74	5.65E+00	5.54E-01		2.30E+00	5.56E-01		2.12E+00	5.32E-01	
Mercury	ND	0 / 5									
Selenium	1.86E-01	5 / 5									
Silver	ND	0 / 5									

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB12-005			CA502-SB12-010			CA502-SB13-004		
DATE COLLECTED			January 31, 2013			January 31, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,1,1-Trichloroethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,1,2-Trichloroethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,1-Dichloroethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,1-Dichloroethene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,1-Dichloropropene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,2,3-Trichlorobenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,2,3-Trichloropropane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,2,4-Trichlorobenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,2,4-Trimethylbenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 5	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,2-Dichlorobenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,2-Dichloroethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,2-Dichloroethene (cis)	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,2-Dichloroethene (trans)	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,2-Dichloropropane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,3-Dichlorobenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,3-Dichloropropane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
1,4-Dichlorobenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
2,2-Dichloropropane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
2-Chlorotoluene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
2-Hexanone	ND	0 / 5	<	2.00E-02	U	<	2.10E-02	U	<	2.00E-02	U
4-Chlorotoluene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
4-Methyl-2-Pentanone	ND	0 / 5	<	2.00E-02	U	<	2.10E-02	U	<	2.00E-02	U
Acetone	ND	0 / 5	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzene	ND	0 / 74	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Bromobenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Bromochloromethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Bromodichloromethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Bromoform	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Bromomethane	ND	0 / 5	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Carbon Disulfide	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Carbon Tetrachloride	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Chlorobenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Chloroethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Chloroform	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB12-005			CA502-SB12-010			CA502-SB13-004		
DATE COLLECTED			January 31, 2013			January 31, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
cis-1,3-Dichloropropene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Dibromochloromethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Dibromomethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Dichlorodifluoromethane	ND	0 / 5	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Ethylbenzene	ND	0 / 74	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Hexachlorobutadiene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Isopropylbenzene (Cumene)	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Methylene Chloride	ND	0 / 5	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	2.90E-02	2 / 74	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
n-Butylbenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
n-Propylbenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
sec-Butylbenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Styrene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
t-Butylbenzene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Tetrachloroethene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Toluene	ND	0 / 74	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
trans-1,3-Dichloropropene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Trichloroethene	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Trichlorofluoromethane	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
Vinyl Chloride	ND	0 / 5	<	5.00E-03	U	<	5.30E-03	U	<	5.10E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
1,2-Dichlorobenzene	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
1,3-Dichlorobenzene	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
1,4-Dichlorobenzene	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
2,4,5-Trichlorophenol	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
2,4,6-Trichlorophenol	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
2,4-Dichlorophenol	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
2,4-Dimethylphenol	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
2,4-Dinitrophenol	ND	0 / 5	<	7.50E-01	U	<	7.60E-01	U	<	7.40E-01	U
2,4-Dinitrotoluene	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
2,6-Dinitrotoluene	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
2-Chloronaphthalene	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
2-Chlorophenol	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
2-Methylphenol (o-cresol)	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB12-005			CA502-SB12-010			CA502-SB13-004		
DATE COLLECTED			January 31, 2013			January 31, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
2-Nitrophenol	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
3-Nitroaniline	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 5	<	7.50E-01	U	<	7.60E-01	U	<	7.40E-01	U
4-Bromophenyl-phenylether	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
4-Chloro-3-methylphenol	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
4-Chlorophenyl-phenylether	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
4-Methylphenol (p-cresol)	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
4-Nitroaniline	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
4-Nitrophenol	ND	0 / 5	<	7.50E-01	U	<	7.60E-01	U	<	7.40E-01	U
Benzyl Alcohol	ND	0 / 5	<	1.50E+00	U	<	1.50E+00	U	<	1.50E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
bis(2-Chloroethyl)ether	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Butylbenzylphthalate	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Carbazole	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Dibenzofuran	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Diethylphthalate	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Dimethylphthalate	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Di-n-butylphthalate	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Di-n-octylphthalate	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Hexachlorobenzene	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Hexachlorobutadiene	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Hexachloroethane	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Isophorone	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Nitrobenzene	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
N-Nitrosodimethylamine	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
N-Nitrosodiphenylamine	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
Pentachlorophenol	ND	0 / 5	<	7.50E-01	U	<	7.60E-01	U	<	7.40E-01	U
Phenol	ND	0 / 5	<	3.80E-01	U	<	3.80E-01	U	<	3.70E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	3.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	3.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB12-005			CA502-SB12-010			CA502-SB13-004		
DATE COLLECTED			January 31, 2013			January 31, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	4.60E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Fluorene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	3.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
PCBs (mg/kg)											
PCB-1016	ND	0 / 5	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 5	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 5	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 5	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 5	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 5	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U
PCB-1260	ND	0 / 5	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.10E+01	19 / 74	1.40E+01	1.10E+01		2.10E+01	1.10E+01		<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	9.50E-01	U	<	8.70E-01	U	<	1.10E+00	U
Oil Range Organics	1.20E+02	22 / 74	6.60E+01	2.30E+01		1.20E+02	2.30E+01		1.90E+01	2.20E+01	J
METALS (mg/kg)											
Arsenic	3.75E+00	5 / 5	3.75E+00	5.52E-01		2.92E+00	5.61E-01		3.69E+00	5.28E-01	
Barium	1.42E+03	5 / 5	1.57E+02	5.52E-01		7.27E+02	5.61E-01		2.12E+02	5.28E-01	
Cadmium	2.32E-01	5 / 5	2.13E-01	5.52E-01	J	2.13E-01	5.61E-01	J	2.29E-01	5.28E-01	J
Chromium	1.24E+01	5 / 5	1.04E+01	5.52E-01		7.75E+00	5.61E-01		1.24E+01	5.28E-01	
Lead	1.32E+02	74 / 74	8.94E+00	5.52E-01		1.23E+01	5.61E-01		9.01E+00	5.28E-01	
Mercury	ND	0 / 5	<	1.13E-01	U	<	1.15E-01	U	<	1.12E-01	U
Selenium	1.86E-01	5 / 5	1.24E-01	5.52E-01	J	7.94E-02	5.61E-01	J	1.86E-01	5.28E-01	J
Silver	ND	0 / 5	<	5.52E-01	U	<	5.61E-01	U	<	5.28E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB13-009			CA502-SB13-012		
DATE COLLECTED			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)								
1,1,1,2-Tetrachloroethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,1,1-Trichloroethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,1,2-Trichloroethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,1-Dichloroethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,1-Dichloroethene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,1-Dichloropropene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,2,3-Trichlorobenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,2,3-Trichloropropane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,2,4-Trichlorobenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,2,4-Trimethylbenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,2-Dichlorobenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,2-Dichloroethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,2-Dichloroethene (cis)	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,2-Dichloroethene (trans)	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,2-Dichloropropane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,3-Dichlorobenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,3-Dichloropropane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
1,4-Dichlorobenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
2,2-Dichloropropane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
2-Chlorotoluene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
2-Hexanone	ND	0 / 5	<	2.20E-02	U	<	2.20E-02	U
4-Chlorotoluene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
4-Methyl-2-Pentanone	ND	0 / 5	<	2.20E-02	U	<	2.20E-02	U
Acetone	ND	0 / 5	<	2.00E-02	U	<	1.10E-02	U
Benzene	ND	0 / 74	<	5.50E-03	U	<	5.60E-03	U
Bromobenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Bromochloromethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Bromodichloromethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Bromoform	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Bromomethane	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Carbon Tetrachloride	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Chlorobenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Chloroethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Chloroform	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB13-009			CA502-SB13-012		
DATE COLLECTED			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
cis-1,3-Dichloropropene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Dibromochloromethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Dibromomethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Dichlorodifluoromethane	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	ND	0 / 74	<	5.50E-03	U	<	5.60E-03	U
Hexachlorobutadiene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Isopropylbenzene (Cumene)	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 74	<	1.10E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.90E-02	2 / 74	<	5.50E-03	U	<	5.60E-03	U
n-Butylbenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
n-Propylbenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 74	<	5.50E-03	U	<	5.60E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
sec-Butylbenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Styrene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
t-Butylbenzene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Tetrachloroethene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Toluene	ND	0 / 74	<	5.50E-03	U	<	5.60E-03	U
trans-1,3-Dichloropropene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Trichloroethene	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Trichlorofluoromethane	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
Vinyl Chloride	ND	0 / 5	<	5.50E-03	U	<	5.60E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)								
1,2,4-Trichlorobenzene	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
1,2-Dichlorobenzene	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
1,3-Dichlorobenzene	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
1,4-Dichlorobenzene	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
2,4,5-Trichlorophenol	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
2,4,6-Trichlorophenol	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
2,4-Dichlorophenol	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
2,4-Dimethylphenol	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
2,4-Dinitrophenol	ND	0 / 5	<	7.40E-01	U	<	7.50E-01	U
2,4-Dinitrotoluene	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
2,6-Dinitrotoluene	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
2-Chloronaphthalene	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
2-Chlorophenol	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
2-Methylphenol (o-cresol)	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB13-009			CA502-SB13-012		
DATE COLLECTED			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
2-Nitrophenol	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
3-Nitroaniline	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 5	<	7.40E-01	U	<	7.50E-01	U
4-Bromophenyl-phenylether	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
4-Chloro-3-methylphenol	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
4-Chlorophenyl-phenylether	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
4-Methylphenol (p-cresol)	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
4-Nitroaniline	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
4-Nitrophenol	ND	0 / 5	<	7.40E-01	U	<	7.50E-01	U
Benzyl Alcohol	ND	0 / 5	<	1.50E+00	U	<	1.50E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
bis(2-Chloroethyl)ether	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Butylbenzylphthalate	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Carbazole	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Dibenzofuran	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Diethylphthalate	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Dimethylphthalate	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Di-n-butylphthalate	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Di-n-octylphthalate	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Hexachlorobenzene	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Hexachlorobutadiene	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Hexachloroethane	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Isophorone	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Nitrobenzene	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
N-Nitrosodimethylamine	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
N-Nitrosodiphenylamine	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
Pentachlorophenol	ND	0 / 5	<	7.40E-01	U	<	7.50E-01	U
Phenol	ND	0 / 5	<	3.70E-01	U	<	3.80E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)								
2-Methylnaphthalene	5.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
Anthracene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.20E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.50E-02	6 / 74	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.70E-02	7 / 74	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER GAS STATION (ST-C502)

FIELD ID			CA502-SB13-009			CA502-SB13-012		
DATE COLLECTED			February 1, 2013			February 1, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	1.00E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.90E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.50E-03	3 / 74	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	4.60E-03	1 / 5	<	1.10E-02	U	<	1.10E-02	U
Fluorene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.20E-02	3 / 74	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	ND	0 / 5	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.40E-03	1 / 5	<	1.10E-02	U	<	1.10E-02	U
PCBs (mg/kg)								
PCB-1016	ND	0 / 5	<	5.60E-02	U	<	5.70E-02	U
PCB-1221	ND	0 / 5	<	5.60E-02	U	<	5.70E-02	U
PCB-1232	ND	0 / 5	<	5.60E-02	U	<	5.70E-02	U
PCB-1242	ND	0 / 5	<	5.60E-02	U	<	5.70E-02	U
PCB-1248	ND	0 / 5	<	5.60E-02	U	<	5.70E-02	U
PCB-1254	ND	0 / 5	<	5.60E-02	U	<	5.70E-02	U
PCB-1260	ND	0 / 5	<	5.60E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)								
Diesel Range Organics	2.10E+01	19 / 74	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	1.40E+00	2 / 74	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	1.20E+02	22 / 74	8.50E+00	2.20E+01	J	<	2.30E+01	U
METALS (mg/kg)								
Arsenic	3.75E+00	5 / 5	2.67E+00	5.40E-01		2.73E+00	5.32E-01	
Barium	1.42E+03	5 / 5	1.42E+03	5.40E-01		1.06E+03	5.32E-01	
Cadmium	2.32E-01	5 / 5	2.19E-01	5.40E-01	J	2.32E-01	5.32E-01	J
Chromium	1.24E+01	5 / 5	7.21E+00	5.40E-01		6.35E+00	5.32E-01	
Lead	1.32E+02	74 / 74	3.84E+00	5.40E-01		3.40E+00	5.32E-01	
Mercury	ND	0 / 5	<	1.12E-01	U	<	1.12E-01	U
Selenium	1.86E-01	5 / 5	7.23E-02	5.40E-01	J	7.35E-02	5.32E-01	J
Silver	ND	0 / 5	<	5.40E-01	U	<	5.32E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = Estimated Nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-CA503)

FIELD ID			CA503-SB01-005			CA503-SB01-010			CA503-SB01-015		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 33	<	5.00E-03	U	<	5.50E-03	U	<	6.00E-03	U
Ethylbenzene	ND	0 / 33	<	5.00E-03	U	<	5.50E-03	U	<	6.00E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 33	<	1.00E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 33	<	5.00E-03	U	<	5.50E-03	U	<	6.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	5.00E-03	U	<	5.50E-03	U	<	6.00E-03	U
Toluene	ND	0 / 33	<	5.00E-03	U	<	5.50E-03	U	<	6.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	2.10E-02	9 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03	1 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.10E+01	13 / 33	3.70E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	2.00E+01	2.10E+01	J	<	2.30E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-CA503)

FIELD ID			CA503-SB01-020			CA503-SB01-024			CA503-SB02-005		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 33	<	5.90E-03	U	<	5.10E-03	U	<	4.60E-03	U
Ethylbenzene	ND	0 / 33	<	5.90E-03	U	<	5.10E-03	U	<	4.60E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 33	<	1.20E-02	U	<	1.00E-02	U	<	9.20E-03	U
Naphthalene	ND	0 / 33	<	5.90E-03	U	<	5.10E-03	U	<	4.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	5.90E-03	U	<	5.10E-03	U	<	4.60E-03	U
Toluene	ND	0 / 33	<	5.90E-03	U	<	5.10E-03	U	<	4.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	2.10E-02	9 / 33	4.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03	1 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.10E+01	13 / 33	2.40E+01	1.10E+01		1.20E+01	1.10E+01		5.10E+00	1.10E+01	J
Oil Range Organics	5.60E+01	10 / 33	<	2.20E+01	U	<	2.20E+01	U	1.90E+01	2.10E+01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-CA503)

FIELD ID			CA503-SB02-010			CA503-SB02-015			CA503-SB02-020		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 33	<	5.00E-03	U	<	4.70E-03	U	<	4.80E-03	U
Ethylbenzene	ND	0 / 33	<	5.00E-03	U	<	4.70E-03	U	<	4.80E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 33	<	9.90E-03	U	<	9.40E-03	U	<	9.60E-03	U
Naphthalene	ND	0 / 33	<	5.00E-03	U	<	4.70E-03	U	<	4.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	5.00E-03	U	<	4.70E-03	U	<	4.80E-03	U
Toluene	ND	0 / 33	<	5.00E-03	U	<	4.70E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	2.10E-02	9 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03	1 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.10E+01	13 / 33	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-CA503)

FIELD ID			CA503-SB02-025			CA503-SB03-005			CA503-SB03-010		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 33	<	6.20E-03	U	<	6.10E-03	U	<	5.10E-03	U
Ethylbenzene	ND	0 / 33	<	6.20E-03	U	<	6.10E-03	U	<	5.10E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 33	<	1.20E-02	U	<	1.20E-02	U	<	1.00E-02	U
Naphthalene	ND	0 / 33	<	6.20E-03	U	<	6.10E-03	U	<	5.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	6.20E-03	U	<	6.10E-03	U	<	5.10E-03	U
Toluene	ND	0 / 33	<	6.20E-03	U	<	6.10E-03	U	<	5.10E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	2.10E-02	9 / 33	<	1.10E-02	U	3.40E-03	1.10E-02	J	1.20E-02	1.10E-02	
Benzo(a)pyrene	2.10E-02	5 / 33	<	1.10E-02	U	<	1.10E-02	U	1.20E-02	1.10E-02	
Benzo(b)fluoranthene	2.70E-02	6 / 33	<	1.10E-02	U	4.20E-03	1.10E-02	J	1.60E-02	1.10E-02	
Benzo(k)fluoranthene	9.10E-03	3 / 33	<	1.10E-02	U	<	1.10E-02	U	5.30E-03	1.10E-02	J
Chrysene	1.80E-02	4 / 33	<	1.10E-02	U	<	1.10E-02	U	1.00E-02	1.10E-02	J
Dibenz(a,h)anthracene	4.00E-03	1 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	8.10E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.10E+01	13 / 33	5.10E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	<	2.20E+01	U	1.60E+01	2.20E+01	J	1.70E+01	2.20E+01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-CA503)

FIELD ID			CA503-SB03-015			CA503-SB03-020			CA503-SB03-023		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 33	<	6.20E-03	U	<	5.20E-03	U	<	5.70E-03	U
Ethylbenzene	ND	0 / 33	<	6.20E-03	U	<	5.20E-03	U	<	5.70E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 33	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 33	<	6.20E-03	U	<	5.20E-03	U	<	5.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	6.20E-03	U	<	5.20E-03	U	<	5.70E-03	U
Toluene	ND	0 / 33	<	6.20E-03	U	<	5.20E-03	U	<	5.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	2.10E-02	9 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03	1 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.10E+01	13 / 33	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-CA503)

FIELD ID			CA503-SB04-005			CA503-SB04-010			CA503-SB04-015		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 29, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 33	<	6.90E-03	U	<	5.40E-03	U	<	5.30E-03	U
Ethylbenzene	ND	0 / 33	<	6.90E-03	U	<	5.40E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 33	<	1.40E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 33	<	6.90E-03	U	<	5.40E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	6.90E-03	U	<	5.40E-03	U	<	5.30E-03	U
Toluene	ND	0 / 33	<	6.90E-03	U	<	5.40E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	2.10E-02	9 / 33	2.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	2.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	2.70E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03	3 / 33	9.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	1.80E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03	1 / 33	4.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.10E+01	13 / 33	2.10E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	5.60E+01	2.20E+01		<	2.30E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-CA503)

FIELD ID			CA503-SB04-020			CA503-SB04-025			CA503-SB05-005		
DATE COLLECTED			January 29, 2013			January 29, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 33	<	6.10E-03	U	<	5.20E-03	U	<	5.00E-03	U
Ethylbenzene	ND	0 / 33	<	6.10E-03	U	<	5.20E-03	U	<	5.00E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 33	<	1.20E-02	U	<	1.00E-02	U	<	9.90E-03	U
Naphthalene	ND	0 / 33	<	6.10E-03	U	<	5.20E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	6.10E-03	U	<	5.20E-03	U	<	5.00E-03	U
Toluene	ND	0 / 33	<	6.10E-03	U	<	5.20E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	2.10E-02	9 / 33	<	1.10E-02	U	<	1.10E-02	U	4.70E-03	1.10E-02	J
Benzo(a)pyrene	2.10E-02	5 / 33	<	1.10E-02	U	<	1.10E-02	U	3.60E-03	1.10E-02	J
Benzo(b)fluoranthene	2.70E-02	6 / 33	<	1.10E-02	U	<	1.10E-02	U	7.00E-03	1.10E-02	J
Benzo(k)fluoranthene	9.10E-03	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03	1 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.10E+01	13 / 33	<	1.10E+01	U	<	1.10E+01	U	2.90E+00	1.10E+01	J
Oil Range Organics	5.60E+01	10 / 33	<	2.20E+01	U	<	2.20E+01	U	2.60E+01	2.20E+01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-CA503)

FIELD ID			CA503-SB05-015			CA503-SB05-020			CA503-SB05-025		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 33	<	4.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Ethylbenzene	ND	0 / 33	<	4.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 33	<	8.60E-03	U	<	1.00E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 33	<	4.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	4.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Toluene	ND	0 / 33	<	4.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	2.10E-02	9 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03	1 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.10E+01	13 / 33	9.80E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-CA503)

FIELD ID			CA503-SB05-10			CA503-SB06-005			CA503-SB06-010		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	5.30E-03	U
Ethylbenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 33	<	1.30E-02	U	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	5.30E-03	U
Toluene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	2.10E-02	9 / 33	1.30E-02	1.10E-02		5.40E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	1.00E-02	1.10E-02	J	3.80E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	1.30E-02	1.10E-02		6.10E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03	3 / 33	5.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	9.30E-03	1.10E-02	J	3.50E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03	1 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	5.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.10E+01	13 / 33	1.00E+01	1.10E+01	J	2.90E+00	1.10E+01	J	<	1.10E+01	U
Oil Range Organics	5.60E+01	10 / 33	9.00E+00	2.20E+01	J	5.30E+01	2.20E+01		<	2.30E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-CA503)

FIELD ID			CA503-SB06-015			CA503-SB06-020			CA503-SB06-025		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 33	<	5.50E-03	U	<	5.50E-03	U	<	4.50E-03	U
Ethylbenzene	ND	0 / 33	<	5.50E-03	U	<	5.50E-03	U	<	4.50E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	9.10E-03	U
Naphthalene	ND	0 / 33	<	5.50E-03	U	<	5.50E-03	U	<	4.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	5.50E-03	U	<	5.50E-03	U	<	4.50E-03	U
Toluene	ND	0 / 33	<	5.50E-03	U	<	5.50E-03	U	<	4.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	2.10E-02	9 / 33	<	1.10E-02	U	9.40E-03	1.10E-02	J	3.10E-03	1.10E-02	J
Benzo(a)pyrene	2.10E-02	5 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.10E-03	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.80E-02	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.00E-03	1 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.10E+01	13 / 33	8.10E+01	1.10E+01		3.60E+01	1.10E+01		1.10E+01	1.10E+01	J
Oil Range Organics	5.60E+01	10 / 33	1.10E+01	2.20E+01	J	<	2.20E+01	U	5.90E+00	2.30E+01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
BASE SUPPORT/OPERATIONS GENERATOR FORMER UST SITE (ST-CA503)

FIELD ID			CA503-SB07-015			CA503-SB07-020			CA503-SB07-025		
DATE COLLECTED			January 30, 2013			January 30, 2013			January 30, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 33	<	6.90E-03	U	<	6.80E-03	U	<	6.60E-03	U
Ethylbenzene	ND	0 / 33	<	6.90E-03	U	<	6.80E-03	U	<	6.60E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 33	<	1.40E-02	U	<	1.40E-02	U	<	1.30E-02	U
Naphthalene	ND	0 / 33	<	6.90E-03	U	<	6.80E-03	U	<	6.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	6.90E-03	U	<	6.80E-03	U	<	6.60E-03	U
Toluene	ND	0 / 33	<	6.90E-03	U	<	6.80E-03	U	<	6.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	ND	0 / 33	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Benzo(a)anthracene	2.10E-02	9 / 33	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.10E-02	5 / 33	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	2.70E-02	6 / 33	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	9.10E-03	3 / 33	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Chrysene	1.80E-02	4 / 33	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	4.00E-03	1 / 33	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	1.40E-02	3 / 33	<	1.10E-02	U	<	2.30E-02	U	<	1.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.10E+01	13 / 33	<	1.10E+01	U	<	1.20E+01	U	<	1.20E+01	U
Oil Range Organics	5.60E+01	10 / 33	<	2.30E+01	U	<	2.30E+01	U	<	2.30E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-005			CA504-SB01-010			CA504-SB01-015			CA504-SB01-020		
DATE COLLECTED			February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	4.80E-03	U	<	6.20E-03	U	<	6.80E-03	U	<	5.40E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	4.80E-03	U	<	6.20E-03	U	<	6.80E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	9.70E-03	U	<	1.20E-02	U	<	1.40E-02	U	<	1.10E-02	U
Naphthalene	4.30E-02	41 / 164	<	4.80E-03	U	<	6.20E-03	U	<	6.80E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	4.80E-03	U	<	6.20E-03	U	<	6.80E-03	U	<	5.40E-03	U
Toluene	5.60E-03	18 / 164	<	4.80E-03	U	<	6.20E-03	U	<	6.80E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	2.40E-02	1.10E-02		6.80E-03	1.10E-02	J	<	1.10E-02	U	3.20E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	2.90E-02	1.10E-02		3.80E-03	1.10E-02	J	<	1.10E-02	U	1.50E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	4.80E-02	1.10E-02		6.40E-03	1.10E-02	J	<	1.10E-02	U	1.30E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	3.20E-02	1.10E-02		5.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	4.60E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	1.70E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	2.20E-02	1.10E-02	
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	4.60E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	1.90E+02	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.80E+01	2.10E+01	J	1.50E+01	2.10E+01	J	<	2.30E+01	U	<	2.30E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-023			CA504-SB01-025			CA504-SB01-030			CA504-SB01-035		
DATE COLLECTED			February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.40E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.70E-03	UJ
Ethylbenzene	2.00E-02	20 / 164	<	5.40E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.70E-03	UJ
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	UJ
Naphthalene	4.30E-02	41 / 164	<	5.40E-03	U	2.50E-03	5.30E-03	J	3.10E-02	5.10E-03		3.20E-02	5.70E-03	J
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.40E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.70E-03	UJ
Toluene	5.60E-03	18 / 164	<	5.40E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.70E-03	UJ
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	2.00E-01	1.10E-02	J	5.00E-02	1.10E-02	J	1.60E-01	1.10E-02	J	1.00E-01	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	1.30E-01	1.10E-02	J	8.00E-02	1.10E-02	J	3.70E-02	1.10E-02	J	2.80E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	2.30E-01	1.10E-02	J	1.20E-01	1.10E-02	J	6.00E-02	1.10E-02	J	7.70E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	7.70E-02	1.10E-02	J	3.10E-02	1.10E-02	J	2.00E-02	1.10E-02	J	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	5.70E-01	1.10E-02	J	2.80E-01	1.10E-02	J	2.00E-01	1.10E-02	J	1.80E-01	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01	20 / 164	1.60E-02	1.10E-02	J	1.10E-02	1.10E-02	J	<	1.10E-02	U	3.70E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	3.80E-02	1.10E-02	J	3.00E-02	1.10E-02	J	9.60E-03	1.10E-02	J	7.40E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	3.40E+03	1.10E+02		2.70E+03	1.10E+01		3.15E+03	5.30E+01		2.60E+03	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+02	U	2.00E+01	2.10E+01	J	<	1.10E+02	U	9.40E+00	2.10E+01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-040			CA504-SB01-045			CA504-SB01-050			CA504-SB01-055		
DATE COLLECTED			February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.70E-03	U	<	5.70E-03	U	<	6.00E-03	U	<	5.30E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.70E-03	U	<	5.70E-03	U	<	6.00E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	4.30E-02	41 / 164	5.70E-03	5.70E-03	J	6.30E-03	5.70E-03	J	9.30E-03	6.00E-03	J	1.50E-02	5.30E-03	
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.70E-03	U	<	5.70E-03	U	<	6.00E-03	U	<	5.30E-03	U
Toluene	5.60E-03	18 / 164	<	5.70E-03	U	<	5.70E-03	U	<	6.00E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.60E-01	1.10E-02	J	2.00E-01	1.10E-02	J	1.90E-01	1.10E-02	J	1.80E-01	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	4.00E-02	1.10E-02	J	5.30E-02	1.10E-02	J	5.20E-02	1.10E-02	J	5.60E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	6.30E-02	1.10E-02	J	9.20E-02	1.10E-02	J	7.80E-02	1.10E-02	J	9.70E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	2.70E-02	1.10E-02	J	3.20E-02	1.10E-02	J	3.30E-02	1.10E-02	J	3.00E-02	1.10E-02	J
Chrysene	4.60E+00	72 / 164	2.40E-01	1.10E-02	J	2.40E-01	1.10E-02	J	2.50E-01	1.10E-02	J	2.70E-01	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01	20 / 164	4.00E-03	1.10E-02	J	3.90E-03	1.10E-02	J	4.40E-03	1.10E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	1.10E-02	1.10E-02	J	1.20E-02	1.10E-02	J	1.40E-02	1.10E-02	J	1.10E-02	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	4.00E+03	1.10E+02		4.90E+03	1.10E+02		4.90E+03	1.10E+02		6.00E+03	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-060			CA504-SB01-065			CA504-SB01-070			CA504-SB01-075		
DATE COLLECTED			February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	6.20E-03	U	<	5.70E-03	U	<	5.40E-03	U	<	5.10E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	6.20E-03	U	<	5.70E-03	U	<	5.40E-03	U	<	5.10E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	4.30E-02	41 / 164	<	6.20E-03	U	<	5.70E-03	U	<	5.40E-03	U	<	5.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	6.20E-03	U	<	5.70E-03	U	<	5.40E-03	U	<	5.10E-03	U
Toluene	5.60E-03	18 / 164	<	6.20E-03	U	<	5.70E-03	U	<	5.40E-03	U	<	5.10E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.20E-01	1.00E-02		3.00E-02	1.00E-02		<	1.10E-02	U	1.40E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	5.10E-02	1.00E-02		3.60E-02	1.00E-02		1.90E-02	1.10E-02		2.30E-02	1.00E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	7.90E-02	1.00E-02		4.60E-02	1.00E-02		2.10E-02	1.10E-02		2.70E-02	1.00E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	2.30E-02	1.00E-02		1.50E-02	1.00E-02		6.70E-03	1.10E-02	J	6.20E-03	1.00E-02	J
Chrysene	4.60E+00	72 / 164	1.30E-01	1.00E-02		6.00E-02	1.00E-02		2.80E-02	1.10E-02		4.60E-02	1.00E-02	
Dibenz(a,h)anthracene	2.20E-01	20 / 164	7.60E-03	1.00E-02	J	6.40E-03	1.00E-02	J	<	1.10E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	1.70E-02	1.00E-02		1.30E-02	1.00E-02		7.30E-03	1.10E-02	J	7.50E-03	1.00E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	5.50E+03	1.00E+02		5.10E+03	1.00E+02		4.10E+03	1.10E+02		6.60E+03	1.00E+02	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-080			CA504-SB01-085			CA504-SB01-090			CA504-SB01-095		
DATE COLLECTED			February 6, 2013			February 6, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	4.90E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.10E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	4.90E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.10E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	9.70E-03	U	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Naphthalene	4.30E-02	41 / 164	<	4.90E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	4.90E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.10E-03	U
Toluene	5.60E-03	18 / 164	<	4.90E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.10E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	3.40E-02	1.00E-02		1.80E-02	1.10E-02		1.30E-02	1.00E-02		2.00E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.50E-02	1.00E-02		1.40E-02	1.10E-02		1.00E-02	1.00E-02	J	1.00E-02	1.00E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.50E-02	1.00E-02		1.50E-02	1.10E-02		9.00E-03	1.00E-02	J	9.20E-03	1.00E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	3.80E-03	1.00E-02	J	3.50E-03	1.10E-02	J	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	5.70E-02	1.00E-02		4.30E-02	1.10E-02		3.20E-02	1.00E-02		<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	5.30E-03	1.00E-02	J	5.10E-03	1.10E-02	J	4.30E-03	1.00E-02	J	4.40E-03	1.00E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	5.00E+03	1.00E+02		4.70E+03	1.10E+02		2.80E+03	1.00E+01		3.00E+03	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
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LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-100			CA504-SB01-105			CA504-SB01-110			CA504-SB01-115		
DATE COLLECTED			February 6, 2013			February 6, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.10E-03	UJ	<	5.10E-03	U	<	5.20E-03	U	<	4.80E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.10E-03	UJ	<	5.10E-03	U	<	5.20E-03	U	2.80E-03	4.80E-03	J
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.00E-02	UJ	<	1.00E-02	U	<	1.00E-02	U	2.30E-03	9.70E-03	J
Naphthalene	4.30E-02	41 / 164	<	5.10E-03	UJ	<	5.10E-03	U	3.10E-03	5.20E-03	J	1.10E-02	4.80E-03	J
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.10E-03	UJ	<	5.10E-03	U	<	5.20E-03	U	<	4.80E-03	U
Toluene	5.60E-03	18 / 164	<	5.10E-03	UJ	<	5.10E-03	U	<	5.20E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.30E-01	1.00E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	4.10E-02	1.10E-02		6.00E-02	1.10E-02		3.80E-02	1.10E-02		2.60E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.70E-02	1.10E-02		1.60E-02	1.10E-02		8.40E-03	1.10E-02	J	5.00E-03	1.00E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	2.00E-02	1.10E-02		2.50E-02	1.10E-02		1.50E-02	1.10E-02		7.50E-03	1.00E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	4.20E-03	1.10E-02	J	5.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	6.90E-02	1.10E-02		1.00E-01	1.10E-02		6.80E-02	1.10E-02		4.20E-02	1.00E-02	
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	5.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	6.20E-03	1.10E-02	J	7.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	6.20E+03	1.10E+02		7.50E+03	1.10E+02		6.30E+03	1.10E+02		3.90E+03	1.00E+02	
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+02	U	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-120			CA504-SB01-125			CA504-SB01-130			CA504-SB01-135		
DATE COLLECTED			February 7, 2013			February 7, 2013			July 9,2013			July 10,2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.40E-03	U	<	5.60E-03	U	<	5.30E+00	U	<	5.30E+00	U
Ethylbenzene	2.00E-02	20 / 164	1.30E-02	5.40E-03	J	2.00E-02	5.60E-03	J	4.40E-02	5.30E-03		1.60E-02	5.30E-03	
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	2.60E-02	1.10E-02	J	7.60E-02	1.10E-02	J	2.10E-01	1.10E-02		7.30E-02	1.10E-02	J
Naphthalene	4.30E-02	41 / 164	2.00E-02	5.40E-03	J	4.30E-02	5.60E-03	J	2.50E-02	5.30E-03		7.60E-03	5.30E-03	
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	6.30E-03	5.40E-03	J	3.50E-02	5.60E-03	J	1.20E-01	5.30E-03		4.20E-02	5.30E-03	J
Toluene	5.60E-03	18 / 164	<	5.40E-03	U	3.60E-03	5.60E-03	J	6.90E-03	5.30E-03		3.10E-03	5.30E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	7.10E-01	1.00E-02		5.30E-01	1.00E-02		1.40E+00	1.00E-02		1.10E+00	1.10E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	2.70E-02	1.00E-02		2.70E-02	1.00E-02		2.90E-02	1.00E-02		1.70E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	5.70E-03	1.00E-02	J	5.30E-03	1.00E-02	J	1.40E-02	1.00E-02		5.20E-03	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	8.70E-03	1.00E-02	J	7.90E-03	1.00E-02	J	1.80E-02	1.00E-02		6.70E-03	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.00E-02	U	<	1.00E-02	U	1.40E-02	1.00E-02		<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	4.40E-02	1.00E-02		4.30E-02	1.00E-02		4.10E-02	1.00E-02		3.30E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.00E-02	U	<	1.00E-02	U	7.60E-03	1.00E-02	J	3.00E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.00E-02	U	<	1.00E-02	U	8.20E-03	1.00E-02	J	3.30E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	4.40E+03	1.00E+02		4.30E+03	1.00E+02		2.80E+03	1.00E+01		2.50E+03	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-140			CA504-SB01-145			CA504-SB01-150			CA504-SB01-155		
DATE COLLECTED			July 10,2013			July 10,2013			July 10,2013			July 10,2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.40E+00	U	<	5.50E+00	UJ	<	5.70E+00	U	<	5.10E+00	U
Ethylbenzene	2.00E-02	20 / 164	4.10E-02	5.40E-03		8.40E-05	5.50E-06	J	1.00E-02	5.70E-03		8.40E-02	5.10E-03	
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	2.10E-01	1.10E-02		3.90E-01	1.10E-02	J	5.10E-02	1.10E-02		3.60E-01	1.00E-02	
Naphthalene	4.30E-02	41 / 164	2.10E-02	5.40E-03		1.40E-01	5.50E-03	J	1.50E-01	5.70E-03		6.00E-02	5.10E-03	
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	1.20E-01	5.40E-03		2.20E-01	5.50E-03	J	3.20E-02	5.70E-03		2.00E-01	5.10E-03	
Toluene	5.60E-03	18 / 164	4.30E-03	5.40E-03	J	1.10E-02	5.50E-03	J	<	5.70E-03	U	1.40E-02	5.10E-03	
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	1.50E+00	1.00E-02		6.90E+00	5.10E-02		6.00E+00	3.10E-02		5.60E+00	3.10E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	1.90E-02	1.00E-02		1.60E-02	1.00E-02		1.20E-02	1.00E-02		1.00E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	4.60E-03	1.00E-02	J	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	6.20E-03	1.00E-02	J	3.10E-03	1.00E-02	J	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164		1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	3.80E-02	1.00E-02		2.80E-02	1.00E-02		2.30E-02	1.00E-02		1.50E-02	1.00E-02	
Dibenz(a,h)anthracene	2.20E-01	20 / 164		1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	2.90E+03	1.00E+01		2.00E+03	1.00E+01		1.60E+03	1.00E+01		1.50E+03	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-160			CA504-SB01-165			CA504-SB01-170			CA504-SB01-175		
DATE COLLECTED			July 10,2013			July 10,2013			July 10,2013			July 10,2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.70E+00	UJ	<	5.80E+00	UJ	<	5.30E+00	UJ	<	5.10E+00	UJ
Ethylbenzene	2.00E-02	20 / 164	8.10E-02	5.70E-03	J	7.10E-02	5.80E-03	J	1.90E-01	5.30E-03	J	1.10E-01	5.10E-03	J
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	3.60E-01	1.10E-02	J	3.50E-01	1.20E-02	J	8.50E-01	1.10E-02	J	5.10E-01	1.00E-02	J
Naphthalene	4.30E-02	41 / 164	9.20E-02	5.70E-03	J	1.10E-01	5.80E-03	J	3.00E+00	2.70E-01	J	1.90E+00	2.80E-01	J
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	2.00E-01	5.70E-03	J	2.10E-01	5.80E-03	J	4.60E-01	5.30E-03	J	2.80E-01	5.10E-03	J
Toluene	5.60E-03	18 / 164	1.10E-02	5.70E-03	J	4.60E-03	5.80E-03	J	2.30E-02	5.30E-03	J	1.30E-02	5.10E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	5.20E+00	3.10E-02		4.90E+00	3.10E-02		5.40E+00	3.10E-02		3.30E+00	2.10E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	1.10E-02	1.00E-02		8.80E-03	1.00E-02	J	1.00E-02	1.00E-02	J	1.10E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.30E-02	1.00E-02		2.00E-02	1.00E-02		2.10E-02	1.00E-02		9.80E-03	1.00E-02	J
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	1.50E+03	1.00E+01		1.50E+03	1.00E+01		1.40E+03	1.00E+01		9.10E+02	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+01	U	<	2.00E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-180			CA504-SB01-185			CA504-SB01-190			CA504-SB01-195		
DATE COLLECTED			July 10,2013			July 10,2013			July 10,2013			July 10,2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.00E+00	UJ	<	5.00E+00	UJ	<	5.10E+00	UJ	<	5.50E+00	UJ
Ethylbenzene	2.00E-02	20 / 164	1.00E-01	5.00E-03	J	4.20E-02	5.00E-03	J	1.00E-01	5.10E-03	J	3.00E-02	5.50E-03	J
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	5.10E-01	1.00E-02	J	2.10E-01	1.00E-02	J	4.20E-01	1.00E-02	J	1.60E-01	1.10E-02	J
Naphthalene	4.30E-02	41 / 164	1.70E+00	2.60E-01	J	1.80E+00	2.50E-01	J	3.30E+00	2.30E-01	J	1.90E+00	2.60E-01	J
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	2.80E-01	5.00E-03	J	1.20E-01	5.00E-03	J	2.30E-01	5.10E-03	J	9.90E-02	5.50E-03	J
Toluene	5.60E-03	18 / 164	1.00E-02	5.00E-03	J	6.40E-03	5.00E-03	J	3.70E-02	5.10E-03	J	<	5.50E-03	UJ
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	3.60E+00	3.10E-02		2.70E+00	1.00E-02		3.80E+00	2.00E-02		3.40E+00	1.00E-02	
Benzo(a)anthracene	4.80E+00	86 / 164	1.00E-02	1.00E-02		1.10E-02	1.00E-02		1.20E-02	1.00E-02		1.10E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.10E-02	1.00E-02		1.00E-02	1.00E-02		9.70E-03	1.00E-02	J	9.00E-03	1.00E-02	J
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	1.10E+03	1.00E+01		8.80E+02	1.00E+01		1.10E+03	1.00E+01		9.30E+02	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+01	U	<	2.00E+01	U	<	2.00E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-200			CA504-SB01-205			CA504-SB01-210			CA504-SB01-215		
DATE COLLECTED			July 10,2013			July 10,2013			July 10,2013			July 10,2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.80E+00	UJ	<	5.10E+00	UJ	<	5.00E+00	UJ	<	4.80E+00	U
Ethylbenzene	2.00E-02	20 / 164	2.00E-02	5.80E-03	J	1.40E-02	5.10E-03	J	2.50E-02	5.00E-03	J	<	4.80E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	1.10E-01	1.20E-02	J	7.90E-02	1.00E-02	J	1.30E-01	1.00E-02	J	<	9.50E-03	U
Naphthalene	4.30E-02	41 / 164	1.70E+00	2.50E-01	J	1.70E+00	2.60E-01	J	1.70E+00	2.60E-01	J	1.30E-02	4.80E-03	
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	7.30E-02	5.80E-03	J	5.40E-02	5.10E-03	J	8.20E-02	5.00E-03	J	<	4.80E-03	U
Toluene	5.60E-03	18 / 164	<	5.80E+00	UJ	2.10E-03	5.10E-03	J	2.20E-03	5.00E-03	J	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	3.50E+00	2.10E-02		3.30E+00	1.00E-02		2.20E+00	1.00E-02		<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.30E-02	1.00E-02		1.30E-02	1.00E-02		9.80E-03	1.00E-02	J	<	1.00E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	1.00E-02	1.00E-02	J	8.30E-03	1.00E-02	J	6.40E-03	1.00E-02	J	<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	9.60E+02	1.00E+01		9.60E+02	1.00E+01		7.80E+02	1.00E+01		8.70E+00	1.00E+01	J
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-220			CA504-SB01-225			CA504-SB01-230			CA504-SB01-235		
DATE COLLECTED			July 10,2013			July 10,2013			July 11, 2013			July 11, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	4.60E+00	U	<	5.10E+00	U	<	5.10E+00	U	<	4.90E+00	U
Ethylbenzene	2.00E-02	20 / 164	<	4.60E-03	U	<	5.10E-03	U	<	5.10E-03	U	<	4.90E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	9.20E-03	U	<	1.00E-02	U	<	1.00E-02	U	<	9.80E-03	U
Naphthalene	4.30E-02	41 / 164	2.60E-02	4.60E-03		6.30E-03	5.10E-03		1.10E-02	5.10E-03		7.00E-03	4.90E-03	
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	4.60E-03	U	<	5.10E-03	U	<	5.10E-03	U	<	4.90E-03	U
Toluene	5.60E-03	18 / 164	<	4.60E-03	U	<	5.10E-03	U	<	5.10E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	9.40E-03	1.00E-02	J	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	3.30E+01	1.00E+01		7.40E+00	1.00E+01	J	5.10E+00	1.10E+01	J	3.50E+00	1.00E+01	J
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-240			CA504-SB01-245			CA504-SB01-250			CA504-SB01-255		
DATE COLLECTED			July 11, 2013			July 11, 2013			July 11, 2013			July 11, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	6.40E+00	U	<	5.20E+00	U	<	5.00E+00	U	<	5.20E+00	U
Ethylbenzene	2.00E-02	20 / 164	<	6.40E-03	U	<	5.20E-03	U	<	5.00E-03	U	<	5.20E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.30E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Naphthalene	4.30E-02	41 / 164	5.70E-03	6.40E-03	J	3.20E-03	5.20E-03	J	<	5.00E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	6.40E-03	U	<	5.20E-03	U	<	5.00E-03	U	<	5.20E-03	U
Toluene	5.60E-03	18 / 164	<	6.40E-03	U	<	5.20E-03	U	<	5.00E-03	U	<	5.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	3.10E+00	1.00E+01	J	<	1.00E+01	U	<	1.00E+01	U	<	1.00E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB01-260			CA504-SB01-265			CA504-SB01-270			CA504-SB01-275		
DATE COLLECTED			July 11, 2013			July 11, 2013			July 11, 2013			July 11, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	4.40E+00	U	<	5.30E+00	U	<	5.10E+00	U	<	5.00E+00	U
Ethylbenzene	2.00E-02	20 / 164	<	4.40E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	8.90E-03	U	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Naphthalene	4.30E-02	41 / 164	#VALUE!	4.40E-03		<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	4.40E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U
Toluene	5.60E-03	18 / 164	<	4.40E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	5.70E-03	1.10E-02	J	6.60E-03	1.10E-02	J	<	1.10E-02	U	3.10E-03	1.00E-02	J
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	4.10E+00	1.10E+01	J	3.10E+00	1.10E+01	J	<	1.10E+01	U	<	1.00E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+01	U	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB02-005			CA504-SB02-010			CA504-SB02-015			CA504-SB02-020		
DATE COLLECTED			February 7, 2013			February 7, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.60E-03	U	<	6.30E-03	U	<	6.30E-03	U	<	5.60E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.60E-03	U	<	6.30E-03	U	<	6.30E-03	U	<	5.60E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	1.30E-02	U	<	1.30E-02	U	<	1.10E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.60E-03	U	<	6.30E-03	U	<	6.30E-03	U	<	5.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.60E-03	U	<	6.30E-03	U	<	6.30E-03	U	<	5.60E-03	U
Toluene	5.60E-03	18 / 164	<	5.60E-03	U	<	6.30E-03	U	<	6.30E-03	U	<	5.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	6.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	5.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	5.50E-03	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	8.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	9.10E-03	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	4.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	1.40E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	3.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	4.10E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	7.60E+00	1.10E+01	J	9.50E+00	1.10E+01	J	<	1.10E+01	U	1.90E+02	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	1.80E+01	2.10E+01	J	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB02-025			CA504-SB02-030			CA504-SB02-035			CA504-SB02-040		
DATE COLLECTED			February 7, 2013			February 7, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	7.30E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	5.50E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	7.30E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	5.50E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.50E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	4.30E-02	41 / 164	<	7.30E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	5.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	7.30E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	5.50E-03	U
Toluene	5.60E-03	18 / 164	<	7.30E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	5.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	1.00E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	3.10E-02	1.10E-02		4.60E-02	1.10E-02		4.60E-02	1.10E-02		1.60E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.50E-02	1.10E-02		2.40E-02	1.10E-02		2.60E-02	1.10E-02		1.40E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.90E-02	1.10E-02		2.90E-02	1.10E-02		2.80E-02	1.10E-02		1.50E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	5.60E-03	1.10E-02	J	9.30E-03	1.10E-02	J	8.40E-03	1.10E-02	J	3.90E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	4.20E-02	1.10E-02		3.30E-02	1.10E-02		5.60E-02	1.10E-02		2.00E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	3.40E-03	1.10E-02	J	4.90E-03	1.10E-02	J	4.50E-03	1.10E-02	J	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	2.10E+03	1.10E+01		3.10E+03	1.10E+01		4.50E+03	1.10E+02		3.80E+03	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	5.40E+00	2.20E+01	J	5.30E+00	2.10E+01	J	<	2.10E+02	U	<	2.20E+02	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB02-045			CA504-SB02-050			CA504-SB02-055			CA504-SB02-060		
DATE COLLECTED			February 8, 2013			February 8, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	6.10E-03	U	<	5.50E-03	U	<	4.90E-03	U	<	5.30E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	6.10E-03	U	<	5.50E-03	U	<	4.90E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.20E-02	U	<	1.10E-02	U	5.50E-03	9.80E-03	J	<	1.10E-02	U
Naphthalene	4.30E-02	41 / 164	4.50E-03	6.10E-03	J	6.30E-03	5.50E-03	J	1.20E-02	4.90E-03	J	4.40E-03	5.30E-03	J
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	6.10E-03	U	<	5.50E-03	U	4.60E-03	4.90E-03	J	<	5.30E-03	U
Toluene	5.60E-03	18 / 164	<	6.10E-03	U	<	5.50E-03	U	<	4.90E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	2.60E-02	1.10E-02		3.70E-02	1.10E-02		3.70E-02	1.10E-02		2.70E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.50E-02	1.10E-02		1.20E-02	1.10E-02		1.60E-02	1.10E-02		1.20E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.60E-02	1.10E-02		1.20E-02	1.10E-02		1.30E-02	1.10E-02		9.40E-03	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	3.30E-03	1.10E-02	J	<	1.10E-02	U	2.80E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	3.20E-02	1.10E-02		3.60E-02	1.10E-02		8.40E-02	1.10E-02		6.90E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	6.30E+03	1.10E+02		6.20E+03	1.10E+02		8.70E+03	1.10E+02		6.90E+03	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB02-065			CA504-SB02-070			CA504-SB02-075			CA504-SB02-080		
DATE COLLECTED			February 8, 2013			February 8, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.00E-03	U	<	5.10E-03	U	<	5.90E-03	U	<	5.20E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.00E-03	U	<	5.10E-03	U	<	5.90E-03	U	<	5.20E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.20E-02	U	<	1.00E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.00E-03	U	<	5.10E-03	U	<	5.90E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.00E-03	U	<	5.10E-03	U	<	5.90E-03	U	<	5.20E-03	U
Toluene	5.60E-03	18 / 164	<	5.00E-03	U	<	5.10E-03	U	<	5.90E-03	U	<	5.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	2.80E-02	1.10E-02		2.60E-02	1.00E-02		2.30E-02	1.10E-02		2.10E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	7.80E-03	1.10E-02	J	6.40E-03	1.00E-02	J	4.60E-03	1.10E-02	J	4.00E-03	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	5.20E-03	1.10E-02	J	3.70E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	5.30E+03	1.10E+02		5.70E+03	1.00E+02		4.90E+03	1.10E+02		4.40E+03	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U	<	2.10E+02	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB02-085			CA504-SB03-005			CA504-SB03-010			CA504-SB03-015		
DATE COLLECTED			February 8, 2013			February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.50E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	5.40E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.50E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	9.90E-03	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.50E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.50E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	5.40E-03	U
Toluene	5.60E-03	18 / 164	<	5.50E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	2.10E-02	1.10E-02		6.90E-03	1.00E-02	J	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	7.00E-03	1.00E-02	J	<	1.00E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	7.00E-03	1.00E-02	J	<	1.00E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	5.10E-03	1.00E-02	J	<	1.00E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	4.60E-03	1.00E-02	J	<	1.00E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	3.20E+03	1.10E+02		<	1.00E+01	U	<	1.00E+01	U	5.40E+00	1.10E+01	J
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+02	U	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB03-020			CA504-SB03-025			CA504-SB03-030			CA504-SB03-035		
DATE COLLECTED			February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	6.20E-03	U	<	6.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	6.20E-03	U	<	6.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.20E-02	U	<	1.30E-02	U	<	1.00E-02	U	<	1.20E-02	U
Naphthalene	4.30E-02	41 / 164	<	6.20E-03	U	<	6.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	6.20E-03	U	<	6.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
Toluene	5.60E-03	18 / 164	<	6.20E-03	U	<	6.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	3.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	4.30E-03	1.10E-02	J	<	1.10E-02	U	1.50E-02	1.10E-02		2.50E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	1.20E-02	1.10E-02		1.20E-02	1.10E-02		1.80E-02	1.10E-02		1.30E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	2.10E-02	1.10E-02		2.30E-02	1.10E-02		2.40E-02	1.10E-02		1.80E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	4.20E-03	1.10E-02	J	4.30E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	2.30E-02	1.10E-02		4.00E-02	1.10E-02		4.30E-02	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	7.40E-02	1.10E-02		1.30E-02	1.10E-02		6.90E-03	1.10E-02	J	6.00E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	8.20E+02	1.10E+01		8.40E+02	1.10E+01		2.50E+03	1.10E+01		2.40E+03	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	8.70E+00	2.20E+01	J	9.30E+00	2.30E+01	J	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB03-040			CA504-SB03-045			CA504-SB03-050			CA504-SB03-052		
DATE COLLECTED			February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	8.00E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	6.50E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	8.00E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	6.50E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.60E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Naphthalene	4.30E-02	41 / 164	<	8.00E-03	U	<	5.60E-03	U	2.50E-03	5.30E-03	J	<	6.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	8.00E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	6.50E-03	U
Toluene	5.60E-03	18 / 164	<	8.00E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	6.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	4.00E-02	1.10E-02		5.10E-02	1.10E-02		1.10E-01	1.10E-02		1.10E-01	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	2.50E-02	1.10E-02		3.70E-02	1.10E-02		4.70E-02	1.10E-02		4.40E-02	1.10E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	3.80E-02	1.10E-02		6.00E-02	1.10E-02		7.00E-02	1.10E-02		6.50E-02	1.10E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	8.50E-03	1.10E-02	J	1.30E-02	1.10E-02		1.70E-02	1.10E-02		1.50E-02	1.10E-02	
Chrysene	4.60E+00	72 / 164	6.80E-02	1.10E-02		7.90E-02	1.10E-02		1.40E-01	1.10E-02		1.30E-01	1.10E-02	
Dibenz(a,h)anthracene	2.20E-01	20 / 164	5.80E-03	1.10E-02	J	6.60E-03	1.10E-02	J	7.50E-03	1.10E-02	J	7.10E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	9.50E-03	1.10E-02	J	1.30E-02	1.10E-02		1.50E-02	1.10E-02		1.30E-02	1.10E-02	
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	5.10E+03	1.10E+02		6.40E+03	1.10E+02		8.70E+03	1.10E+02		8.20E+03	1.10E+02	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+02	U	<	2.20E+02	U	<	2.10E+02	U	<	2.20E+02	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB04-005			CA504-SB04-010			CA504-SB04-015			CA504-SB04-020		
DATE COLLECTED			February 10, 2013			February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	6.90E-03	U	<	7.20E-03	U	<	5.30E-03	U	<	4.90E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	6.90E-03	U	<	7.20E-03	U	<	5.30E-03	U	<	4.90E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.40E-02	U	<	1.40E-02	U	<	1.10E-02	U	<	9.70E-03	U
Naphthalene	4.30E-02	41 / 164	<	6.90E-03	U	<	7.20E-03	U	<	5.30E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	6.90E-03	U	<	7.20E-03	U	<	5.30E-03	U	<	4.90E-03	U
Toluene	5.60E-03	18 / 164	<	6.90E-03	U	<	7.20E-03	U	<	5.30E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	6.60E+01	2.20E+01		<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB04-025			CA504-SB04-030			CA504-SB04-035			CA504-SB04-040		
DATE COLLECTED			February 10, 2013			February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.70E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	7.10E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.70E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	7.10E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.40E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.70E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	7.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.70E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	7.10E-03	U
Toluene	5.60E-03	18 / 164	<	5.70E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	7.10E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	1.10E-02	J	3.30E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	2.40E-02	1.10E-02	J	5.20E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	5.30E-03	1.10E-02	J	1.60E-02	1.10E-02	J
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	5.40E-02	1.10E-02	J	8.20E-02	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	5.80E-03	1.10E-02	J	7.90E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	2.00E+01	1.10E+01		7.00E+02	1.10E+01		3.70E+03	5.30E+01		5.00E+03	5.30E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+01	U	<	2.10E+01	U	<	1.10E+02	U	<	1.10E+02	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB04-045			CA504-SB04-050			CA504-SB05-005			CA504-SB05-010		
DATE COLLECTED			February 10, 2013			February 10, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.70E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	6.80E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.70E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	6.80E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.40E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.70E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	6.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.70E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	6.80E-03	U
Toluene	5.60E-03	18 / 164	<	5.70E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	6.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	2.60E-02	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	1.80E-02	1.10E-02	J	2.20E-02	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	2.40E-02	1.10E-02	J	3.30E-02	1.10E-02	J	2.80E-03	1.10E-02	J	<	1.20E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	8.60E-03	1.10E-02	J	9.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U
Chrysene	4.60E+00	72 / 164	6.00E-02	1.10E-02	J	7.40E-02	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	5.80E-03	1.10E-02	J	4.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	3.80E+03	5.40E+01		5.20E+03	5.30E+01		<	1.10E+01	U	<	1.20E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	1.10E+02	U	<	1.10E+02	U	<	2.10E+01	U	<	2.30E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB05-015			CA504-SB05-020			CA504-SB05-025			CA504-SB06-005		
DATE COLLECTED			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	6.30E-03	U	<	6.60E-03	U	<	5.50E-03	U	<	5.30E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	6.30E-03	U	<	6.60E-03	U	<	5.50E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.30E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	4.30E-02	41 / 164	<	6.30E-03	U	<	6.60E-03	U	<	5.50E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	6.30E-03	U	<	6.60E-03	U	<	5.50E-03	U	<	5.30E-03	U
Toluene	5.60E-03	18 / 164	<	6.30E-03	U	<	6.60E-03	U	<	5.50E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.50E-02	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.10E-02	1.00E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.50E-02	1.00E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	4.80E-03	1.00E-02	J
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.20E-02	1.00E-02	
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	4.70E-03	1.10E-02	J	6.00E-03	1.00E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	<	1.10E+01	U	<	1.10E+01	U	3.10E+01	1.10E+01		1.40E+01	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	1.00E+02	2.10E+01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB06-010			CA504-SB06-015			CA504-SB06-020			CA504-SB06-025		
DATE COLLECTED			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.20E-03	U	<	5.90E-03	U	<	5.90E-03	U	<	5.50E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.20E-03	U	<	5.90E-03	U	<	5.90E-03	U	<	5.50E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.00E-02	U	<	1.20E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.20E-03	U	<	5.90E-03	U	<	5.90E-03	U	<	5.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.20E-03	U	<	5.90E-03	U	<	5.90E-03	U	<	5.50E-03	U
Toluene	5.60E-03	18 / 164	<	5.20E-03	U	<	5.90E-03	U	<	5.90E-03	U	<	5.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB07-005		
DATE COLLECTED			February 12, 2013		
	Maximum	Frequency	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)					
Benzene	ND	0 / 164	<	6.60E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	6.60E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.30E-02	U
Naphthalene	4.30E-02	41 / 164	<	6.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	6.60E-03	U
Toluene	5.60E-03	18 / 164	<	6.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)					
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	1.20E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	8.70E-03	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.00E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	3.70E-03	1.10E-02	J
Chrysene	4.60E+00	72 / 164	1.00E-02	1.10E-02	J
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	5.20E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)					
Diesel Range Organics	8.70E+03	108 / 164	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB07-010			CA504-SB07-015			CA504-SB07-020		
DATE COLLECTED			February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
Benzene	ND	0 / 164	<	4.80E-03	U	<	6.30E-03	U	<	5.90E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	4.80E-03	U	<	6.30E-03	U	<	5.90E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	9.70E-03	U	<	1.30E-02	U	<	1.20E-02	U
Naphthalene	4.30E-02	41 / 164	<	4.80E-03	U	<	6.30E-03	U	<	5.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	4.80E-03	U	<	6.30E-03	U	<	5.90E-03	U
Toluene	5.60E-03	18 / 164	<	4.80E-03	U	<	6.30E-03	U	<	5.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	8.70E+03	108 / 164	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB07-025			CA504-SB08-005			CA504-SB08-010			CA504-SB08-015		
DATE COLLECTED			February 12, 2013			February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.50E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.50E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.50E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.50E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U
Toluene	5.60E-03	18 / 164	5.60E-03	5.50E-03		<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	4.90E-03	1.00E-02	J	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	4.80E+00	5.10E-02		6.60E-02	1.00E-02	J	1.60E+00	1.00E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	2.10E+00	1.00E-02		2.00E-02	1.00E-02	J	7.00E-01	1.00E-02	
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	3.40E+00	5.10E-02		1.40E-01	1.00E-02	J	1.20E+00	1.00E-02	
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	9.40E-01	1.00E-02		3.10E-02	1.00E-02	J	5.30E-01	1.00E-02	
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	4.60E+00	5.10E-02		2.90E-01	1.00E-02	J	1.50E+00	1.00E-02	
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	2.20E-01	1.00E-02		<	1.00E-02	U	7.50E-02	1.00E-02	
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	7.00E-01	1.00E-02		1.10E-02	1.00E-02	J	2.40E-01	1.00E-02	
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	1.10E+01	1.10E+01		2.20E+01	1.00E+01		3.05E+03	2.10E+01		6.20E+02	1.00E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+01	U	4.60E+01	2.00E+01		1.20E+01	4.20E+01	J	3.30E+01	2.10E+01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB08-020			CA504-SB08-025			CA504-SB09-005			CA504-SB09-010		
DATE COLLECTED			February 10, 2013			February 10, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	6.50E-03	U	<	5.80E-03	U	<	5.10E-03	U	<	5.40E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	6.50E-03	U	<	5.80E-03	U	<	5.10E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.30E-02	U	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	4.30E-02	41 / 164	<	6.50E-03	U	<	5.80E-03	U	<	5.10E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	6.50E-03	U	<	5.80E-03	U	<	5.10E-03	U	<	5.40E-03	U
Toluene	5.60E-03	18 / 164	<	6.50E-03	U	<	5.80E-03	U	<	5.10E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	2.30E-02	1.10E-02		2.00E-02	1.10E-02		6.70E-03	1.00E-02	J	<	1.00E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	7.90E-03	1.10E-02	J	7.10E-03	1.10E-02	J	3.50E-03	1.00E-02	J	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	1.40E-02	1.10E-02		1.20E-02	1.10E-02		6.70E-03	1.00E-02	J	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	5.40E-03	1.10E-02	J	4.80E-03	1.10E-02	J	<	1.00E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	2.60E-02	1.10E-02		2.40E-02	1.10E-02		5.60E-03	1.00E-02	J	<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	3.60E-02	1.10E-02		4.40E-02	1.10E-02		<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	1.90E+02	1.10E+01		2.20E+02	1.10E+01		<	1.00E+01	U	<	1.00E+01	U
Oil Range Organics	1.00E+02	24 / 164	6.80E+00	2.30E+01	J	<	2.30E+01	U	8.60E+00	2.10E+01	J	8.80E+00	2.10E+01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB09-015			CA504-SB09-020			CA504-SB09-025			CA504-SB10-005		
DATE COLLECTED			February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	6.60E-03	U	<	7.70E-03	U	<	5.50E-03	U	<	6.40E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	6.60E-03	U	<	7.70E-03	U	<	5.50E-03	U	<	6.40E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.30E-02	U	<	1.50E-02	U	<	1.10E-02	U	<	1.30E-02	U
Naphthalene	4.30E-02	41 / 164	<	6.60E-03	U	<	7.70E-03	U	<	5.50E-03	U	<	6.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	6.60E-03	U	<	7.70E-03	U	<	5.50E-03	U	<	6.40E-03	U
Toluene	5.60E-03	18 / 164	<	6.60E-03	U	<	7.70E-03	U	<	5.50E-03	U	3.80E-03	6.40E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	<	1.10E+01	U	5.90E+00	1.10E+01	J	<	1.10E+01	U	<	1.00E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U	5.90E+00	2.10E+01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB10-010			CA504-SB10-015			CA504-SB10-020			CA504-SB10-025		
DATE COLLECTED			February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.20E-03	U	<	5.20E-03	U	<	6.20E-03	U	<	6.50E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.20E-03	U	<	5.20E-03	U	<	6.20E-03	U	<	6.50E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.20E-02	U	<	1.30E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.20E-03	U	<	5.20E-03	U	<	6.20E-03	U	<	6.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.20E-03	U	<	5.20E-03	U	<	6.20E-03	U	<	6.50E-03	U
Toluene	5.60E-03	18 / 164	<	5.20E-03	U	<	5.20E-03	U	<	6.20E-03	U	<	6.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.00E-02	U	<	1.00E-02	U	1.80E-02	1.10E-02	J	8.90E-02	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	3.50E-02	1.10E-02	J	5.80E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.00E-02	U	<	1.00E-02	U	4.50E-02	1.10E-02	J	1.50E-01	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.00E-02	U	<	1.00E-02	U	1.70E-01	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.00E-02	U	<	1.00E-02	U	2.20E-02	1.10E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.00E-02	U	<	1.00E-02	U	1.00E-01	1.10E-02	J	4.30E-02	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	<	1.00E+01	U	<	1.00E+01	U	1.40E+03	1.10E+01		1.50E+03	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+01	U	5.70E+00	2.10E+01	J	1.90E+01	2.20E+01	J	1.60E+01	2.20E+01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB10-030			CA504-SB10-035			CA504-SB10-040			CA504-SB10-045		
DATE COLLECTED			February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.50E-03	U	<	5.40E-03	U	<	5.60E-03	U	<	6.20E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.50E-03	U	<	5.40E-03	U	<	5.60E-03	U	<	6.20E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.50E-03	U	<	5.40E-03	U	<	5.60E-03	U	<	6.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.50E-03	U	<	5.40E-03	U	<	5.60E-03	U	<	6.20E-03	U
Toluene	5.60E-03	18 / 164	<	5.50E-03	U	<	5.40E-03	U	<	5.60E-03	U	<	6.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	8.80E-02	1.10E-02	J	5.40E-02	1.10E-02	J	2.50E-02	1.10E-02	J	3.70E-02	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	7.70E-02	1.10E-02	J	3.90E-02	1.10E-02	J	1.10E-02	1.10E-02	J	1.50E-02	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	9.00E-02	1.10E-02	J	4.40E-02	1.10E-02	J	1.40E-02	1.10E-02	J	1.30E-02	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	7.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	3.10E-02	1.10E-02	J	2.30E-02	1.10E-02	J	7.50E-03	1.10E-02	J	7.40E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	2.70E+03	1.10E+01		2.10E+03	1.10E+01		1.60E+03	1.10E+01		1.90E+03	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	6.80E+00	2.20E+01	J	6.30E+00	2.10E+01	J	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB10-050			CA504-SB10-052			CA504-SB11-005			CA504-SB11-010		
DATE COLLECTED			February 11, 2013			February 11, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	6.60E-03	U	<	6.20E-03	U	<	4.80E-03	U	<	5.30E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	6.60E-03	U	<	6.20E-03	U	<	4.80E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.30E-02	U	<	1.20E-02	U	<	9.60E-03	U	<	1.10E-02	U
Naphthalene	4.30E-02	41 / 164	<	6.60E-03	U	<	6.20E-03	U	<	4.80E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	6.60E-03	U	<	6.20E-03	U	<	4.80E-03	U	<	5.30E-03	U
Toluene	5.60E-03	18 / 164	<	6.60E-03	U	<	6.20E-03	U	<	4.80E-03	U	2.40E-03	5.30E-03	J
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	3.20E-02	1.10E-02	J	<	1.10E-02	U	3.30E-03	1.10E-02	J
Benzo(a)pyrene	2.10E+00	76 / 164	1.90E-02	1.10E-02	J	1.00E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	3.00E-02	1.10E-02	J	1.10E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	6.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	6.30E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.10E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	5.80E-03	1.10E-02	J	4.50E-03	1.10E-02	J	<	1.10E-02	U	3.10E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	3.50E+03	2.10E+01		2.60E+03	1.10E+01		<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	4.30E+01	U	<	2.10E+01	U	<	2.30E+01	U	<	2.30E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB11-015			CA504-SB11-020			CA504-SB11-025			CA504-SB12-015		
DATE COLLECTED			February 8, 2013			February 8, 2013			February 8, 2013			February 14, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	6.20E-03	U	<	7.40E-03	U	<	5.50E-03	U	<	7.40E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	6.20E-03	U	<	7.40E-03	U	<	5.50E-03	U	<	7.40E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.20E-02	U	<	1.50E-02	U	<	1.10E-02	U	<	1.50E-02	U
Naphthalene	4.30E-02	41 / 164	<	6.20E-03	U	<	7.40E-03	U	<	5.50E-03	U	<	7.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	6.20E-03	U	<	7.40E-03	U	<	5.50E-03	U	<	7.40E-03	U
Toluene	5.60E-03	18 / 164	<	6.20E-03	U	<	7.40E-03	U	<	5.50E-03	U	<	7.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	4.90E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.20E+01	U
Oil Range Organics	1.00E+02	24 / 164	9.50E+00	2.10E+01	J	<	2.20E+01	U	<	2.20E+01	U	<	2.40E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB12-020			CA504-SB12-025			CA504-SB12-030			CA504-SB12-035		
DATE COLLECTED			February 14, 2013			February 14, 2013			February 14, 2013			February 14, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.90E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.80E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.90E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.80E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.20E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.90E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.90E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.80E-03	U
Toluene	5.60E-03	18 / 164	<	5.90E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	2.30E+01	U	<	2.20E+01	U	<	2.10E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB12-040			CA504-SB13-015			CA504-SB13-020			CA504-SB13-025		
DATE COLLECTED			February 14, 2013			February 14, 2013			February 14, 2013			February 14, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.60E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.00E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.60E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.00E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	9.90E-03	U
Naphthalene	4.30E-02	41 / 164	<	5.60E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.60E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.00E-03	U
Toluene	5.60E-03	18 / 164	<	5.60E-03	U	<	5.80E-03	U	<	5.70E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB13-030			CA504-SB13-035			CA504-SB13-040			CA504-SB14-015		
DATE COLLECTED			February 14, 2013			February 14, 2013			February 14, 2013			February 14, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.50E-03	U	<	6.20E-03	U	<	5.60E-03	U	<	6.30E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.50E-03	U	<	6.20E-03	U	<	5.60E-03	U	<	6.30E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.30E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.50E-03	U	<	6.20E-03	U	<	5.60E-03	U	<	6.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.50E-03	U	<	6.20E-03	U	<	5.60E-03	U	<	6.30E-03	U
Toluene	5.60E-03	18 / 164	<	5.50E-03	U	<	6.20E-03	U	<	5.60E-03	U	<	6.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	5.30E+00	1.10E+01	J	4.90E+00	1.10E+01	J	4.40E+00	1.10E+01	J	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	2.10E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB14-020			CA504-SB14-025			CA504-SB14-030			CA504-SB14-035		
DATE COLLECTED			February 14, 2013			February 14, 2013			February 14, 2013			February 14, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.40E-03	U	<	4.90E-03	U	<	5.70E-03	U	<	5.40E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.40E-03	U	<	4.90E-03	U	<	5.70E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	9.80E-03	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.40E-03	U	<	4.90E-03	U	<	5.70E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.40E-03	U	<	4.90E-03	U	<	5.70E-03	U	<	5.40E-03	U
Toluene	5.60E-03	18 / 164	<	5.40E-03	U	<	4.90E-03	U	<	5.70E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	1.20E-02	1.10E-02		1.90E-02	1.10E-02		2.30E-02	1.10E-02	
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	5.40E-03	1.10E-02	J	8.70E-03	1.10E-02	J
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	4.50E-03	1.10E-02	J	6.70E-03	1.10E-02	J
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.90E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	<	1.10E+01	U	2.40E+02	1.10E+01		1.40E+03	1.10E+01		3.10E+03	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.30E+01	U	<	2.20E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB14-040			CA504-SB14-045			CA504-SB14-047			CA504-SB15-015		
DATE COLLECTED			February 14, 2013			February 14, 2013			February 14, 2013			February 14, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.30E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	7.20E-03	U
Ethylbenzene	2.00E-02	20 / 164	<	5.30E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	7.20E-03	U
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.40E-02	U
Naphthalene	4.30E-02	41 / 164	<	5.30E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	7.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.30E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	7.20E-03	U
Toluene	5.60E-03	18 / 164	<	5.30E-03	U	<	5.60E-03	U	<	5.60E-03	U	<	7.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	2.50E-02	1.10E-02		2.60E-02	1.10E-02		2.80E-02	1.10E-02		<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	8.90E-03	1.10E-02	J	8.20E-03	1.10E-02	J	1.00E-02	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	6.00E-03	1.10E-02	J	5.60E-03	1.10E-02	J	8.20E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	4.70E-03	1.10E-02	J	5.00E-03	1.10E-02	J	4.00E-03	1.10E-02	J	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	4.30E+03	5.30E+01		5.10E+03	1.10E+02		5.70E+03	1.10E+02		<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	1.10E+02	U	<	2.20E+02	U	<	2.20E+02	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB15-020			CA504-SB15-024			CA504-SB16-015			CA504-SB16-020		
DATE COLLECTED			February 14, 2013			February 14, 2013			February 15, 2013			February 15, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	UJ	<	5.80E-03	UJ
Ethylbenzene	2.00E-02	20 / 164	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	UJ	<	5.80E-03	UJ
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	1.00E-02	U	<	1.10E-02	U	<	1.30E-02	UJ	<	1.20E-02	UJ
Naphthalene	4.30E-02	41 / 164	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	UJ	<	5.80E-03	UJ
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	UJ	<	5.80E-03	UJ
Toluene	5.60E-03	18 / 164	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	UJ	<	5.80E-03	UJ
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.30E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
HOSPITAL ABANDONED UST SITE (ST-CA504)

FIELD ID			CA504-SB16-025			CA504-SB16-030			CA504-SB16-035			CA504-SB16-040		
DATE COLLECTED			February 15, 2013			February 15, 2013			February 15, 2013			February 15, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)														
Benzene	ND	0 / 164	<	4.80E-03	UJ	<	6.00E-03	UJ	<	5.60E-03	UJ	<	5.70E-03	UJ
Ethylbenzene	2.00E-02	20 / 164	<	4.80E-03	UJ	<	6.00E-03	UJ	<	5.60E-03	UJ	<	5.70E-03	UJ
m,p-Xylene (sum of isomers)	7.60E-02	21 / 164	<	9.70E-03	UJ	<	1.20E-02	UJ	<	1.10E-02	UJ	<	1.10E-02	UJ
Naphthalene	4.30E-02	41 / 164	<	4.80E-03	UJ	<	6.00E-03	UJ	<	5.60E-03	UJ	<	5.70E-03	UJ
o-Xylene (1,2-Dimethylbenzene)	3.50E-02	20 / 164	<	4.80E-03	UJ	<	6.00E-03	UJ	<	5.60E-03	UJ	<	5.70E-03	UJ
Toluene	5.60E-03	18 / 164	<	4.80E-03	UJ	<	6.00E-03	UJ	<	5.60E-03	UJ	<	5.70E-03	UJ
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)														
2-Methylnaphthalene	7.10E-01	27 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	4.80E+00	86 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.10E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	3.40E+00	76 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	9.40E-01	42 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.60E+00	72 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.20E-01	20 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	7.00E-01	61 / 164	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)														
Diesel Range Organics	8.70E+03	108 / 164	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	3.00E+01	1.10E+01	
Oil Range Organics	1.00E+02	24 / 164	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB01-005			CA505-SB01-010			CA505-SB01-015		
DATE COLLECTED			April 16, 2013			April 16, 2013			April 17, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.10E+00	U	<	5.50E+00	U	<	5.80E+00	U
Ethylbenzene	ND	0 / 53	<	5.10E+00	U	<	5.50E+00	U	<	5.80E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.00E+01	U	<	1.10E+01	U	<	1.20E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.10E-03	U	<	5.50E-03	U	<	5.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.10E+00	U	<	5.50E+00	U	<	5.80E+00	U
Toluene	ND	0 / 53	<	5.10E+00	U	<	5.50E+00	U	<	5.80E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	UJ
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.00E+01	U	<	1.00E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB01-020			CA505-SB01-025			CA505-SB01-030		
DATE COLLECTED			April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.70E+00	U	<	6.00E+00	U	<	5.90E+00	U
Ethylbenzene	ND	0 / 53	<	5.70E+00	U	<	6.00E+00	U	<	5.90E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.10E+01	U	<	1.20E+01	U	<	1.20E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.70E-03	U	<	6.00E-03	U	<	5.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.70E+00	U	<	6.00E+00	U	<	5.90E+00	U
Toluene	ND	0 / 53	<	5.70E+00	U	<	6.00E+00	U	<	5.90E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	<	1.10E-02	UJ	<	1.10E-02	UJ	<	1.10E-02	UJ
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB02-005			CA505-SB02-010			CA505-SB02-015		
DATE COLLECTED			April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.10E+00	U	<	5.60E+00	U	<	5.50E+00	U
Ethylbenzene	ND	0 / 53	<	5.10E+00	U	<	5.60E+00	U	<	5.50E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.00E+01	U	<	1.10E+01	U	<	1.10E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.10E-03	U	<	5.60E-03	U	<	5.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.10E+00	U	<	5.60E+00	U	<	5.50E+00	U
Toluene	ND	0 / 53	<	5.10E+00	U	<	5.60E+00	U	<	5.50E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	1.20E-02	1.10E-02	J	4.70E-02	1.10E-02	J	<	1.10E-02	UJ
Benzo(a)pyrene	6.10E+00	19 / 53	1.10E-02	1.10E-02		3.90E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	1.70E-02	1.10E-02		5.40E-02	1.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	4.30E-03	1.10E-02	J	1.30E-02	1.10E-02		<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	1.10E-02	1.10E-02		5.30E-02	1.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	5.10E-03	1.10E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	6.20E-03	1.10E-02	J	1.80E-02	1.10E-02		<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	9.50E+02	1.10E+01		3.10E+02	1.10E+01	
Oil Range Hydrocarbons	1.30E+02	8 / 53	1.40E+01	2.10E+01	J	<	2.10E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB02-020			CA505-SB02-025			CA505-SB02-030		
DATE COLLECTED			April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	6.20E+00	U	<	6.00E+00	U	<	6.20E+00	U
Ethylbenzene	ND	0 / 53	<	6.20E+00	U	<	6.00E+00	U	<	6.20E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.20E+01	U	<	1.20E+01	U	<	1.20E+01	U
Naphthalene	4.60E-03	4 / 53	<	6.20E-03	U	<	6.00E-03	U	<	6.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	6.20E+00	U	<	6.00E+00	U	<	6.20E+00	U
Toluene	ND	0 / 53	<	6.20E+00	U	<	6.00E+00	U	<	6.20E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	6.90E-03	1.10E-02	J	5.80E-03	1.10E-02	J	2.10E-02	1.10E-02	J
Benzo(a)pyrene	6.10E+00	19 / 53	5.80E-03	1.10E-02	J	4.70E-03	1.10E-02	J	1.70E-02	1.10E-02	
Benzo(b)fluoranthene	7.70E+00	21 / 53	7.70E-03	1.10E-02	J	6.50E-03	1.10E-02	J	2.20E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.10E-02	U	<	1.10E-02	U	6.90E-03	1.10E-02	J
Chrysene	6.60E+00	18 / 53	6.60E-03	1.10E-02	J	4.70E-03	1.10E-02	J	2.00E-02	1.10E-02	
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	2.80E-03	1.10E-02	J	<	1.10E-02	U	8.00E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	<	1.10E+01	U	2.60E+01	1.10E+01	
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB03-005			CA505-SB03-010			CA505-SB03-015		
DATE COLLECTED			April 18, 2013			April 18, 2013			April 18, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.90E+00	U	<	5.30E+00	U	<	5.50E+00	U
Ethylbenzene	ND	0 / 53	<	5.90E+00	U	<	5.30E+00	U	<	5.50E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.90E-03	U	<	5.30E-03	U	<	5.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.90E+00	U	<	5.30E+00	U	<	5.50E+00	U
Toluene	ND	0 / 53	<	5.90E+00	U	<	5.30E+00	U	<	5.50E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	6.10E-02	1.10E-02		3.30E-02	1.10E-02		<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	4.90E-02	1.10E-02		2.70E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	8.10E-02	1.10E-02		3.80E-02	1.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	2.10E-02	1.10E-02		1.00E-02	1.10E-02	J	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	6.20E-02	1.10E-02		3.00E-02	1.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	8.00E-03	1.10E-02	J	4.00E-03	1.10E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	2.40E-02	1.10E-02		1.50E-02	1.10E-02		<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	2.20E+01	1.10E+01		2.30E+02	1.10E+01	
Oil Range Hydrocarbons	1.30E+02	8 / 53	9.80E+00	2.10E+01	J	1.40E+01	2.10E+01	J	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB03-020			CA505-SB03-025			CA505-SB03-030		
DATE COLLECTED			April 18, 2013			April 18, 2013			April 18, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.20E+00	U	<	6.10E+00	U	<	5.70E+00	U
Ethylbenzene	ND	0 / 53	<	5.20E+00	U	<	6.10E+00	U	<	5.70E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.00E+01	U	<	1.20E+01	U	<	1.10E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.20E-03	U	<	6.10E-03	U	<	5.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.20E+00	U	<	6.10E+00	U	<	5.70E+00	U
Toluene	ND	0 / 53	<	5.20E+00	U	<	6.10E+00	U	<	5.70E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	<	1.10E-02	U	4.90E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.10E-02	U	3.60E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	<	1.10E-02	U	5.00E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	<	1.10E-02	U	4.20E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	5.90E+00	1.10E+01	J	7.30E+00	1.10E+01	J	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB04-004			CA505-SB04-009			CA505-SB04-014		
DATE COLLECTED			April 16, 2013			April 16, 2013			April 16, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.00E+00	U	<	5.30E+00	U	<	6.00E+00	U
Ethylbenzene	ND	0 / 53	<	5.00E+00	U	<	5.30E+00	U	<	6.00E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.00E+01	U	<	1.10E+01	U	<	1.20E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.00E-03	U	<	5.30E-03	U	<	6.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.00E+00	U	<	5.30E+00	U	<	6.00E+00	U
Toluene	ND	0 / 53	<	5.00E+00	U	<	5.30E+00	U	<	6.00E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.00E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB04-020			CA505-SB04-025			CA505-SB05-005		
DATE COLLECTED			April 16, 2013			April 16, 2013			April 18, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.70E+00	U	<	5.60E+00	U	<	5.20E+00	U
Ethylbenzene	ND	0 / 53	<	5.70E+00	U	<	5.60E+00	U	<	5.20E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.10E+01	U	<	1.10E+01	U	<	1.00E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.70E-03	U	<	5.60E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.70E+00	U	<	5.60E+00	U	<	5.20E+00	U
Toluene	ND	0 / 53	<	5.70E+00	U	<	5.60E+00	U	<	5.20E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.20E+01	U	<	2.20E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB05-010			CA505-SB05-015			CA505-SB05-020		
DATE COLLECTED			April 18, 2013			April 18, 2013			April 18, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.70E+00	U	<	5.20E+00	U	<	5.30E+00	U
Ethylbenzene	ND	0 / 53	<	5.70E+00	U	<	5.20E+00	U	<	5.30E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.10E+01	U	<	1.00E+01	U	<	1.10E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.70E-03	U	<	5.20E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.70E+00	U	<	5.20E+00	U	<	5.30E+00	U
Toluene	ND	0 / 53	<	5.70E+00	U	<	5.20E+00	U	<	5.30E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	3.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	3.20E-03	1.10E-02	J	<	1.10E-02	U	2.80E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	7.30E+00	1.10E+01	J	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.10E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB05-025			CA505-SB06-005			CA505-SB06-010		
DATE COLLECTED			April 18, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	6.40E+00	U	<	5.10E+00	U	<	5.20E+00	U
Ethylbenzene	ND	0 / 53	<	6.40E+00	U	<	5.10E+00	U	<	5.20E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.30E+01	U	<	1.00E+01	U	<	1.00E+01	U
Naphthalene	4.60E-03	4 / 53	<	6.40E-03	U	<	5.10E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	6.40E+00	U	<	5.10E+00	U	<	5.20E+00	U
Toluene	ND	0 / 53	<	6.40E+00	U	<	5.10E+00	U	<	5.20E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	<	1.10E-02	U	1.60E-02	1.00E-02	J	3.60E-02	1.10E-02	J
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.10E-02	U	1.50E-02	1.00E-02		3.60E-02	1.10E-02	
Benzo(b)fluoranthene	7.70E+00	21 / 53	<	1.10E-02	U	2.30E-02	1.00E-02		4.90E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.10E-02	U	6.10E-03	1.00E-02	J	1.30E-02	1.10E-02	
Chrysene	6.60E+00	18 / 53	<	1.10E-02	U	1.50E-02	1.00E-02		4.00E-02	1.10E-02	
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	<	1.00E-02	U	4.40E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.10E-02	U	7.00E-03	1.00E-02	J	1.50E-02	1.10E-02	
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	<	1.00E+01	U	5.10E+00	1.10E+01	J
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.20E+01	U	1.50E+01	2.10E+01	J	8.50E+00	2.10E+01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB06-015			CA505-SB06-020			CA505-SB06-025		
DATE COLLECTED			April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.20E+00	U	<	5.20E+00	U	<	6.40E+00	U
Ethylbenzene	ND	0 / 53	<	5.20E+00	U	<	5.20E+00	U	<	6.40E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.00E+01	U	<	1.00E+01	U	<	1.30E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.20E-03	U	<	5.20E-03	U	4.30E-03	6.40E-03	J
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.20E+00	U	<	5.20E+00	U	<	6.40E+00	U
Toluene	ND	0 / 53	<	5.20E+00	U	<	5.20E+00	U	<	6.40E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	<	1.10E-02	UJ	1.10E-02	1.10E-02	J	<	1.10E-02	UJ
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.10E-02	U	8.50E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	<	1.10E-02	U	1.10E-02	1.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.10E-02	U	4.10E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	<	1.10E-02	U	9.90E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.10E-02	U	4.10E-03	1.10E-02	J	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	1.90E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.10E+01	U	<	2.10E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB07-005			CA505-SB07-010			CA505-SB07-015		
DATE COLLECTED			April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.40E+00	U	<	4.70E+00	U	<	5.50E+00	U
Ethylbenzene	ND	0 / 53	<	5.40E+00	U	<	4.70E+00	U	<	5.50E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.10E+01	U	<	9.40E+00	U	<	1.10E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.40E-03	U	<	4.70E-03	U	<	5.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.40E+00	U	<	4.70E+00	U	<	5.50E+00	U
Toluene	ND	0 / 53	<	5.40E+00	U	<	4.70E+00	U	<	5.50E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	<	1.00E-02	UJ	<	1.00E-02	UJ	<	1.10E-02	UJ
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.00E+01	U	<	1.00E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.10E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB07-020			CA505-SB07-025			CA505-SB08-005		
DATE COLLECTED			April 17, 2013			April 17, 2013			April 18, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	6.70E+00	U	<	5.80E+00	U	<	5.70E+00	U
Ethylbenzene	ND	0 / 53	<	6.70E+00	U	<	5.80E+00	U	<	5.70E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.30E+01	U	<	1.20E+01	U	<	1.10E+01	U
Naphthalene	4.60E-03	4 / 53	<	6.70E-03	U	4.60E-03	5.80E-03	J	<	5.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	6.70E+00	U	<	5.80E+00	U	<	5.70E+00	U
Toluene	ND	0 / 53	<	6.70E+00	U	<	5.80E+00	U	<	5.70E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	1.50E+00	3.20E-02	J	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	<	1.10E-02	UJ	**7.30E+00**	3.20E-02	J	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.10E-02	U	**6.10E+00**	3.20E-02		<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	<	1.10E-02	U	**7.70E+00**	3.20E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.10E-02	U	1.90E+00	3.20E-02	J	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	<	1.10E-02	U	6.60E+00	3.20E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	**7.70E-01**	3.20E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.10E-02	U	**3.00E+00**	3.20E-02	J	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	1.50E+02	1.10E+01		<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.20E+01	U	1.30E+02	2.10E+01		7.30E+00	2.10E+01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB08-010			CA505-SB08-015			CA505-SB08-020		
DATE COLLECTED			April 18, 2013			April 18, 2013			April 18, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.80E+00	U	<	5.80E+00	U	<	5.80E+00	U
Ethylbenzene	ND	0 / 53	<	5.80E+00	U	<	5.80E+00	U	<	5.80E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.20E+01	U	<	1.20E+01	U	<	1.20E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.80E-03	U	<	5.80E-03	U	<	5.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.80E+00	U	<	5.80E+00	U	<	5.80E+00	U
Toluene	ND	0 / 53	<	5.80E+00	U	<	5.80E+00	U	<	5.80E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	5.70E-03	1.10E-02	J	<	1.10E-02	U	1.00E-02	1.10E-02	J
Benzo(a)pyrene	6.10E+00	19 / 53	4.10E-03	1.10E-02	J	<	1.10E-02	U	6.70E-03	1.10E-02	J
Benzo(b)fluoranthene	7.70E+00	21 / 53	5.20E-03	1.10E-02	J	<	1.10E-02	U	8.70E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.10E-02	U	<	1.10E-02	U	2.70E-03	1.10E-02	J
Chrysene	6.60E+00	18 / 53	5.10E-03	1.10E-02	J	<	1.10E-02	U	7.70E-03	1.10E-02	J
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.10E-02	U	<	1.10E-02	U	3.80E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.10E+01	U	<	2.20E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB08-025			CA505-SB09-005			CA505-SB09-009		
DATE COLLECTED			April 18, 2013			April 16, 2013			April 16, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	6.00E+00	U	<	5.30E+00	U	<	5.40E+00	U
Ethylbenzene	ND	0 / 53	<	6.00E+00	U	<	5.30E+00	U	<	5.40E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U
Naphthalene	4.60E-03	4 / 53	<	6.00E-03	U	<	5.30E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	6.00E+00	U	<	5.30E+00	U	<	5.40E+00	U
Toluene	ND	0 / 53	<	6.00E+00	U	<	5.30E+00	U	<	5.40E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Chrysene	6.60E+00	18 / 53	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	<	1.00E+01	U	<	1.00E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.20E+01	U	<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB09-014			CA505-SB09-019			CA505-SB09-025		
DATE COLLECTED			April 16, 2013			April 16, 2013			April 16, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	5.30E+00	U	<	5.60E+00	U	<	5.70E+00	U
Ethylbenzene	ND	0 / 53	<	5.30E+00	U	<	5.60E+00	U	<	5.70E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.30E-03	U	<	5.60E-03	U	<	5.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.30E+00	U	<	5.60E+00	U	<	5.70E+00	U
Toluene	ND	0 / 53	<	5.30E+00	U	<	5.60E+00	U	<	5.70E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	6.10E+00	19 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	7.70E+00	21 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	14 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	6.60E+00	18 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	7.70E-01	8 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.10E+01	U	<	2.10E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB10-005			CA505-SB10-010			CA505-SB10-015		
DATE COLLECTED			April 17, 2013			April 17, 2013			April 17, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)											
Benzene	ND	0 / 53	<	7.70E+00	U	<	5.30E+00	U	<	5.80E+00	U
Ethylbenzene	ND	0 / 53	<	7.70E+00	U	<	5.30E+00	U	<	5.80E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.50E+01	U	<	1.10E+01	U	<	1.20E+01	U
Naphthalene	4.60E-03	4 / 53	3.70E-03	7.70E-03	J	<	5.30E-03	U	<	5.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	7.70E+00	U	<	5.30E+00	U	<	5.80E+00	U
Toluene	ND	0 / 53	<	7.70E+00	U	<	5.30E+00	U	<	5.80E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)											
2-Methylnaphthalene	1.50E+00	3 / 53	1.20E-02	1.00E-02		<	1.10E-02	U	2.70E-03	1.10E-02	J
Benzo(a)anthracene	7.30E+00	20 / 53	6.30E-02	1.00E-02	J	2.70E-03	1.10E-02	J	1.20E-02	1.10E-02	J
Benzo(a)pyrene	6.10E+00	19 / 53	5.50E-02	1.00E-02		2.80E-03	1.10E-02	J	9.40E-03	1.10E-02	J
Benzo(b)fluoranthene	7.70E+00	21 / 53	7.20E-02	1.00E-02		3.80E-03	1.10E-02	J	1.30E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	14 / 53	1.90E-02	1.00E-02		<	1.10E-02	U	4.00E-03	1.10E-02	J
Chrysene	6.60E+00	18 / 53	6.30E-02	1.00E-02		<	1.10E-02	U	1.20E-02	1.10E-02	
Dibenz(a,h)anthracene	7.70E-01	8 / 53	7.40E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	2.80E-02	1.00E-02		<	1.10E-02	U	5.20E-03	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Hydrocarbons	9.50E+02	12 / 53	2.90E+01	1.00E+01		<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	3.70E+01	2.10E+01		<	2.10E+01	U	<	2.10E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FLIGHTLINE GENERATOR USTs SITE (ST-CA505)

FIELD ID			CA505-SB10-020			CA505-SB10-024		
DATE COLLECTED			April 17, 2013			April 17, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (µg/kg)								
Benzene	ND	0 / 53	<	5.30E+00	U	<	5.60E+00	U
Ethylbenzene	ND	0 / 53	<	5.30E+00	U	<	5.60E+00	U
m,p-Xylene (sum of isomers)	ND	0 / 53	<	1.10E+01	U	<	1.10E+01	U
Naphthalene	4.60E-03	4 / 53	<	5.30E-03	U	2.50E-03	5.60E-03	J
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 53	<	5.30E+00	U	<	5.60E+00	U
Toluene	ND	0 / 53	<	5.30E+00	U	<	5.60E+00	U
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)								
2-Methylnaphthalene	1.50E+00	3 / 53	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	7.30E+00	20 / 53	6.60E-03	1.10E-02	J	2.50E-02	1.10E-02	J
Benzo(a)pyrene	6.10E+00	19 / 53	5.40E-03	1.10E-02	J	1.90E-02	1.10E-02	
Benzo(b)fluoranthene	7.70E+00	21 / 53	6.60E-03	1.10E-02	J	2.60E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	14 / 53	4.20E-03	1.10E-02	J	7.50E-03	1.10E-02	J
Chrysene	6.60E+00	18 / 53	5.30E-03	1.10E-02	J	2.40E-02	1.10E-02	
Dibenz(a,h)anthracene	7.70E-01	8 / 53	4.00E-03	1.10E-02	J	3.10E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	3.00E+00	15 / 53	4.60E-03	1.10E-02	J	1.00E-02	1.10E-02	J
PETROLEUM HYDROCARBONS (mg/kg)								
Diesel Range Hydrocarbons	9.50E+02	12 / 53	<	1.10E+01	U	<	1.10E+01	U
Oil Range Hydrocarbons	1.30E+02	8 / 53	<	2.10E+01	U	<	2.20E+01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect
The calculation of detection frequency does not include results from reanalyzed samples.

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SS01-001			CA507-SB01-004			CA507-SB01-010			CA507-SB01-015			CA507-SS02-001			CA507-SB02-004			CA507-SB02-010			CA507-SB02-015		
DATE COLLECTED			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.40E-03	U	<	5.20E-03	U	<	4.90E-03	U	<	6.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.70E-03	U	<	5.10E-03	U
Ethylbenzene	ND	0 / 234	<	5.40E-03	U	<	5.20E-03	U	<	4.90E-03	U	<	6.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.70E-03	U	<	5.10E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.10E-02	U	<	1.00E-02	U	<	9.90E-03	U	<	1.30E-02	U	2.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	<	5.40E-03	U	<	5.20E-03	U	<	4.90E-03	U	<	6.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.70E-03	U	<	5.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.40E-03	U	<	5.20E-03	U	<	4.90E-03	U	<	6.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.70E-03	U	<	5.10E-03	U
Toluene	2.70E-03	1 / 234	<	5.40E-03	U	<	5.20E-03	U	<	4.90E-03	U	<	6.50E-03	U	<	5.40E-03	U	<	5.50E-03	U	<	5.70E-03	U	<	5.10E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.20E-02	3.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	5.30E-01	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.10E+00	3.10E-02		1.40E-01	1.10E-02		9.00E-02	1.10E-02		2.80E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	5.40E-01	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.30E+00	3.10E-02		1.40E-01	1.10E-02		8.90E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	8.50E-01	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	5.60E+00	3.10E-02		2.30E-01	1.10E-02		1.60E-01	1.10E-02		2.80E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	3.30E-01	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.90E+00	3.10E-02		8.30E-02	1.10E-02		4.70E-02	1.10E-02		<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	7.50E-01	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	4.20E+00	3.10E-02		2.10E-01	1.10E-02		1.40E-01	1.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	8.40E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	4.60E-01	3.10E-02		2.20E-02	1.10E-02		2.30E-02	1.10E-02		<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	3.40E-01	1.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.60E+00	3.10E-02		9.30E-02	1.10E-02		7.40E-02	1.10E-02		<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	2.20E-01	5.20E-02		<	5.50E-02	U	<	5.40E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	8.70E+00	1.00E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	6.70E+01	1.00E+01		<	1.10E+01	U	3.10E+00	1.10E+01	J	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.00E+00	U	<	1.10E+00	U	<	9.50E-01	U	<	1.10E+00	U	8.00E-01	1.10E+00	J	<	1.00E+00	U	<	9.90E-01	U	<	9.50E-01	U
Oil Range Organics	3.00E+02	65 / 234	3.70E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	1.90E+02	2.10E+01		7.10E+00	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	1.00E+01	5.14E-01		9.00E+00	5.30E-01		6.52E+00	5.49E-01		4.93E+00	5.41E-01		4.42E+01	5.19E-01		1.02E+01	5.43E-01		4.99E+00	5.29E-01		4.09E+00	5.43E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SS03-001			CA507-SB03-005			CA507-SB03-010			CA507-SB03-015			CA507-SS04-001			CA507-SB04-004			CA507-SB04-010			CA507-SB04-015		
DATE COLLECTED			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	4.30E-03	U	<	4.70E-03	U	<	5.70E-03	U	<	5.30E-03	U	<	6.50E-03	U	<	4.70E-03	U	<	5.60E-03	U	<	4.60E-03	U
Ethylbenzene	ND	0 / 234	<	4.30E-03	U	<	4.70E-03	U	<	5.70E-03	U	<	5.30E-03	U	<	6.50E-03	U	<	4.70E-03	U	<	5.60E-03	U	<	4.60E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	5.70E-03	8.50E-03	J	<	9.30E-03	U	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U	<	9.40E-03	U	<	1.10E-02	U	<	9.20E-03	U
Naphthalene	1.00E-02	1 / 234	<	4.30E-03	U	<	4.70E-03	U	<	5.70E-03	U	<	5.30E-03	U	<	6.50E-03	U	<	4.70E-03	U	<	5.60E-03	U	<	4.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	2.20E-03	4.30E-03	J	<	4.70E-03	U	<	5.70E-03	U	<	5.30E-03	U	<	6.50E-03	U	<	4.70E-03	U	<	5.60E-03	U	<	4.60E-03	U
Toluene	2.70E-03	1 / 234	<	4.30E-03	U	<	4.70E-03	U	<	5.70E-03	U	<	5.30E-03	U	<	6.50E-03	U	<	4.70E-03	U	<	5.60E-03	U	<	4.60E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	1.50E-02	3.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	6.50E-03	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	2.70E+00	3.20E-02		3.10E-01	1.10E-02		1.00E-02	1.10E-02	J	1.70E-01	1.10E-02		1.80E-01	2.10E-02	J	8.10E-03	1.10E-02	J	<	1.10E-02	U	4.60E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	2.70E+00	3.20E-02		3.10E-01	1.10E-02		9.60E-03	1.10E-02	J	1.40E-01	1.10E-02		2.60E-01	2.10E-02		1.40E-02	1.10E-02		<	1.10E-02	U	1.10E-02	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	3.80E+00	3.20E-02		4.90E-01	1.10E-02		1.70E-02	1.10E-02		2.10E-01	1.10E-02		5.10E-01	2.10E-02	J	2.40E-02	1.10E-02		3.50E-03	1.10E-02	J	1.60E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.70E+00	3.20E-02		1.70E-01	1.10E-02		5.60E-03	1.10E-02	J	7.70E-02	1.10E-02		1.40E-01	2.10E-02	J	6.00E-03	1.10E-02	J	<	1.10E-02	U	4.30E-03	1.10E-02	J
Chrysene	4.20E+00	71 / 234	3.10E+00	3.20E-02		4.20E-01	1.10E-02		1.60E-02	1.10E-02		2.00E-01	1.10E-02		2.60E-01	2.10E-02		9.30E-03	1.10E-02	J	<	1.10E-02	U	6.20E-03	1.10E-02	J
Dibenz(a,h)anthracene	4.60E-01	46 / 234	3.60E-01	3.20E-02		4.50E-02	1.10E-02		<	1.10E-02	U	2.40E-02	1.10E-02		4.90E-02	2.10E-02		5.60E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.40E+00	3.20E-02		1.80E-01	1.10E-02		7.70E-03	1.10E-02	J	9.90E-02	1.10E-02		1.90E-01	2.10E-02		1.40E-02	1.10E-02		<	1.10E-02	U	1.00E-02	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 234	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 234	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 234	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 234	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 234	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.50E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	1.90E-01	5.20E-02		<	5.40E-02	U	<	5.70E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	6.70E+01	1.10E+01		5.70E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	6.50E+00	1.00E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	5.00E-01	9.10E-01	J	<	9.20E-01	U	<	1.00E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	9.00E-01	U	<	9.90E-01	U	<	9.30E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.70E+02	2.20E+01		1.30E+01	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U	5.40E+01	2.10E+01		2.60E+01	2.20E+01		<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	6.25E+01	5.25E-01		4.74E+01	5.39E-01		5.09E+00	5.26E-01		6.72E+00	5.61E-01		1.09E+01	5.13E-01		9.70E+00	5.36E-01		5.27E+00	5.66E-01		4.95E+00	5.43E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SS05-001			CA507-SB05-005			CA507-SB05-010			CA507-SB05-015			CA507-SS06-001			CA507-SB06-005			CA507-SB06-010			CA507-SB06-015		
DATE COLLECTED			February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	4.80E-03	U	<	4.50E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	4.80E-03	U
Ethylbenzene	ND	0 / 234	<	4.80E-03	U	<	4.50E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	4.80E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	9.60E-03	U	<	8.90E-03	U	<	9.20E-03	U	<	9.80E-03	U	<	1.00E-02	U	<	9.10E-03	U	<	9.70E-03	U	<	9.60E-03	U
Naphthalene	1.00E-02	1 / 234	<	4.80E-03	U	<	4.50E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	4.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	4.80E-03	U	<	4.50E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	4.80E-03	U
Toluene	2.70E-03	1 / 234	<	4.80E-03	U	<	4.50E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	4.60E-03	U	<	4.90E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	1.30E-02	3.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.20E-02	3.20E-02	J	<	2.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	5.10E-01	3.10E-02		3.70E-02	1.10E-02		5.00E-03	1.10E-02	J	<	1.10E-02	U	3.30E-01	3.20E-02		9.90E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	7.00E-01	3.10E-02		5.40E-02	1.10E-02		9.30E-03	1.10E-02	J	<	1.10E-02	U	5.00E-01	3.20E-02		1.20E-01	2.10E-02		5.50E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.30E+00	3.10E-02		8.60E-02	1.10E-02		1.10E-02	1.10E-02	J	<	1.10E-02	U	9.90E-01	3.20E-02		1.90E-01	2.10E-02		3.50E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	3.40E-01	3.10E-02		2.60E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	2.40E-01	3.20E-02		5.90E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	7.00E-01	3.10E-02		4.80E-02	1.10E-02		5.40E-03	1.10E-02	J	<	1.10E-02	U	4.70E-01	3.20E-02		1.20E-01	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.20E-01	3.10E-02		1.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	1.10E-01	3.20E-02		2.40E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	4.90E-01	3.10E-02		3.60E-02	1.10E-02		7.10E-03	1.10E-02	J	<	1.10E-02	U	4.90E-01	3.20E-02		7.90E-02	2.10E-02		4.70E-03	1.10E-02	J	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.20E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 234	<	5.20E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 234	<	5.20E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 234	<	5.20E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 234	<	5.20E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 234	<	5.20E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1260	4.50E+00	36 / 234	1.10E+00	2.60E-01		3.80E-02	5.50E-02	J	<	5.70E-02	U	<	5.60E-02	U	4.40E-01	5.30E-02		<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	2.30E+01	1.00E+01		8.50E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	2.10E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	9.90E-01	U	<	1.20E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	1.30E+00	U	<	9.20E-01	U	<	1.10E+00	U	<	9.70E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.50E+02	2.10E+01		3.10E+01	2.20E+01		<	2.30E+01	U	<	2.20E+01	U	1.10E+02	2.10E+01		3.60E+01	2.10E+01		<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	2.54E+01	4.96E-01		7.04E+00	5.29E-01		5.25E+00	5.60E-01		5.58E+00	5.56E-01		3.29E+01	5.16E-01		7.16E+00	5.30E-01		4.83E+00	5.65E-01		5.94E+00	5.41E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SS07-001			CA507-SB07-005			CA507-SB07-008			CA507-SB07-015			CA507-SS08-001			CA507-SB08-005			CA507-SB08-010			CA507-SB08-013		
DATE COLLECTED			February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013			February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.50E-03	U	<	4.50E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	6.90E-03	U	<	4.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
Ethylbenzene	ND	0 / 234	<	5.50E-03	U	<	4.50E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	6.90E-03	U	<	4.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.10E-02	U	<	9.00E-03	U	<	9.90E-03	U	<	1.00E-02	U	<	1.40E-02	U	<	9.70E-03	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	<	5.50E-03	U	<	4.50E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	6.90E-03	U	<	4.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.50E-03	U	<	4.50E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	6.90E-03	U	<	4.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
Toluene	2.70E-03	1 / 234	<	5.50E-03	U	<	4.50E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	6.90E-03	U	<	4.80E-03	U	<	5.80E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	1.70E-02	3.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.30E+00	3.10E-02		8.20E-02	1.10E-02	J	5.20E-03	1.10E-02	J	6.70E-03	1.10E-02	J	1.00E-01	1.10E-02		6.70E-02	1.10E-02	J	7.10E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	1.60E+00	3.10E-02		8.10E-02	1.10E-02	J	8.80E-03	1.10E-02	J	1.00E-02	1.10E-02	J	1.20E-01	1.10E-02		8.60E-02	1.10E-02	J	9.40E-03	1.10E-02	J	5.70E-03	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	2.90E+00	3.10E-02		1.30E-01	1.10E-02		1.10E-02	1.10E-02		1.10E-02	1.10E-02	J	2.00E-01	1.10E-02		1.30E-01	1.10E-02	J	1.10E-02	1.10E-02		3.90E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	8.20E-01	3.10E-02		3.70E-02	1.10E-02		3.00E-03	1.10E-02	J	3.80E-03	1.10E-02	J	6.80E-02	1.10E-02		4.60E-02	1.10E-02	J	3.50E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	1.80E+00	3.10E-02		8.70E-02	1.10E-02		4.70E-03	1.10E-02	J	6.40E-03	1.10E-02	J	1.50E-01	1.10E-02		9.80E-02	1.10E-02	J	6.90E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	2.20E-01	3.10E-02		1.20E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	2.10E-02	1.10E-02		1.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	8.90E-01	3.10E-02		3.70E-02	1.10E-02		6.30E-03	1.10E-02	J	6.60E-03	1.10E-02	J	8.70E-02	1.10E-02		5.60E-02	1.10E-02	J	7.00E-03	1.10E-02	J	4.70E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1260	4.50E+00	36 / 234	4.90E-01	5.20E-02		<	5.40E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	3.30E+01	1.00E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	9.40E-01	U	<	9.90E-01	U	<	9.40E-01	U	<	8.80E-01	U	<	1.00E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.90E+02	2.10E+01		3.50E+01	2.20E+01		2.00E+01	2.30E+01	J	<	2.20E+01	U	1.70E+01	2.20E+01	J	2.40E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	3.66E+01	5.08E-01		7.49E+00	5.37E-01		6.38E+00	5.34E-01		6.27E+00	5.20E-01		8.44E+00	5.04E-01		7.11E+00	5.30E-01		5.23E+00	5.44E-01		6.06E+00	5.54E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SS09-001			CA507-SB09-004			CA507-SB09-010			CA507-SB09-015			CA507-SB10-005			CA507-SB10-010			CA507-SB10-015			CA507-SB11-005		
DATE COLLECTED			February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	6.20E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.30E-03	U
Ethylbenzene	ND	0 / 234	<	6.20E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.20E-02	U	<	9.90E-03	U	<	9.70E-03	U	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	<	6.20E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	6.20E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.30E-03	U
Toluene	2.70E-03	1 / 234	<	6.20E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.20E-03	U	<	5.30E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	4.90E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.00E-02	U	1.10E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	4.30E-03	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.00E-02	U	8.30E-03	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.00E-02	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.00E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.70E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1221	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1232	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1242	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1248	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1254	ND	0 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.20E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.00E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	2.10E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.10E+00	U	<	9.60E-01	U	<	1.00E+00	U	<	1.00E+00	U	<	1.10E+00	U	<	1.00E+00	U	<	9.80E-01	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.10E+01	U	3.70E+01	2.20E+01		<	2.20E+01	U	<	2.20E+01	U	9.40E+00	2.20E+01	J	<	2.30E+01	U	<	2.20E+01	U	3.10E+01	2.30E+01	
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	7.93E+00	5.10E-01		1.14E+01	5.25E-01		6.95E+00	5.61E-01		5.05E+00	5.57E-01		9.27E+00	5.62E-01		6.45E+00	5.54E-01		5.03E+00	5.50E-01		1.00E+01	5.24E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB11-010			CA507-SB11-015			CA507-SS12-001			CA507-SB12-004			CA507-SB12-010			CA507-SB12-015			CA507-SB12-020			CA507-SS13-001		
DATE COLLECTED			February 12, 2013			February 12, 2013			February 6, 2013			February 6, 2013			February 6, 2013			February 6, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.40E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	5.90E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	6.00E-03	U	<	5.40E-03	U
Ethylbenzene	ND	0 / 234	<	5.40E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	5.90E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	6.00E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.10E-02	U	<	1.10E-02	U	<	9.50E-03	U	<	1.20E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	<	5.40E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	5.90E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	6.00E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.40E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	5.90E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	6.00E-03	U	<	5.40E-03	U
Toluene	2.70E-03	1 / 234	<	5.40E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	5.90E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	6.00E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U	1.40E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	7.90E-02	1.00E-02	
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U	1.60E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	5.30E-03	1.10E-02	J	<	1.10E-02	U	9.50E-02	1.00E-02	
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U	2.80E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	3.60E-03	1.10E-02	J	<	1.10E-02	U	1.60E-01	1.00E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U	7.60E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	5.00E-02	1.00E-02	
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U	1.80E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.10E-01	1.00E-02	
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	2.60E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	3.70E-03	1.10E-02	J	<	1.10E-02	U	1.70E-02	1.00E-02	
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U	9.60E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	6.30E-02	1.00E-02	
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.20E-02	U
PCB-1221	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.20E-02	U
PCB-1232	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.20E-02	U
PCB-1242	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.20E-02	U
PCB-1248	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.20E-02	U
PCB-1254	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.20E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.70E-02	U	<	5.60E-02	U	9.50E-02	5.30E-02		<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	1.10E-01	5.20E-02	
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.00E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.00E+00	U	<	1.10E+00	U	<	9.30E-01	U	<	1.20E+00	U	<	1.20E+00	U	<	9.70E-01	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.30E+01	U	<	2.20E+01	U	1.60E+01	2.10E+01	J	1.80E+01	2.20E+01	J	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.10E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	5.60E+00	5.58E-01		4.01E+00	5.42E-01		6.72E+00	5.17E-01		1.46E+01	5.49E-01		6.38E+00	5.48E-01		4.40E+00	5.23E-01		6.20E+00	5.49E-01		5.81E+00	5.07E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB13-004			CA507-SB13-010			CA507-SB13-015			CA507-SB13-020			CA507-SS14-001			CA507-SB14-004			CA507-SB14-010			CA507-SB14-015		
DATE COLLECTED			February 6, 2013			February 6, 2013			February 6, 2013			February 6, 2013			February 8, 2013			February 8, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.80E-03	U	<	6.30E-03	U	<	5.00E-03	U	<	5.20E-03	U	<	6.60E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	4.90E-03	U
Ethylbenzene	ND	0 / 234	<	5.80E-03	U	<	6.30E-03	U	<	5.00E-03	U	<	5.20E-03	U	<	6.60E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	4.90E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.20E-02	U	<	1.30E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	9.80E-03	U
Naphthalene	1.00E-02	1 / 234	<	5.80E-03	U	<	6.30E-03	U	<	5.00E-03	U	<	5.20E-03	U	<	6.60E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.80E-03	U	<	6.30E-03	U	<	5.00E-03	U	<	5.20E-03	U	<	6.60E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	<	5.80E-03	U	<	6.30E-03	U	<	5.00E-03	U	<	5.20E-03	U	<	6.60E-03	U	<	5.30E-03	U	<	5.20E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	6.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	4.90E-02	1.10E-02		2.00E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	4.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	6.10E-02	1.10E-02		2.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	5.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	9.70E-02	1.10E-02		3.30E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	6.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	3.10E-02	1.10E-02		9.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	6.70E-02	1.10E-02		2.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	4.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.10E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	3.50E-02	1.10E-02		1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	5.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1221	ND	0 / 234	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1232	ND	0 / 234	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1242	ND	0 / 234	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1248	ND	0 / 234	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1254	ND	0 / 234	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1260	4.50E+00	36 / 234	4.70E-02	5.40E-02	J	<	5.40E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.40E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	3.00E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.10E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	1.20E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	2.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	4.50E+01	2.20E+01		1.20E+01	2.20E+01	J	<	2.30E+01	U	<	2.30E+01	U	2.00E+01	2.10E+01	J	6.10E+00	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	1.15E+01	5.08E-01		6.74E+00	5.30E-01		5.54E+00	5.44E-01		6.82E+00	5.55E-01		7.88E+00	4.94E-01		8.84E+00	5.40E-01		6.12E+00	5.03E-01		5.01E+00	5.23E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB15-005			CA507-SB15-010			CA507-SB15-015			CA507-SB15-020			CA507-SB16-005			CA507-SB16-010			CA507-SB16-015			CA507-SB17-005		
DATE COLLECTED			February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.00E-03	U	<	4.80E-03	U	<	5.40E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
Ethylbenzene	ND	0 / 234	<	5.00E-03	U	<	4.80E-03	U	<	5.40E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.00E-02	U	<	9.60E-03	U	<	1.10E-02	U	<	9.60E-03	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.20E-02	U
Naphthalene	1.00E-02	1 / 234	<	5.00E-03	U	<	4.80E-03	U	<	5.40E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.00E-03	U	<	4.80E-03	U	<	5.40E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
Toluene	2.70E-03	1 / 234	<	5.00E-03	U	<	4.80E-03	U	<	5.40E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	5.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U
PCB-1221	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U
PCB-1232	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U
PCB-1242	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U
PCB-1248	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U
PCB-1254	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.00E+00	U	<	1.00E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	9.70E-01	U	<	9.20E-01	U	<	1.10E+00	U	<	1.30E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	1.01E+01	5.70E-01		6.15E+00	5.59E-01		6.04E+00	5.26E-01		7.12E+00	5.51E-01		9.80E+00	5.55E-01		6.21E+00	5.43E-01		5.92E+00	5.41E-01	J	7.07E+00	5.59E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB17-010			CA507-SB17-015			CA507-SB18-004			CA507-SB18-010			CA507-SB18-015			CA507-SS19-001			CA507-SB19-003			CA507-SB19-010		
DATE COLLECTED			February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013			February 6, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.20E-03	U	<	4.60E-03	U	<	5.20E-03	U	<	5.00E-03	U	<	4.50E-03	U	<	7.00E-03	U	<	4.70E-03	U	<	5.00E-03	U
Ethylbenzene	ND	0 / 234	<	5.20E-03	U	<	4.60E-03	U	<	5.20E-03	U	<	5.00E-03	U	<	4.50E-03	U	<	7.00E-03	U	<	4.70E-03	U	<	5.00E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.00E-02	U	<	9.30E-03	U	<	1.00E-02	U	<	1.00E-02	U	<	9.10E-03	U	<	1.40E-02	U	<	9.50E-03	U	<	9.90E-03	U
Naphthalene	1.00E-02	1 / 234	<	5.20E-03	U	<	4.60E-03	U	<	5.20E-03	U	<	5.00E-03	U	<	4.50E-03	U	<	7.00E-03	U	<	4.70E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.20E-03	U	<	4.60E-03	U	<	5.20E-03	U	<	5.00E-03	U	<	4.50E-03	U	<	7.00E-03	U	<	4.70E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	<	5.20E-03	U	<	4.60E-03	U	<	5.20E-03	U	<	5.00E-03	U	<	4.50E-03	U	<	7.00E-03	U	<	4.70E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	2.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.70E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.40E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	5.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.40E-02	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.60E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.00E-02	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.60E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1221	ND	0 / 234	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1232	ND	0 / 234	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1242	ND	0 / 234	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1248	ND	0 / 234	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1254	ND	0 / 234	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.70E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	1.20E-01	5.20E-02		<	5.60E-02	U	<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.00E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.10E+00	U	<	1.00E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	9.10E-01	U	<	1.50E+00	U	<	9.40E-01	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.30E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.30E+01	U	2.20E+01	2.10E+01		<	2.30E+01	U	<	2.30E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	7.22E+00	5.61E-01		5.33E+00	5.04E-01		9.97E+00	5.59E-01		7.39E+00	5.10E-01		3.90E+00	5.29E-01		1.47E+01	5.22E-01		9.43E+00	5.53E-01		6.23E+00	5.42E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SS20-001			CA507-SB20-004			CA507-SB20-010			CA507-SB20-015			CA507-SS21-001			CA507-SB21-004			CA507-SB21-010			CA507-SB21-015		
DATE COLLECTED			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 10, 2013			February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.40E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.50E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.40E-03	U
Ethylbenzene	ND	0 / 234	<	5.40E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.50E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	9.00E-03	U	<	1.10E-02	U	<	9.60E-03	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	<	5.40E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.50E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.40E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.50E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.40E-03	U
Toluene	2.70E-03	1 / 234	<	5.40E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.50E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	2.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	3.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.70E-01	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	7.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.20E-01	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	1.30E-01	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.40E-01	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	3.30E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	9.60E-02	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	5.20E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.30E-01	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.70E-02	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.50E-02	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	6.10E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.50E-01	3.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 234	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 234	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 234	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 234	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 234	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.40E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1260	4.50E+00	36 / 234	4.50E-01	5.30E-02		<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	4.40E-01	5.40E-02		<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	8.70E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	4.60E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.20E+00	U	<	1.40E+00	U	<	1.10E+00	U	<	1.00E+00	U	<	1.90E+00	U	<	2.30E+00	U	<	2.50E+00	U	<	2.40E+00	U
Oil Range Organics	3.00E+02	65 / 234	6.30E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	6.80E+01	2.10E+01		1.10E+01	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	7.42E+01	5.21E-01		9.64E+00	5.52E-01		6.39E+00	5.57E-01		5.63E+00	5.36E-01		9.96E+01	5.31E-01		1.12E+01	5.51E-01		8.06E+00	5.46E-01		4.66E+00	5.54E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB21-020			CA507-SS22-001			CA507-SB22-004			CA507-SB22-010			CA507-SB22-015			CA507-SS23-001			CA507-SB23-005			CA507-SB23-010		
DATE COLLECTED			February 10, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.20E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	5.50E-03	U	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	U	<	5.40E-03	U
Ethylbenzene	ND	0 / 234	<	5.20E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	5.50E-03	U	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.00E-02	U	<	9.70E-03	U	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.30E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	<	5.20E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	5.50E-03	U	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.20E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	5.50E-03	U	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	U	<	5.40E-03	U
Toluene	2.70E-03	1 / 234	<	5.20E-03	U	<	4.90E-03	U	<	5.10E-03	U	<	5.50E-03	U	<	5.20E-03	U	<	5.60E-03	U	<	6.50E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.00E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.70E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.00E-02	UJ	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	4.10E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.20E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.00E-02	UJ	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.40E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	6.40E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	1.00E-02		<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 234	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 234	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 234	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 234	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 234	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.50E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	7.90E-02	5.20E-02		<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.00E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	2.80E+00	1.00E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	2.00E+00	U	<	9.60E-01	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.40E+00	U	<	1.30E+00	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	<	2.10E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	1.40E+01	2.10E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	7.15E+00	5.28E-01		2.41E+01	5.17E-01	J	8.74E+00	5.50E-01		6.75E+00	5.48E-01		4.65E+00	5.40E-01		1.73E+01	5.20E-01		8.27E+00	5.54E-01		5.03E+00	5.54E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB23-015			CA507-SS24-001			CA507-SB24-005			CA507-SB24-010			CA507-SB24-015			CA507-SB25-001			CA507-SB25-005			CA507-SB25-010		
DATE COLLECTED			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.10E-03	U	<	5.40E-03	U	<	5.70E-03	U	<	5.30E-03	U	<	4.40E-03	U	<	5.60E-03	U	<	6.00E-03	U	<	5.00E-03	U
Ethylbenzene	ND	0 / 234	<	5.10E-03	U	<	5.40E-03	U	<	5.70E-03	U	<	5.30E-03	U	<	4.40E-03	U	<	5.60E-03	U	<	6.00E-03	U	<	5.00E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	8.80E-03	U	<	1.10E-02	U	<	1.20E-02	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	<	5.10E-03	U	<	5.40E-03	U	<	5.70E-03	U	<	5.30E-03	U	<	4.40E-03	U	<	5.60E-03	U	<	6.00E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.10E-03	U	<	5.40E-03	U	<	5.70E-03	U	<	5.30E-03	U	<	4.40E-03	U	<	5.60E-03	U	<	6.00E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	<	5.10E-03	U	<	5.40E-03	U	<	5.70E-03	U	<	5.30E-03	U	<	4.40E-03	U	<	5.60E-03	U	<	6.00E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	5.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.70E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	7.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	7.10E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	1.20E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	7.40E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	3.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	3.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.40E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	5.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	5.40E-03	1.00E-02	J	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.20E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	3.80E+00	1.00E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.00E+00	U	<	8.60E-01	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	<	2.10E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	1.40E+01	2.10E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	5.11E+00	5.46E-01		1.19E+02	5.32E-01		7.06E+01	5.52E-01		6.11E+00	5.43E-01		4.37E+00	5.57E-01		8.10E+00	5.14E-01		1.02E+01	5.52E-01		5.40E+00	5.26E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB25-015			CA507-SS26-001			CA507-SB26-004			CA507-SB26-010			CA507-SB26-015			CA507-SB26-020			CA507-SB27-005			CA507-SB27-010		
DATE COLLECTED			February 13, 2013			February 6, 2013			February 6, 2013			February 6, 2013			February 6, 2013			February 6, 2013			February 12, 2013			February 12, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.50E-03	U	<	5.00E-03	U	<	5.60E-03	U	<	4.90E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U	<	5.00E-03	U
Ethylbenzene	ND	0 / 234	<	5.50E-03	U	<	5.00E-03	U	<	5.60E-03	U	<	4.90E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U	<	5.00E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.10E-02	U	<	9.90E-03	U	<	1.10E-02	U	<	9.80E-03	U	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	9.90E-03	U
Naphthalene	1.00E-02	1 / 234	<	5.50E-03	U	<	5.00E-03	U	<	5.60E-03	U	<	4.90E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.50E-03	U	<	5.00E-03	U	<	5.60E-03	U	<	4.90E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	<	5.50E-03	U	<	5.00E-03	U	<	5.60E-03	U	<	4.90E-03	U	<	5.30E-03	U	<	5.10E-03	U	<	5.00E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	6.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	1.00E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	1.20E-02	1.10E-02		<	1.10E-02	U	3.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	3.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	5.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	8.10E-03	1.10E-02	J	<	1.10E-02	U	4.60E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.50E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.50E-02	U	<	5.30E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.20E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.10E+00	U	<	1.30E+00	U	<	1.10E+00	U	<	9.80E-01	U	<	1.10E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	9.20E-01	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	5.70E+01	2.10E+01		<	2.30E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	4.85E+00	5.39E-01		1.44E+01	5.24E-01		8.31E+00	5.67E-01		5.36E+00	5.67E-01		4.99E+00	5.54E-01		5.05E+00	5.45E-01		6.85E+00	5.70E-01		5.35E+00	5.11E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB27-015			CA507-SB28-005			CA507-SB28-010			CA507-SB28-015			CA507-SB29-005			CA507-SB29-010			CA507-SB29-015			CA507-SB30-005		
DATE COLLECTED			February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013			February 11, 2013			February 11, 2013			February 11, 2013			February 12, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.30E-03	U	<	4.40E-03	U	<	4.70E-03	U	<	4.60E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.30E-03	U	<	5.00E-03	U
Ethylbenzene	ND	0 / 234	<	5.30E-03	U	<	4.40E-03	U	<	4.70E-03	U	<	4.60E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.30E-03	U	<	5.00E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.10E-02	U	<	8.90E-03	U	<	9.40E-03	U	<	9.20E-03	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	<	5.30E-03	U	<	4.40E-03	U	<	4.70E-03	U	<	4.60E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.30E-03	U	<	5.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.30E-03	U	<	4.40E-03	U	<	4.70E-03	U	<	4.60E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.30E-03	U	<	5.00E-03	U
Toluene	2.70E-03	1 / 234	2.70E-03	5.30E-03	J	<	4.40E-03	U	<	4.70E-03	U	<	4.60E-03	U	<	5.10E-03	U	<	5.30E-03	U	<	5.30E-03	U	<	5.00E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.80E-02	U
PCB-1221	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.80E-02	U
PCB-1232	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.80E-02	U
PCB-1242	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.80E-02	U
PCB-1248	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.80E-02	U
PCB-1254	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.80E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.80E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.20E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.10E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	8.80E-01	U	<	1.10E+00	U	<	1.10E+00	U	<	1.00E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.30E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	5.75E+00	5.63E-01		7.48E+00	5.48E-01		5.28E+00	5.30E-01		4.67E+00	5.30E-01		8.75E+00	5.59E-01		7.04E+00	5.34E-01		5.66E+00	5.18E-01		6.90E+00	5.72E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB30-010			CA507-SB30-015			CA507-SB31-005			CA507-SB31-010			CA507-SS32-001			CA507-SB32-004			CA507-SB32-009			CA507-SB32-015		
DATE COLLECTED			February 12, 2013			February 12, 2013			February 8, 2013			February 8, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.80E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	4.40E-03	U	<	5.00E-03	U	<	6.10E-03	U	<	4.80E-03	U	<	4.80E-03	U
Ethylbenzene	ND	0 / 234	<	5.80E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	4.40E-03	U	<	5.00E-03	U	<	6.10E-03	U	<	4.80E-03	U	<	4.80E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.20E-02	U	<	9.60E-03	U	<	1.10E-02	U	<	8.80E-03	U	<	1.00E-02	U	<	1.20E-02	U	<	9.70E-03	U	<	9.50E-03	U
Naphthalene	1.00E-02	1 / 234	<	5.80E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	4.40E-03	U	<	5.00E-03	U	<	6.10E-03	U	<	4.80E-03	U	<	4.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.80E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	4.40E-03	U	<	5.00E-03	U	<	6.10E-03	U	<	4.80E-03	U	<	4.80E-03	U
Toluene	2.70E-03	1 / 234	<	5.80E-03	U	<	4.80E-03	U	<	5.50E-03	U	<	4.40E-03	U	<	5.00E-03	U	<	6.10E-03	U	<	4.80E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	2.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.70E-01	2.10E-02		4.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	5.30E-03	1.10E-02	J	2.20E-01	2.10E-02		3.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.30E-03	1.10E-02	J	3.10E-01	2.10E-02		5.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.00E-01	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.10E-01	2.10E-02		3.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.10E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.40E-01	2.10E-02		3.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.60E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.60E-02	U	1.10E-01	5.40E-02		2.70E-02	5.40E-02	J	<	5.40E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	7.70E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	3.40E+00	1.10E+01	J
Gasoline Range Organics	2.10E+00	5 / 234	<	1.20E+00	U	<	1.10E+00	U	<	1.00E+00	U	<	1.20E+00	U	<	9.00E-01	U	<	1.20E+00	U	<	1.10E+00	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	<	2.30E+01	U	1.50E+01	2.30E+01	J	2.10E+01	2.20E+01	J	3.70E+01	2.10E+01		6.50E+00	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	5.48E+00	5.56E-01		4.96E+00	5.55E-01		6.90E+00	5.59E-01		5.36E+00	5.17E-01		8.90E+01	5.06E-01		1.14E+01	5.33E-01		6.86E+00	5.27E-01		4.11E+00	5.61E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB32-020			CA507-SB33-001			CA507-SB33-004			CA507-SB33-010			CA507-SB33-015			CA507-SB33-020			CA507-SS34-001			CA507-SB34-004		
DATE COLLECTED			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.10E-03	U	<	4.70E-03	U	<	5.50E-03	U	<	4.90E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.70E-03	U	<	5.90E-03	U
Ethylbenzene	ND	0 / 234	<	5.10E-03	U	<	4.70E-03	U	<	5.50E-03	U	<	4.90E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.70E-03	U	<	5.90E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.00E-02	U	<	9.40E-03	U	<	1.10E-02	U	<	9.80E-03	U	<	1.10E-02	U	<	9.50E-03	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	1.00E-02	1 / 234	<	5.10E-03	U	<	4.70E-03	U	<	5.50E-03	U	<	4.90E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.70E-03	U	<	5.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.10E-03	U	<	4.70E-03	U	<	5.50E-03	U	<	4.90E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.70E-03	U	<	5.90E-03	U
Toluene	2.70E-03	1 / 234	<	5.10E-03	U	<	4.70E-03	U	<	5.50E-03	U	<	4.90E-03	U	<	5.60E-03	U	<	4.80E-03	U	<	5.70E-03	U	<	5.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	2.10E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	2.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	2.50E-02	2.10E-02		2.00E-02	2.20E-02	J	1.00E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	3.30E-02	2.10E-02		<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	2.70E-02	2.10E-02		1.90E-02	2.20E-02	J	1.30E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	3.50E-02	2.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	4.20E-02	2.10E-02		2.80E-02	2.20E-02		1.70E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	5.30E-02	2.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	1.40E-02	2.10E-02	J	9.60E-03	2.20E-02	J	4.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	1.40E-02	2.10E-02	J	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	2.50E-02	2.10E-02		1.60E-02	2.20E-02	J	9.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	3.40E-02	2.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	2.10E-02	U	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	2.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	2.00E-02	2.10E-02	J	1.40E-02	2.20E-02	J	8.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	2.30E-02	2.10E-02		<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.70E-02	U
PCB-1221	ND	0 / 234	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.70E-02	U
PCB-1232	ND	0 / 234	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.70E-02	U
PCB-1242	ND	0 / 234	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.70E-02	U
PCB-1248	ND	0 / 234	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.70E-02	U
PCB-1254	ND	0 / 234	<	5.60E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.40E-02	U	<	5.70E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.60E-02	U	1.10E-01	5.30E-02		1.10E-01	5.50E-02		4.20E-02	5.60E-02	J	<	5.70E-02	U	<	5.60E-02	U	2.80E-01	5.40E-02		<	5.70E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	1.60E+01	1.10E+01		<	1.10E+01	U	8.00E+00	1.10E+01	J	3.00E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.20E+00	U	<	9.70E-01	U	<	9.30E-01	U	<	1.00E+00	U	<	1.10E+00	U	<	9.90E-01	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.30E+01	U	1.80E+01	2.10E+01	J	2.00E+01	2.20E+01	J	1.60E+01	2.20E+01	J	<	2.30E+01	U	<	2.20E+01	U	2.40E+01	2.10E+01		<	2.30E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	5.72E+00	5.38E-01		1.56E+01	5.04E-01		4.92E+01	5.29E-01		1.53E+01	5.32E-01		5.72E+00	5.45E-01		5.17E+00	5.18E-01		2.26E+01	5.36E-01		8.80E+00	5.54E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB34-010			CA507-SB34-015			CA507-SB35-001			CA507-SB35-004			CA507-SB35-010			CA507-SB35-015			CA507-SB35-020			CA507-SS36-001		
DATE COLLECTED			February 13, 2013			February 13, 2013			February 7, 2013			February 7, 2013			February 7, 2013			February 7, 2013			February 7, 2013			February 4, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.20E-03	U	<	4.80E-03	U	<	6.80E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	5.50E-03	U	<	4.80E-03	U	<	4.50E-03	U
Ethylbenzene	ND	0 / 234	<	5.20E-03	U	<	4.80E-03	U	<	6.80E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	5.50E-03	U	<	4.80E-03	U	<	4.50E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.00E-02	U	<	9.70E-03	U	<	1.40E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	9.60E-03	U	<	9.10E-03	U
Naphthalene	1.00E-02	1 / 234	<	5.20E-03	U	<	4.80E-03	U	<	6.80E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	5.50E-03	U	<	4.80E-03	U	<	4.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.20E-03	U	<	4.80E-03	U	<	6.80E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	5.50E-03	U	<	4.80E-03	U	<	4.50E-03	U
Toluene	2.70E-03	1 / 234	<	5.20E-03	U	<	4.80E-03	U	<	6.80E-03	U	<	5.60E-03	U	<	5.30E-03	U	<	5.50E-03	U	<	4.80E-03	U	<	4.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	3.00E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	3.30E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U	6.40E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.00E+00	3.30E-02	
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U	9.10E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.00E+00	3.30E-02	
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U	1.60E-01	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.60E+00	3.30E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U	4.90E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.00E+00	3.30E-02	
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U	7.40E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.50E+00	3.30E-02	
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	2.60E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.90E-01	3.30E-02	
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U	1.10E-01	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.20E+00	3.30E-02	
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U	<	5.20E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U	<	5.20E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U	<	5.20E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U	<	5.20E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U	<	5.20E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U	<	5.20E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.60E-02	U	<	5.40E-02	U	2.30E-01	5.20E-02		<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	4.20E-01	5.50E-02	
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	1.50E+01	1.00E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	3.30E+01	2.20E+01	
Gasoline Range Organics	2.10E+00	5 / 234	<	1.10E+00	U	<	9.70E-01	U	2.10E+00	9.60E-01		<	1.10E+00	U	<	1.10E+00	U	<	1.00E+00	U	<	9.20E-01	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	<	2.20E+01	U	6.60E+01	2.10E+01		<	2.30E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	2.80E+02	4.40E+01	
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	7.05E+00	5.57E-01		5.56E+00	5.32E-01		2.16E+02	4.90E-01		1.12E+01	5.54E-01		5.31E+00	5.52E-01		5.33E+00	5.37E-01		6.47E+00	5.33E-01		6.97E+01	5.12E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB36-005			CA507-SB36-010			CA507-SS37-001			CA507-SB37-005			CA507-SB37-010			CA507-SS38-001			CA507-SB38-004			CA507-SB38-009		
DATE COLLECTED			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.60E-03	U	<	4.70E-03	U	<	7.50E-03	U	<	5.00E-03	U	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U	<	5.10E-03	UJ
Ethylbenzene	ND	0 / 234	<	5.60E-03	U	<	4.70E-03	U	<	7.50E-03	U	<	5.00E-03	U	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U	<	5.10E-03	UJ
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.10E-02	U	<	9.40E-03	U	<	1.50E-02	U	<	1.00E-02	U	<	9.00E-03	U	2.90E-03	1.20E-02	J	<	1.10E-02	U	<	1.00E-02	UJ
Naphthalene	1.00E-02	1 / 234	<	5.60E-03	U	<	4.70E-03	U	<	7.50E-03	U	<	5.00E-03	U	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U	<	5.10E-03	UJ
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.60E-03	U	<	4.70E-03	U	<	7.50E-03	U	<	5.00E-03	U	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U	<	5.10E-03	UJ
Toluene	2.70E-03	1 / 234	<	5.60E-03	U	<	4.70E-03	U	<	7.50E-03	U	<	5.00E-03	U	<	4.50E-03	U	<	5.90E-03	U	<	5.40E-03	U	<	5.10E-03	UJ
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	3.50E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	2.00E-02	1.10E-02		<	1.10E-02	U	2.10E-01	3.50E-02		<	1.10E-02	U	<	1.20E-02	U	1.80E-01	1.10E-02		<	1.10E-02	U	7.30E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	3.10E-02	1.10E-02		<	1.10E-02	U	3.90E-01	3.50E-02		<	1.10E-02	U	<	1.20E-02	U	2.30E-01	1.10E-02		<	1.10E-02	U	1.30E-02	1.10E-02	
Benzo(b)fluoranthene	5.60E+00	86 / 234	5.40E-02	1.10E-02		<	1.10E-02	U	9.10E-01	3.50E-02		<	1.10E-02	U	<	1.20E-02	U	3.80E-01	1.10E-02		<	1.10E-02	U	1.80E-02	1.10E-02	
Benzo(k)fluoranthene	1.90E+00	62 / 234	1.40E-02	1.10E-02		<	1.10E-02	U	2.70E-01	3.50E-02		<	1.10E-02	U	<	1.20E-02	U	1.40E-01	1.10E-02		<	1.10E-02	U	5.20E-03	1.10E-02	J
Chrysene	4.20E+00	71 / 234	3.10E-02	1.10E-02		<	1.10E-02	U	4.70E-01	3.50E-02		<	1.10E-02	U	<	1.20E-02	U	2.40E-01	1.10E-02		<	1.10E-02	U	8.90E-03	1.10E-02	J
Dibenz(a,h)anthracene	4.60E-01	46 / 234	7.70E-03	1.10E-02	J	<	1.10E-02	U	7.20E-02	3.50E-02		<	1.10E-02	U	<	1.20E-02	U	3.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	2.60E-02	1.10E-02		<	1.10E-02	U	3.10E-01	3.50E-02		<	1.10E-02	U	<	1.20E-02	U	1.30E-01	1.10E-02		<	1.10E-02	U	9.10E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.80E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.80E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.80E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.80E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.80E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 234	<	5.70E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.80E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U
PCB-1260	4.50E+00	36 / 234	2.80E-02	5.70E-02	J	<	5.60E-02	U	4.20E-01	5.80E-02		<	5.70E-02	U	<	5.80E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	3.60E+01	2.30E+01		<	1.10E+01	U	<	1.20E+01	U	8.70E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.00E+00	U	<	8.90E-01	U	<	1.40E+00	U	<	1.10E+00	U	<	9.20E-01	U	<	1.10E+00	U	<	1.10E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.30E+01	U	<	2.30E+01	U	2.70E+02	4.60E+01		<	2.30E+01	U	<	2.30E+01	U	3.90E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	8.36E+00	5.52E-01		5.62E+00	5.58E-01		1.50E+02	5.78E-01		7.03E+00	5.36E-01		3.29E+00	5.39E-01		8.56E+00	5.18E-01		1.03E+01	5.43E-01	J	6.41E+00	5.36E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB38-014			CA507-SS39-001			CA507-SB39-005			CA507-SB39-010			CA507-SB40-010			CA507-SB40-015			CA507-SB41-010			CA507-SB41-015		
DATE COLLECTED			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 5, 2013			February 5, 2013			February 6, 2013			February 6, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	4.80E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	4.80E-03	U	<	5.20E-03	U	<	5.40E-03	U
Ethylbenzene	ND	0 / 234	<	4.80E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	4.80E-03	U	<	5.20E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	9.50E-03	U	2.50E-03	9.80E-03	J	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	9.70E-03	U	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	<	4.80E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	4.80E-03	U	<	5.20E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	4.80E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	4.80E-03	U	<	5.20E-03	U	<	5.40E-03	U
Toluene	2.70E-03	1 / 234	<	4.80E-03	U	<	4.90E-03	U	<	5.20E-03	U	<	5.40E-03	U	<	5.20E-03	U	<	4.80E-03	U	<	5.20E-03	U	<	5.40E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	2.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	1.70E-01	2.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	2.10E-01	2.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	3.80E-01	2.00E-02		<	1.10E-02	U	2.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	9.10E-02	2.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	2.30E-01	2.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	3.70E-02	2.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	1.40E-01	2.00E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.50E-02	U	<	5.10E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 234	<	5.50E-02	U	<	5.10E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 234	<	5.50E-02	U	<	5.10E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 234	<	5.50E-02	U	<	5.10E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 234	<	5.50E-02	U	<	5.10E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 234	<	5.50E-02	U	<	5.10E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.50E-02	U	<	5.10E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	5.20E+00	1.00E+01	J	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	9.90E-01	U	<	1.00E+00	U	<	1.10E+00	U	<	9.70E-01	U	<	1.00E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	1.20E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	3.20E+01	2.00E+01		<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	4.52E+00	5.39E-01		9.63E+00	4.95E-01		1.03E+01	5.40E-01		4.81E+00	5.50E-01		6.41E+00	5.64E-01		5.25E+00	5.56E-01		6.03E+00	5.57E-01		3.61E+00	5.41E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB42-010			CA507-SB42-015			CA507-SB43-010			CA507-SB43-015			CA507-SB44-010			CA507-SB44-015			CA507-SB45-010			CA507-SB45-015		
DATE COLLECTED			February 6, 2013			February 6, 2013			February 7, 2013			February 7, 2013			February 5, 2013			February 5, 2013			February 5, 2013			February 5, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.40E-03	U	<	5.70E-03	U	<	4.90E-03	U	<	5.00E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	4.90E-03	U
Ethylbenzene	ND	0 / 234	<	5.40E-03	U	<	5.70E-03	U	<	4.90E-03	U	<	5.00E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	4.90E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.10E-02	U	<	1.10E-02	U	<	9.80E-03	U	<	1.00E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U	<	9.80E-03	U
Naphthalene	1.00E-02	1 / 234	<	5.40E-03	U	<	5.70E-03	U	<	4.90E-03	U	<	5.00E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.40E-03	U	<	5.70E-03	U	<	4.90E-03	U	<	5.00E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	<	5.40E-03	U	<	5.70E-03	U	<	4.90E-03	U	<	5.00E-03	U	<	5.50E-03	U	<	5.40E-03	U	<	5.10E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.50E-02	1.10E-02		<	1.10E-02	U	5.20E-03	1.10E-02	J	7.70E-03	1.10E-02	J
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.40E-02	1.10E-02		<	1.10E-02	U	3.20E-03	1.10E-02	J	5.30E-03	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.20E-02	1.10E-02		<	1.10E-02	U	5.70E-03	1.10E-02	J	8.90E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.00E-02	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	2.90E-03	1.10E-02	J
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	1.10E-02		<	1.10E-02	U	3.30E-03	1.10E-02	J	5.10E-03	1.10E-02	J
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	9.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	3.40E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.70E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.00E+00	U	<	9.40E-01	U	<	9.20E-01	U	<	9.80E-01	U	<	1.00E+00	U	<	9.70E-01	U	<	1.00E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	5.31E+00	5.46E-01		4.86E+00	5.46E-01		5.94E+00	5.24E-01		5.04E+00	5.41E-01		6.24E+00	5.72E-01		5.75E+00	5.37E-01		6.07E+00	5.50E-01		6.99E+00	5.42E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB46-010			CA507-SB46-015			CA507-SB47-010			CA507-SB47-015			CA507-SB48-005			CA507-SB48-010			CA507-SB49-004			CA507-SB49-010		
DATE COLLECTED			February 10, 2013			February 10, 2013			February 10, 2013			February 10, 2013			February 8, 2013			February 8, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	6.30E-03	U	<	4.80E-03	U	<	4.30E-03	U	<	4.50E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	4.90E-03	U	<	5.20E-03	U
Ethylbenzene	ND	0 / 234	<	6.30E-03	U	<	4.80E-03	U	<	4.30E-03	U	<	4.50E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	4.90E-03	U	<	5.20E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.30E-02	U	<	9.60E-03	U	<	8.70E-03	U	<	8.90E-03	U	<	1.10E-02	U	<	9.30E-03	U	<	9.80E-03	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	<	6.30E-03	U	<	4.80E-03	U	<	4.30E-03	U	<	4.50E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	4.90E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	6.30E-03	U	<	4.80E-03	U	<	4.30E-03	U	<	4.50E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	4.90E-03	U	<	5.20E-03	U
Toluene	2.70E-03	1 / 234	<	6.30E-03	U	<	4.80E-03	U	<	4.30E-03	U	<	4.50E-03	U	<	5.40E-03	U	<	4.70E-03	U	<	4.90E-03	U	<	5.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.10E-02	1.10E-02	J	3.90E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U	6.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U	4.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U	6.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U	4.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 234	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 234	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 234	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 234	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 234	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	2.00E+00	U	<	2.00E+00	U	<	2.00E+00	U	<	1.80E+00	U	<	1.10E+00	U	<	8.50E-01	U	<	2.10E+00	U	<	2.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	1.50E+01	2.20E+01	J	1.10E+01	2.20E+01	J	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	7.23E+00	5.54E-01		5.44E+00	5.20E-01		6.46E+00	5.46E-01		5.39E+00	5.40E-01		8.15E+00	5.52E-01		5.34E+00	5.34E-01		9.36E+00	5.05E-01		6.06E+00	5.30E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB49-015			CA507-SB49-020			CA507-SS50-001			CA507-SB50-005			CA507-SB50-010			CA507-SB50-015			CA507-SS51-001			CA507-SB51-005		
DATE COLLECTED			February 8, 2013			February 8, 2013			February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.20E-03	U	<	4.80E-03	U	<	6.40E-03	U	<	6.10E-03	U	<	7.10E-03	U	<	6.40E-03	U	<	5.30E-03	U	<	4.80E-03	U
Ethylbenzene	ND	0 / 234	<	5.20E-03	U	<	4.80E-03	U	<	6.40E-03	U	<	6.10E-03	U	<	7.10E-03	U	<	6.40E-03	U	<	5.30E-03	U	<	4.80E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.00E-02	U	<	9.70E-03	U	<	1.30E-02	U	<	1.20E-02	U	<	1.40E-02	U	<	1.30E-02	U	<	1.10E-02	U	<	9.70E-03	U
Naphthalene	1.00E-02	1 / 234	<	5.20E-03	U	<	4.80E-03	U	<	6.40E-03	U	<	6.10E-03	U	<	7.10E-03	U	<	6.40E-03	U	<	5.30E-03	U	<	4.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.20E-03	U	<	4.80E-03	U	<	6.40E-03	U	<	6.10E-03	U	<	7.10E-03	U	<	6.40E-03	U	<	5.30E-03	U	<	4.80E-03	U
Toluene	2.70E-03	1 / 234	<	5.20E-03	U	<	4.80E-03	U	<	6.40E-03	U	<	6.10E-03	U	<	7.10E-03	U	<	6.40E-03	U	<	5.30E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	2.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U	5.10E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	9.90E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U	8.00E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.40E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U	1.80E-01	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.20E-02	1.10E-02		<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U	4.10E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	4.70E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U	8.30E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.10E-02	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	2.10E-02	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U	7.70E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.00E-02	1.10E-02	J	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.50E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 234	<	5.50E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 234	<	5.50E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 234	<	5.50E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 234	<	5.50E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 234	<	5.50E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.50E-02	U	<	5.50E-02	U	6.60E-02	5.30E-02		<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.40E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	1.10E+01	1.10E+01		<	1.10E+01	U	1.30E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	2.00E+00	U	<	2.10E+00	U	<	1.30E+00	U	<	1.20E+00	U	<	1.30E+00	U	<	1.20E+00	U	<	1.20E+00	U	<	9.80E-01	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	<	2.20E+01	U	6.50E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	2.40E+01	2.10E+01		<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	5.24E+00	5.02E-01		5.76E+00	5.34E-01		6.28E+01	5.27E-01		1.24E+01	5.51E-01		7.73E+00	5.46E-01		6.13E+00	5.47E-01		2.08E+01	5.37E-01		8.41E+00	5.57E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB51-010			CA507-SB51-015			CA507-SS52-001			CA507-SB52-004			CA507-SB52-010			CA507-SB52-015			CA507-SB53-005			CA507-SB53-010		
DATE COLLECTED			February 13, 2013			February 13, 2013			February 11, 2013			February 11, 2013			February 11, 2013			February 11, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.30E-03	U	<	4.50E-03	U	<	7.30E-03	U	<	5.90E-03	U	<	5.00E-03	U	<	5.10E-03	U	<	4.90E-03	U	<	4.90E-03	U
Ethylbenzene	ND	0 / 234	<	5.30E-03	U	<	4.50E-03	U	<	7.30E-03	U	<	5.90E-03	U	<	5.00E-03	U	<	5.10E-03	U	<	4.90E-03	U	<	4.90E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.10E-02	U	<	9.10E-03	U	<	1.50E-02	U	<	1.20E-02	U	<	9.90E-03	U	<	1.00E-02	U	<	9.80E-03	U	<	9.80E-03	U
Naphthalene	1.00E-02	1 / 234	<	5.30E-03	U	<	4.50E-03	U	<	7.30E-03	U	<	5.90E-03	U	<	5.00E-03	U	<	5.10E-03	U	<	4.90E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.30E-03	U	<	4.50E-03	U	<	7.30E-03	U	<	5.90E-03	U	<	5.00E-03	U	<	5.10E-03	U	<	4.90E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	<	5.30E-03	U	<	4.50E-03	U	<	7.30E-03	U	<	5.90E-03	U	<	5.00E-03	U	<	5.10E-03	U	<	4.90E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	6.00E-03	2.30E-02	J	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U	2.30E-02	3.20E-02		4.90E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	2.30E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U	2.70E-02	3.20E-02		4.80E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	2.30E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U	3.70E-02	3.20E-02		6.90E-02	1.10E-02		2.90E-03	1.10E-02		<	1.10E-02	U	<	2.30E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U	9.10E-03	3.20E-02		2.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	2.30E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U	1.80E-02	3.20E-02		4.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	2.30E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	<	3.20E-02	U	1.70E-02	1.10E-02		9.40E-03	1.10E-02		6.10E-03	1.10E-02		<	2.30E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U	2.20E-02	3.20E-02		4.10E-02	1.10E-02		9.50E-03	1.10E-02		6.30E-03	1.10E-02		<	2.30E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.30E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.60E-02	U	<	5.50E-02	U	3.10E-01	5.30E-02		<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	7.30E+00	1.10E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.10E+00	U	<	1.20E+00	U	<	1.40E+00	U	<	1.30E+00	U	<	1.10E+00	U	<	1.00E+00	U	<	1.00E+00	U	<	8.80E-01	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	<	2.20E+01	U	1.80E+02	2.10E+01		1.80E+01	2.20E+01		<	2.20E+01	U	<	2.20E+01	U	1.60E+01	2.30E+01	J	<	2.30E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	6.61E+00	5.57E-01		4.54E+00	5.52E-01		2.18E+01	5.18E-01		9.92E+00	5.36E-01		6.73E+00	5.29E-01		5.18E+00	5.43E-01		7.62E+00	5.44E-01		8.75E+00	5.52E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SS54-001			CA507-SB54-005			CA507-SB54-010			CA507-SB55-005			CA507-SB55-010			CA507-SS56-001			CA507-SB56-004			CA507-SB56-010		
DATE COLLECTED			February 8, 2013			February 4, 2013			February 4, 2013			February 7, 2013			February 7, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	4.80E-03	U	<	5.30E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
Ethylbenzene	ND	0 / 234	<	4.80E-03	U	<	5.30E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	9.60E-03	U	<	1.10E-02	U	<	9.70E-03	U	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	9.50E-03	U
Naphthalene	1.00E-02	1 / 234	<	4.80E-03	U	<	5.30E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	4.80E-03	U	<	5.30E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
Toluene	2.70E-03	1 / 234	<	4.80E-03	U	<	5.30E-03	U	<	4.80E-03	U	<	5.60E-03	U	<	5.20E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	1.60E-02	3.30E-02	J	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	3.30E-01	3.30E-02		5.70E-03	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	8.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	3.90E-01	3.30E-02		1.00E-02	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	8.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	6.60E-01	3.30E-02		1.30E-02	1.20E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	2.10E-01	3.30E-02		3.90E-03	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	3.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	4.00E-01	3.30E-02		6.30E-03	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	7.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	6.90E-02	3.30E-02		<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	2.90E-01	3.30E-02		9.40E-03	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	6.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.50E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 234	<	5.50E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 234	<	5.50E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 234	<	5.50E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 234	<	5.50E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 234	<	5.50E-02	U	<	5.80E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1260	4.50E+00	36 / 234	4.50E+00	1.10E+00		2.20E-01	5.80E-02		<	5.70E-02	U	<	5.70E-02	U	<	5.70E-02	U	5.90E-02	5.30E-02		<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	2.70E+01	1.10E+01		<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	3.40E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.10E+00	U	<	1.10E+00	U	<	9.70E-01	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	2.60E+02	2.20E+01		1.20E+01	2.30E+01	J	<	2.30E+01	U	1.10E+01	2.30E+01	J	<	2.30E+01	U	6.20E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	5.63E+01	5.52E-01		8.93E+00	5.42E-01		5.09E+00	5.57E-01		7.75E+00	5.26E-01		5.62E+00	5.68E-01		1.37E+01	5.15E-01		1.07E+01	5.56E-01		6.17E+00	5.16E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SS57-001			CA507-SB57-004			CA507-SB57-010			CA507-SB58-004			CA507-SB58-010			CA507-SS59-001			CA507-SB59-004			CA507-SB59-010		
DATE COLLECTED			February 7, 2013			February 7, 2013			February 7, 2013			February 7, 2013			February 7, 2013			February 7, 2013			February 7, 2013			February 7, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.00E-03	U	<	5.90E-03	U	<	4.60E-03	U	<	6.00E-03	U	<	5.00E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.50E-03	U
Ethylbenzene	ND	0 / 234	<	5.00E-03	U	<	5.90E-03	U	<	4.60E-03	U	<	6.00E-03	U	<	5.00E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.50E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.00E-02	U	<	1.20E-02	U	<	9.10E-03	U	<	1.20E-02	U	<	1.00E-02	U	<	9.90E-03	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	1.00E-02	1 / 234	<	5.00E-03	U	<	5.90E-03	U	<	4.60E-03	U	<	6.00E-03	U	<	5.00E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.00E-03	U	<	5.90E-03	U	<	4.60E-03	U	<	6.00E-03	U	<	5.00E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.50E-03	U
Toluene	2.70E-03	1 / 234	<	5.00E-03	U	<	5.90E-03	U	<	4.60E-03	U	<	6.00E-03	U	<	5.00E-03	U	<	4.90E-03	U	<	5.50E-03	U	<	5.50E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	3.70E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.30E-02	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	3.40E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	6.90E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	5.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.10E-01	2.10E-02		5.70E-03	1.10E-02	J	5.40E-03	1.10E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	9.00E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.10E-01	2.10E-02		4.80E-03	1.10E-02	J	4.80E-03	1.10E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	2.40E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	4.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	4.20E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	9.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	1.70E-02	2.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	2.80E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	6.70E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	1.20E-01	2.10E-02		5.20E-03	1.10E-02	J	4.90E-03	1.10E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 234	<	5.20E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.70E-02	U	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1260	4.50E+00	36 / 234	9.00E-01	2.60E-01		<	5.60E-02	U	<	5.50E-02	U	<	5.70E-02	U	<	5.70E-02	U	6.70E-01	5.30E-02		<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	4.50E+01	1.00E+01		<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	1.90E+01	1.10E+01		<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	9.30E-01	U	<	1.20E+00	U	<	1.00E+00	U	<	1.40E+00	U	<	1.00E+00	U	5.00E-01	1.40E+00	J	<	1.10E+00	U	<	1.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	1.20E+02	2.10E+01		<	2.30E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U	1.40E+02	2.10E+01		<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	2.70E+02	5.20E-01		1.07E+01	5.52E-01		7.73E+00	5.39E-01		8.96E+00	5.69E-01		4.94E+00	5.61E-01		3.00E+02	5.11E-01	J	1.26E+01	5.64E-01		9.35E+00	5.54E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SS60-001			CA507-SB60-004			CA507-SB60-010			CA507-SS61-001			CA507-SB61-005			CA507-SB61-010			CA507-SS62-001			CA507-SB62-005		
DATE COLLECTED			February 7, 2013			February 7, 2013			February 7, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	5.80E-03	U	<	5.30E-03	U	<	5.00E-03	U	<	5.00E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	4.70E-03	U
Ethylbenzene	ND	0 / 234	<	5.80E-03	U	<	5.30E-03	U	<	5.00E-03	U	<	5.00E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	4.70E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.20E-02	U	<	1.10E-02	U	<	9.90E-03	U	<	9.90E-03	U	<	1.00E-02	U	<	1.10E-02	U	<	9.80E-03	U	<	9.50E-03	U
Naphthalene	1.00E-02	1 / 234	<	5.80E-03	U	<	5.30E-03	U	<	5.00E-03	U	<	5.00E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	4.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.80E-03	U	<	5.30E-03	U	<	5.00E-03	U	<	5.00E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	4.70E-03	U
Toluene	2.70E-03	1 / 234	<	5.80E-03	U	<	5.30E-03	U	<	5.00E-03	U	<	5.00E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	4.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	2.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	9.30E-03	3.40E-02	J	<	1.10E-02	U	<	1.10E-02	U	1.10E-02	3.30E-02	J	<	1.20E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.50E-01	2.10E-02		4.10E-03	1.10E-02	J	<	1.10E-02	U	4.30E-01	3.40E-02		1.00E-01	1.10E-02		<	1.10E-02	U	1.30E-01	3.30E-02		<	1.20E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	2.10E-01	2.10E-02		4.20E-03	1.10E-02	J	<	1.10E-02	U	5.40E-01	3.40E-02		1.20E-01	1.10E-02		<	1.10E-02	U	2.00E-01	3.30E-02		5.10E-03	1.20E-02	J
Benzo(b)fluoranthene	5.60E+00	86 / 234	3.70E-01	2.10E-02		6.20E-03	1.10E-02	J	<	1.10E-02	U	1.00E+00	3.40E-02		2.20E-01	1.10E-02		<	1.10E-02	U	3.50E-01	3.30E-02		3.40E-03	1.20E-02	J
Benzo(k)fluoranthene	1.90E+00	62 / 234	9.60E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	2.60E-01	3.40E-02		5.60E-02	1.10E-02		<	1.10E-02	U	9.70E-02	3.30E-02		<	1.20E-02	U
Chrysene	4.20E+00	71 / 234	2.30E-01	2.10E-02		3.00E-03	1.10E-02	J	<	1.10E-02	U	6.20E-01	3.40E-02		1.60E-01	1.10E-02		<	1.10E-02	U	2.00E-01	3.30E-02		<	1.20E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	3.50E-02	2.10E-02		<	1.10E-02	U	<	1.10E-02	U	8.90E-02	3.40E-02		1.90E-02	1.10E-02		<	1.10E-02	U	3.40E-02	3.30E-02		<	1.20E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.50E-01	2.10E-02		2.80E-03	1.10E-02	J	<	1.10E-02	U	3.40E-01	3.40E-02		7.30E-02	1.10E-02		<	1.10E-02	U	1.40E-01	3.30E-02		5.00E-03	1.20E-02	J
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	2.80E-01	U	<	5.70E-02	U	<	5.70E-02	U	<	2.80E-01	U	<	5.80E-02	U
PCB-1221	ND	0 / 234	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	2.80E-01	U	<	5.70E-02	U	<	5.70E-02	U	<	2.80E-01	U	<	5.80E-02	U
PCB-1232	ND	0 / 234	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	2.80E-01	U	<	5.70E-02	U	<	5.70E-02	U	<	2.80E-01	U	<	5.80E-02	U
PCB-1242	ND	0 / 234	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	2.80E-01	U	<	5.70E-02	U	<	5.70E-02	U	<	2.80E-01	U	<	5.80E-02	U
PCB-1248	ND	0 / 234	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	2.80E-01	U	<	5.70E-02	U	<	5.70E-02	U	<	2.80E-01	U	<	5.80E-02	U
PCB-1254	ND	0 / 234	<	5.30E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	2.80E-01	U	<	5.70E-02	U	<	5.70E-02	U	<	2.80E-01	U	<	5.80E-02	U
PCB-1260	4.50E+00	36 / 234	5.20E-01	5.30E-02		<	5.60E-02	U	<	5.60E-02	U	9.70E-01	2.80E-01		4.10E-01	5.70E-02		<	5.70E-02	U	1.30E+00	2.80E-01		<	5.80E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	5.80E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U	2.30E+01	2.30E+01		<	1.10E+01	U	<	1.10E+01	U	9.20E+00	2.20E+01	J	<	1.20E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	8.80E-01	U	<	1.10E+00	U	<	9.60E-01	U	<	1.00E+00	U	<	9.90E-01	U	<	8.30E-01	U	<	1.10E+00	U	<	9.70E-01	U
Oil Range Organics	3.00E+02	65 / 234	5.20E+01	2.10E+01		<	2.20E+01	U	<	2.20E+01	U	3.00E+02	4.50E+01		2.00E+01	2.30E+01	J	<	2.30E+01	U	2.10E+02	4.40E+01		<	2.30E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	2.28E+02	5.24E-01		1.00E+01	5.39E-01		6.03E+00	5.59E-01		3.01E+01	5.36E-01		1.04E+01	5.57E-01		4.72E+00	5.63E-01		7.26E+01	5.35E-01		1.51E+01	5.36E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB62-010			CA507-SS63-001			CA507-SB63-005			CA507-SB63-010			CA507-SB64-010			CA507-SB64-015			CA507-SB65-010			CA507-SB65-015		
DATE COLLECTED			February 4, 2013			February 4, 2013			February 4, 2013			February 4, 2013			February 8, 2013			February 8, 2013			February 8, 2013			February 8, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	4.90E-03	U	<	5.50E-03	U	<	5.10E-03	U	<	4.80E-03	U	<	5.10E-03	U	<	4.80E-03	U	<	4.70E-03	U	<	5.20E-03	U
Ethylbenzene	ND	0 / 234	<	4.90E-03	U	<	5.50E-03	U	<	5.10E-03	U	<	4.80E-03	U	<	5.10E-03	U	<	4.80E-03	U	<	4.70E-03	U	<	5.20E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	9.70E-03	U	<	1.10E-02	U	<	1.00E-02	U	<	9.60E-03	U	<	1.00E-02	U	<	9.50E-03	U	<	9.40E-03	U	<	1.00E-02	U
Naphthalene	1.00E-02	1 / 234	<	4.90E-03	U	<	5.50E-03	U	<	5.10E-03	U	<	4.80E-03	U	<	5.10E-03	U	<	4.80E-03	U	<	4.70E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	4.90E-03	U	<	5.50E-03	U	<	5.10E-03	U	<	4.80E-03	U	<	5.10E-03	U	<	4.80E-03	U	<	4.70E-03	U	<	5.20E-03	U
Toluene	2.70E-03	1 / 234	<	4.90E-03	U	<	5.50E-03	U	<	5.10E-03	U	<	4.80E-03	U	<	5.10E-03	U	<	4.80E-03	U	<	4.70E-03	U	<	5.20E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	3.20E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	4.50E-01	3.20E-02		<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	6.70E-01	3.20E-02		5.40E-03	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	1.30E+00	3.20E-02		3.60E-03	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	2.90E-01	3.20E-02		<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	7.00E-01	3.20E-02		<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	9.60E-02	3.20E-02		<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	4.60E-01	3.20E-02		4.90E-03	1.20E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.70E-02	U	<	2.70E-01	U	<	5.80E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 234	<	5.70E-02	U	<	2.70E-01	U	<	5.80E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 234	<	5.70E-02	U	<	2.70E-01	U	<	5.80E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 234	<	5.70E-02	U	<	2.70E-01	U	<	5.80E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 234	<	5.70E-02	U	<	2.70E-01	U	<	5.80E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 234	<	5.70E-02	U	<	2.70E-01	U	<	5.80E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.70E-02	U	1.30E+00	2.70E-01		1.20E-01	5.80E-02		<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	2.10E+01	2.20E+01	J	<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	9.60E-01	U	6.40E-01	1.10E+00	J	<	9.90E-01	U	<	9.30E-01	U	<	9.40E-01	U	<	1.00E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.30E+01	U	1.80E+02	4.30E+01		1.20E+01	2.30E+01	J	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.30E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	3.67E+00	5.61E-01		7.13E+01	5.18E-01		9.85E+00	5.78E-01		5.43E+00	5.34E-01		6.86E+00	5.52E-01		5.26E+00	5.32E-01		4.88E+00	5.17E-01		5.21E+00	5.54E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB66-010			CA507-SB66-015			CA507-SB67-010			CA507-SB67-015			CA507-SB68-010			CA507-SB68-015			CA507-SB69-010			CA507-SB69-015		
DATE COLLECTED			February 8, 2013			February 8, 2013			February 8, 2013			February 8, 2013			February 10, 2013			February 10, 2013			February 10, 2013			February 10, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	4.50E-03	U	<	4.60E-03	U	<	5.50E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.90E-03	U
Ethylbenzene	ND	0 / 234	<	4.50E-03	U	<	4.60E-03	U	<	5.50E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.90E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	9.10E-03	U	<	9.20E-03	U	<	1.10E-02	U	<	1.00E-02	U	<	9.60E-03	U	<	1.10E-02	U	<	1.10E-02	U	<	9.90E-03	U
Naphthalene	1.00E-02	1 / 234	<	4.50E-03	U	<	4.60E-03	U	<	5.50E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	4.50E-03	U	<	4.60E-03	U	<	5.50E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.90E-03	U
Toluene	2.70E-03	1 / 234	<	4.50E-03	U	<	4.60E-03	U	<	5.50E-03	U	<	5.00E-03	U	<	4.80E-03	U	<	5.30E-03	U	<	5.40E-03	U	<	4.90E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1221	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1232	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1242	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1248	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1254	ND	0 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.60E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	2.00E+00	U	<	2.20E+00	U	<	1.10E+00	U	<	9.60E-01	U	<	2.10E+00	U	<	2.20E+00	U	<	2.30E+00	U	<	2.00E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	5.67E+00	5.53E-01		7.25E+00	5.39E-01		4.75E+00	5.28E-01		5.54E+00	5.43E-01		5.22E+00	5.40E-01		6.67E+00	5.34E-01		7.15E+00	5.29E-01		6.69E+00	5.61E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB70-010			CA507-SB70-015			CA507-SB71-010			CA507-SB71-013			CA507-SB72-010			CA507-SB72-015			CA507-SB73-010			CA507-SB73-015		
DATE COLLECTED			February 12, 2013			February 12, 2013			February 12, 2013			February 12, 2013			February 13, 2013			February 13, 2013			February 13, 2013			February 13, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)																										
Benzene	ND	0 / 234	<	4.80E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	5.00E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
Ethylbenzene	ND	0 / 234	<	4.80E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	5.00E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	1.20E-02	9.70E-03		<	9.90E-03	U	<	1.10E-02	U	<	9.80E-03	U	<	1.00E-02	U	<	1.00E-02	U	<	1.00E-02	U	<	9.40E-03	U
Naphthalene	1.00E-02	1 / 234	1.00E-02	4.80E-03		<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	5.00E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	1.90E-02	4.80E-03		<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	5.00E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
Toluene	2.70E-03	1 / 234	<	4.80E-03	U	<	5.00E-03	U	<	5.30E-03	U	<	4.90E-03	U	<	5.00E-03	U	<	5.10E-03	U	<	5.20E-03	U	<	4.70E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)																										
2-Methylnaphthalene	3.70E-02	17 / 234	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	1.70E-02	1.10E-02		1.20E-02	1.10E-02		3.10E-03	1.10E-02	J	6.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	2.10E-02	1.10E-02		1.80E-02	1.10E-02		6.30E-03	1.10E-02	J	8.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	3.10E-02	1.10E-02		2.40E-02	1.10E-02		5.50E-03	1.10E-02	J	1.10E-02	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	8.40E-03	1.10E-02	J	6.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	2.00E-02	1.10E-02		8.30E-03	1.10E-02	J	3.20E-03	1.10E-02	J	6.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	5.90E-03	1.10E-02	J	5.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	1.40E-02	1.10E-02		1.10E-02	1.10E-02	J	5.00E-03	1.10E-02	J	6.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)																										
PCB-1016	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.60E-02	U	<	5.50E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.60E-02	U	<	5.50E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.60E-02	U	<	5.80E-02	U	<	5.60E-02	U	<	5.50E-02	U
PETROLEUM HYDROCARBONS (mg/kg)																										
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U	<	1.20E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	9.70E-01	U	<	9.70E-01	U	<	9.90E-01	U	<	1.10E+00	U	<	1.20E+00	U	<	1.00E+00	U	<	9.80E-01	U	<	1.10E+00	U
Oil Range Organics	3.00E+02	65 / 234	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.20E+01	U	<	2.30E+01	U	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)																										
Lead	3.00E+02	234 / 234	6.47E+00	5.46E-01		4.93E+00	5.39E-01		9.78E+00	5.56E-01		2.23E+01	5.61E-01		5.05E+00	5.26E-01		4.76E+00	5.70E-01		6.29E+00	5.24E-01		4.81E+00	5.39E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
FORMER POL YARD REFUELING AREA (SS-C507)

FIELD ID			CA507-SB74-010			CA507-SB74-015		
DATE COLLECTED			February 14, 2013			February 14, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)								
Benzene	ND	0 / 234	<	5.00E-03	U	<	4.80E-03	U
Ethylbenzene	ND	0 / 234	<	5.00E-03	U	<	4.80E-03	U
m,p-Xylene (sum of isomers)	1.20E-02	5 / 234	<	1.00E-02	U	<	9.50E-03	U
Naphthalene	1.00E-02	1 / 234	<	5.00E-03	U	<	4.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	1.90E-02	2 / 234	<	5.00E-03	U	<	4.80E-03	U
Toluene	2.70E-03	1 / 234	<	5.00E-03	U	<	4.80E-03	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)								
2-Methylnaphthalene	3.70E-02	17 / 234	3.60E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)anthracene	3.10E+00	73 / 234	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	3.30E+00	81 / 234	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	5.60E+00	86 / 234	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	1.90E+00	62 / 234	<	1.10E-02	U	<	1.10E-02	U
Chrysene	4.20E+00	71 / 234	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	4.60E-01	46 / 234	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.60E+00	79 / 234	<	1.10E-02	U	<	1.10E-02	U
POLYCHLORINATED BIPHENYLS (mg/kg)								
PCB-1016	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U
PCB-1221	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U
PCB-1232	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U
PCB-1242	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U
PCB-1248	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U
PCB-1254	ND	0 / 234	<	5.60E-02	U	<	5.40E-02	U
PCB-1260	4.50E+00	36 / 234	<	5.60E-02	U	<	5.40E-02	U
PETROLEUM HYDROCARBONS (mg/kg)								
Diesel Range Organics	6.70E+01	37 / 234	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.10E+00	5 / 234	<	1.00E+00	U	<	9.30E-01	U
Oil Range Organics	3.00E+02	65 / 234	1.60E+01	2.20E+01	J	<	2.20E+01	U
METALS (mg/kg)								
Lead	3.00E+02	234 / 234	6.65E+00	5.62E-01		5.43E+00	5.29E-01	

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS01-001			CA508-SB01-004			CA508-SB01-009		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1,1-Trichloroethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1,2-Trichloroethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1-Dichloroethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1-Dichloroethene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1-Dichloropropene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2,3-Trichlorobenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2,3-Trichloropropane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2,4-Trichlorobenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2,4-Trimethylbenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.00E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dichlorobenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dichloroethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dichloroethene (cis)	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dichloroethene (trans)	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dichloropropane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,3-Dichlorobenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,3-Dichloropropane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,4-Dichlorobenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
2,2-Dichloropropane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
2-Chlorotoluene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
2-Hexanone	ND	0 / 33	<	2.60E-02	U	<	2.10E-02	U	<	2.10E-02	U
4-Chlorotoluene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
4-Methyl-2-Pentanone	ND	0 / 33	<	2.60E-02	U	<	2.10E-02	U	<	2.10E-02	U
Acetone	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Bromobenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Bromochloromethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Bromodichloromethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Bromoform	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Bromomethane	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.00E-02	U
Carbon Disulfide	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Carbon Tetrachloride	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Chlorobenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Chloroethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Chloroform	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS01-001			CA508-SB01-004			CA508-SB01-009		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.00E-02	U
cis-1,3-Dichloropropene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Dibromochloromethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Dibromomethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Dichlorodifluoromethane	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.00E-02	U
Ethylbenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Hexachlorobutadiene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Isopropylbenzene (Cumene)	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.00E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.00E-02	U
Methylene Chloride	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
n-Butylbenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
n-Propylbenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
sec-Butylbenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Styrene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
t-Butylbenzene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Tetrachloroethene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Toluene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
trans-1,3-Dichloropropene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Trichloroethene	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Trichlorofluoromethane	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
Vinyl Chloride	ND	0 / 33	<	6.50E-03	U	<	5.30E-03	U	<	5.20E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
1,2-Dichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
1,3-Dichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
1,4-Dichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
2,4,5-Trichlorophenol	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
2,4,6-Trichlorophenol	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
2,4-Dichlorophenol	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
2,4-Dimethylphenol	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
2,4-Dinitrophenol	ND	0 / 33	<	2.10E+00	U	<	1.40E+00	U	<	7.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
2-Chloronaphthalene	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
2-Chlorophenol	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
2-Methylphenol (o-cresol)	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS01-001			CA508-SB01-004			CA508-SB01-009		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
2-Nitrophenol	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
3-Nitroaniline	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 33	<	2.10E+00	U	<	1.40E+00	U	<	7.00E-01	U
4-Bromophenyl-phenylether	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
4-Chloro-3-methylphenol	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
4-Chlorophenyl-phenylether	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
4-Methylphenol (p-cresol)	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
4-Nitroaniline	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
4-Nitrophenol	ND	0 / 33	<	2.10E+00	U	<	1.40E+00	U	<	7.00E-01	U
Benzyl Alcohol	ND	0 / 33	<	4.20E+00	U	<	2.70E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
bis(2-Chloroethyl)ether	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Butylbenzylphthalate	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Carbazole	6.00E-01	1 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Diethylphthalate	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Dimethylphthalate	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Di-n-butylphthalate	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Di-n-octylphthalate	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Hexachlorobenzene	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Hexachlorobutadiene	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Hexachloroethane	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Isophorone	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Nitrobenzene	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
N-Nitrosodimethylamine	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
N-Nitrosodiphenylamine	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Pentachlorophenol	ND	0 / 33	<	2.10E+00	U	<	1.40E+00	U	<	7.00E-01	U
Phenol	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
Unknown	ND	0 / 33	<	1.10E+00	U	<	6.90E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.70E-01	4 / 33	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.70E-02	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	2.70E-02	3.30E-02	J	9.50E-03	2.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	3.40E-02	3.30E-02		6.30E-03	2.10E-02	J	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS01-001			CA508-SB01-004			CA508-SB01-009		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(g,h,i)perylene	1.10E+00	15 / 33	2.30E-02	3.30E-02	J	7.00E-03	2.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	9.30E-03	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	1.40E-02	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	3.60E-02	3.30E-02		6.60E-03	2.10E-02	J	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	2.10E-02	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	<	3.30E-02	U	<	2.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	2.00E-02	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	3.10E-02	3.30E-02	J	<	2.10E-02	U	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)											
4,4-DDD	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
4,4-DDE	4.80E-03	3 / 33	4.80E-03	4.30E-03		<	4.20E-03	U	<	4.20E-03	U
4,4-DDT	1.20E-02	8 / 33	1.20E-02	4.30E-03		<	4.20E-03	U	<	4.20E-03	U
Aldrin	ND	0 / 33	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-BHC	ND	0 / 33	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-Chlordane	3.40E-03	1 / 33	3.40E-03	2.20E-03		<	2.10E-03	U	<	2.10E-03	U
beta-BHC	ND	0 / 33	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
delta-BHC	ND	0 / 33	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endosulfan I	ND	0 / 33	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
Endosulfan II	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endosulfan sulfate	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endrin	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endrin aldehyde	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endrin ketone	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
gamma-BHC (Lindane)	ND	0 / 33	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
gamma-Chlordane	1.90E-03	1 / 33	1.90E-03	2.20E-03	J	<	2.10E-03	U	<	2.10E-03	U
Heptachlor	ND	0 / 33	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	<	2.20E-03	U	2.50E-03	2.10E-03		<	2.10E-03	U
Methoxychlor	ND	0 / 33	<	2.20E-02	U	<	2.10E-02	U	<	2.10E-02	U
POLYCHLORINATED BIPHENYLS (PCB) (mg/kg)											
PCB-1016	ND	0 / 33	<	5.40E-02	U	<	5.20E-02	U	<	5.30E-02	U
PCB-1221	ND	0 / 33	<	5.40E-02	U	<	5.20E-02	U	<	5.30E-02	U
PCB-1232	ND	0 / 33	<	5.40E-02	U	<	5.20E-02	U	<	5.30E-02	U
PCB-1242	ND	0 / 33	<	5.40E-02	U	<	5.20E-02	U	<	5.30E-02	U
PCB-1248	ND	0 / 33	<	5.40E-02	U	<	5.20E-02	U	<	5.30E-02	U
PCB-1254	ND	0 / 33	<	5.40E-02	U	<	5.20E-02	U	<	5.30E-02	U
PCB-1260	ND	0 / 33	<	5.40E-02	U	<	5.20E-02	U	<	5.30E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS01-001			CA508-SB01-004			CA508-SB01-009		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (mg/kg)											
1,3,5-Trinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
1,3-Dinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4,6-Trinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Amino-4,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
3-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Amino-2,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
HMX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Nitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
RDX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Tetryl	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	1.20E+01	7 / 33	1.20E+01	1.10E+01		<	1.00E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	<	1.30E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	1.60E+02	18 / 33	1.10E+02	2.20E+01		2.50E+01	2.10E+01		<	2.10E+01	U
METALS (mg/kg)											
Arsenic	5.59E+00	33 / 33	3.55E+00	5.27E-01		3.37E+00	5.08E-01		2.70E+00	5.22E-01	
Barium	8.44E+02	33 / 33	1.54E+02	5.27E-01		1.05E+02	5.08E-01		3.66E+02	5.22E-01	
Cadmium	3.79E+00	33 / 33	3.79E+00	5.27E-01		1.57E+00	5.08E-01		2.44E-01	5.22E-01	J
Chromium	1.89E+01	33 / 33	1.89E+01	5.27E-01		1.13E+01	5.08E-01		6.77E+00	5.22E-01	
Lead	3.13E+01	33 / 33	3.13E+01	5.27E-01		1.70E+01	5.08E-01		4.63E+00	5.22E-01	
Mercury	2.71E-02	3 / 33	2.08E-02	1.07E-01	J	<	1.03E-01	U	<	1.05E-01	U
Selenium	3.00E-01	24 / 33	1.64E-01	5.27E-01	J	7.58E-02	5.08E-01	J	<	5.22E-01	U
Silver	1.09E+00	12 / 33	8.60E-01	5.27E-01		1.54E-01	5.08E-01	J	<	5.22E-01	U
DIOXINS/FURANS (ng/kg)											
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	4.63E+02	2.66E+00		1.73E+02	2.61E+00		7.84E+00	2.58E+00	
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	1.54E+01	2.66E+00		4.90E+00	2.61E+00	J	<	2.58E+00	U
1,2,3,4,7,8,9-HpCDF	ND	0 / 33	<	2.66E+00	U	<	2.61E+00	UJ	<	2.58E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	6.03E+00	2.66E+00		2.29E+00	2.61E+00	J	<	2.58E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	2.30E+00	2.66E+00	J	1.22E+00	2.61E+00	J	<	2.58E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01	10 / 33	1.66E+01	2.66E+00	J	5.67E+00	2.61E+00		<	2.58E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	2.24E+00	2.66E+00	J	7.85E-01	2.61E+00	J	<	2.58E+00	U
1,2,3,7,8,9-Hexachlorodibenzofuran	ND	0 / 33	<	2.66E+00	U	<	2.61E+00	U	<	2.58E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	1.82E+01	2.66E+00		6.01E+00	2.61E+00		<	2.58E+00	U
1,2,3,7,8,9-HxCDF	9.33E+02	16 / 33	9.33E+02	2.66E+00		3.46E+02	2.61E+00		1.52E+01	2.58E+00	

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS01-001			CA508-SB01-004			CA508-SB01-009		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	2.21E+00	2.66E+00	J	1.26E+00	2.61E+00	J	<	2.58E+00	U
1,2,3,7,8-PeCDF	ND	0 / 33	<	2.66E+00	U	<	2.61E+00	U	<	2.58E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	3.71E+00	2.66E+00		1.10E+00	2.61E+00	J	<	2.58E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	1.23E+00	2.66E+00	J	6.62E-01	2.61E+00	J	<	2.58E+00	U
2,3,7,8-TCDD	ND	0 / 33	<	5.33E-01	U	<	5.22E-01	U	<	5.17E-01	U
2,3,7,8-TCDF	ND	0 / 33	<	5.33E-01	U	<	5.22E-01	U	<	5.17E-01	U
Dioxins/Furans	1.31E+01	23 / 33	1.31E+01	1.31E+01		5.31E+00	5.31E+00		9.51E-02	9.51E-02	
Heptachlorinated Dibenzofurans, (total)	3.91E+01	12 / 33	3.91E+01	2.66E+00		<	2.61E+00	U	<	2.58E+00	U
Hexachlorinated Dibenzofurans, (total)	5.34E+01	12 / 33	5.34E+01	2.66E+00		1.04E+01	2.61E+00		<	2.58E+00	U
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	14 / 33	1.54E+02	2.66E+00		5.46E+01	2.61E+00		<	2.58E+00	U
OCDD	2.75E+03	23 / 33	2.75E+03	5.33E+00	J	1.21E+03	5.22E+00	J	5.55E+01	5.17E+00	
OCDF	1.99E+01	11 / 33	1.99E+01	5.33E+00		7.15E+00	5.22E+00		<	5.17E+00	U
Pentachlorinated Dibenzofurans, (total)	7.87E+01	16 / 33	7.87E+01	2.66E+00		9.27E+00	2.61E+00		<	2.58E+00	U
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	5 / 33	1.47E+01	2.66E+00		3.08E+00	2.61E+00		6.46E-01	2.58E+00	J
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	9 / 33	2.26E+01	5.33E-01		2.07E+00	5.62E-01		<	5.17E-01	U
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	1 / 33	1.85E+00	5.33E-01		<	5.22E-01	U	<	5.17E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB01-015			CA508-SB01-020			CA508-SS02-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1,1-Trichloroethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1,2-Trichloroethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1-Dichloroethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1-Dichloroethene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,1-Dichloropropene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2,3-Trichlorobenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2,3-Trichloropropane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2,4-Trichlorobenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2,4-Trimethylbenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dichlorobenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dichloroethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dichloroethene (cis)	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dichloroethene (trans)	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,2-Dichloropropane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,3-Dichlorobenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,3-Dichloropropane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
1,4-Dichlorobenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
2,2-Dichloropropane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
2-Chlorotoluene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
2-Hexanone	ND	0 / 33	<	2.20E-02	U	<	2.10E-02	U	<	2.10E-02	U
4-Chlorotoluene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
4-Methyl-2-Pentanone	ND	0 / 33	<	2.20E-02	U	<	2.10E-02	U	<	2.10E-02	U
Acetone	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Bromobenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Bromochloromethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Bromodichloromethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Bromoform	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Bromomethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Carbon Disulfide	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Carbon Tetrachloride	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Chlorobenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Chloroethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Chloroform	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB01-015			CA508-SB01-020			CA508-SS02-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
cis-1,3-Dichloropropene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Dibromochloromethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Dibromomethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Dichlorodifluoromethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Ethylbenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Hexachlorobutadiene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Isopropylbenzene (Cumene)	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Methylene Chloride	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
n-Butylbenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
n-Propylbenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
sec-Butylbenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Styrene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
t-Butylbenzene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Tetrachloroethene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Toluene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
trans-1,3-Dichloropropene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Trichloroethene	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Trichlorofluoromethane	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
Vinyl Chloride	ND	0 / 33	<	5.40E-03	U	<	5.30E-03	U	<	5.20E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
1,2-Dichlorobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
1,3-Dichlorobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
1,4-Dichlorobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4,5-Trichlorophenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4,6-Trichlorophenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4-Dichlorophenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4-Dimethylphenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4-Dinitrophenol	ND	0 / 33	<	7.10E-01	U	<	7.10E-01	U	<	7.30E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Chloronaphthalene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Chlorophenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Methylphenol (o-cresol)	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB01-015			CA508-SB01-020			CA508-SS02-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Nitrophenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
3-Nitroaniline	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 33	<	7.10E-01	U	<	7.10E-01	U	<	7.30E-01	U
4-Bromophenyl-phenylether	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Chloro-3-methylphenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Chlorophenyl-phenylether	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Methylphenol (p-cresol)	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Nitroaniline	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Nitrophenol	ND	0 / 33	<	7.10E-01	U	<	7.10E-01	U	<	7.30E-01	U
Benzyl Alcohol	ND	0 / 33	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
bis(2-Chloroethyl)ether	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Butylbenzylphthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Carbazole	6.00E-01	1 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dibenzofuran	4.70E-01	1 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Diethylphthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dimethylphthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-butylphthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-octylphthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Hexachlorobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Hexachlorobutadiene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Hexachloroethane	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Isophorone	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Nitrobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
N-Nitrosodimethylamine	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
N-Nitrosodiphenylamine	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Pentachlorophenol	ND	0 / 33	<	7.10E-01	U	<	7.10E-01	U	<	7.30E-01	U
Phenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Unknown	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.70E-01	4 / 33	<	1.10E-02	U	5.00E-03	1.10E-02	J	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	<	1.10E-02	U	<	1.10E-02	U	9.60E-03	1.10E-02	J
Benzo(a)pyrene	2.00E+00	16 / 33	<	1.10E-02	U	4.30E-03	1.10E-02	J	1.50E-02	1.10E-02	
Benzo(b)fluoranthene	2.50E+00	16 / 33	<	1.10E-02	U	<	1.10E-02	U	2.00E-02	1.10E-02	

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB01-015			CA508-SB01-020			CA508-SS02-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(g,h,i)perylene	1.10E+00	15 / 33	<	1.10E-02	U	4.50E-03	1.10E-02	J	1.10E-02	1.10E-02	J
Benzo(k)fluoranthene	8.70E-01	12 / 33	<	1.10E-02	U	<	1.10E-02	U	6.50E-03	1.10E-02	J
Chrysene	2.40E+00	12 / 33	<	1.10E-02	U	<	1.10E-02	U	1.10E-02	1.10E-02	J
Dibenz(a,h)anthracene	2.50E-01	5 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	<	1.10E-02	U	<	1.10E-02	U	2.40E-02	1.10E-02	
Fluorene	5.00E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	<	1.10E-02	U	4.70E-03	1.10E-02	J	1.10E-02	1.10E-02	
Naphthalene	3.40E-01	4 / 33	<	1.10E-02	U	3.40E-03	1.10E-02	J	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	<	1.10E-02	U	<	1.10E-02	U	1.20E-02	1.10E-02	
Pyrene	3.00E-01	13 / 32	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	1.10E-02	
PESTICIDES (ORGANOCHLORINE) (mg/kg)											
4,4-DDD	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
4,4-DDE	4.80E-03	3 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
4,4-DDT	1.20E-02	8 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
Aldrin	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
alpha-BHC	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
alpha-Chlordane	3.40E-03	1 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
beta-BHC	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
delta-BHC	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Dieldrin	8.10E-03	3 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
Endosulfan I	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Endosulfan II	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
Endosulfan sulfate	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
Endrin	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
Endrin aldehyde	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
Endrin ketone	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.40E-03	U
gamma-BHC (Lindane)	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
gamma-Chlordane	1.90E-03	1 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Heptachlor	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Methoxychlor	ND	0 / 33	<	2.20E-02	U	<	2.20E-02	U	<	2.20E-02	U
POLYCHLORINATED BIPHENYLS (PCB) (mg/kg)											
PCB-1016	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1260	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.50E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB01-015			CA508-SB01-020			CA508-SS02-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (mg/kg)											
1,3,5-Trinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
1,3-Dinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4,6-Trinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Amino-4,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
3-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Amino-2,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
HMX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Nitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
RDX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Tetryl	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	1.20E+01	7 / 33	<	1.10E+01	U	2.70E+00	1.10E+01	J	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	<	9.90E-01	U	<	1.10E+00	U	<	1.20E+00	U
Oil Range Organics	1.60E+02	18 / 33	6.20E+00	2.20E+01	J	1.70E+01	2.20E+01	J	3.00E+01	2.20E+01	
METALS (mg/kg)											
Arsenic	5.59E+00	33 / 33	2.91E+00	5.29E-01		3.91E+00	5.30E-01		3.46E+00	5.51E-01	
Barium	8.44E+02	33 / 33	7.56E+02	5.29E-01		2.23E+02	5.30E-01	J	1.07E+02	5.51E-01	
Cadmium	3.79E+00	33 / 33	6.35E-01	5.29E-01		2.34E+00	5.30E-01	J	3.45E-01	5.51E-01	J
Chromium	1.89E+01	33 / 33	9.49E+00	5.29E-01		1.23E+01	5.30E-01		1.56E+01	5.51E-01	
Lead	3.13E+01	33 / 33	7.89E+00	5.29E-01		1.59E+01	5.30E-01	J	1.20E+01	5.51E-01	
Mercury	2.71E-02	3 / 33	<	1.06E-01	U	<	1.07E-01	U	<	1.09E-01	U
Selenium	3.00E-01	24 / 33	<	5.29E-01	U	<	5.30E-01	U	1.47E-01	5.51E-01	J
Silver	1.09E+00	12 / 33	<	5.29E-01	U	7.85E-02	5.30E-01	J	1.09E+00	5.51E-01	
DIOXINS/FURANS (ng/kg)											
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	6.03E+01	2.68E+00		2.00E+02	2.58E+00		1.36E+01	2.75E+00	
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	1.93E+00	2.68E+00	J	7.79E+00	2.58E+00		2.08E+00	2.75E+00	J
1,2,3,4,7,8,9-HpCDF	ND	0 / 33	<	2.68E+00	U	<	2.58E+00	U	<	2.75E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	1.11E+00	2.68E+00	J	2.26E+00	2.58E+00	J	<	2.75E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	<	2.68E+00	UJ	1.51E+00	2.58E+00	J	<	2.75E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01	10 / 33	2.31E+00	2.68E+00	J	6.86E+00	2.58E+00		<	2.75E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	<	2.68E+00	U	1.05E+00	2.58E+00	J	<	2.75E+00	U
1,2,3,7,8,9-Hexachlorodibenzofuran	ND	0 / 33	<	2.68E+00	U	<	2.58E+00	U	<	2.75E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	2.12E+00	2.68E+00	J	6.13E+00	2.58E+00		<	2.75E+00	U
1,2,3,7,8,9-HxCDF	9.33E+02	16 / 33	1.17E+02	2.68E+00		3.92E+02	2.58E+00		1.36E+01	2.75E+00	

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB01-015			CA508-SB01-020			CA508-SS02-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	<	2.68E+00	U	<	2.58E+00	U	<	2.75E+00	U
1,2,3,7,8-PeCDF	ND	0 / 33	<	2.68E+00	U	<	2.58E+00	U	<	2.75E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	<	2.68E+00	UJ	1.06E+00	2.58E+00	J	1.15E+00	2.75E+00	J
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	<	2.68E+00	U	<	2.58E+00	U	<	2.75E+00	U
2,3,7,8-TCDD	ND	0 / 33	<	5.37E-01	U	<	5.17E-01	U	<	5.49E-01	U
2,3,7,8-TCDF	ND	0 / 33	<	5.37E-01	U	<	7.50E-01	U	<	5.49E-01	U
Dioxins/Furans	1.31E+01	23 / 33	1.29E+00	1.29E+00		4.40E+00	4.40E+00		3.03E-01	3.03E-01	
Heptachlorinated Dibenzofurans, (total)	3.91E+01	12 / 33	1.93E+00	2.68E+00	J	1.53E+01	2.58E+00		2.08E+00	2.75E+00	J
Hexachlorinated Dibenzofurans, (total)	5.34E+01	12 / 33	<	2.68E+00	U	9.38E+00	2.58E+00		1.63E+01	2.75E+00	
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	14 / 33	1.79E+01	2.68E+00		5.65E+01	2.58E+00		<	2.75E+00	U
OCDD	2.75E+03	23 / 33	3.77E+02	5.37E+00		1.46E+03	5.17E+00		1.03E+02	5.49E+00	
OCDF	1.99E+01	11 / 33	2.62E+00	5.37E+00	J	6.33E+00	5.17E+00		2.40E+00	5.49E+00	J
Pentachlorinated Dibenzofurans, (total)	7.87E+01	16 / 33	1.48E+00	2.68E+00	J	3.84E+00	2.58E+00		2.91E+01	2.75E+00	
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	5 / 33	<	2.68E+00	U	2.53E+00	2.58E+00	J	<	2.75E+00	U
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	9 / 33	<	5.37E-01	U	2.73E+00	6.34E-01		1.81E+00	5.49E-01	
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	1 / 33	<	5.37E-01	U	<	5.17E-01	U	<	5.49E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB02-003			CA508-SB02-010			CA508-SB02-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,1,1-Trichloroethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,1,2-Trichloroethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,1-Dichloroethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,1-Dichloroethene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,1-Dichloropropene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,2,3-Trichlorobenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,2,3-Trichloropropane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,2,4-Trichlorobenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,2,4-Trimethylbenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,2-Dichlorobenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,2-Dichloroethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,2-Dichloroethene (cis)	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,2-Dichloroethene (trans)	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,2-Dichloropropane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,3-Dichlorobenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,3-Dichloropropane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
1,4-Dichlorobenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
2,2-Dichloropropane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
2-Chlorotoluene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
2-Hexanone	ND	0 / 33	<	2.20E-02	U	<	2.10E-02	U	<	2.10E-02	U
4-Chlorotoluene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
4-Methyl-2-Pentanone	ND	0 / 33	<	2.20E-02	U	<	2.10E-02	U	<	2.10E-02	U
Acetone	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Benzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Bromobenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Bromochloromethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Bromodichloromethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Bromoform	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Bromomethane	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Carbon Disulfide	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Carbon Tetrachloride	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Chlorobenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Chloroethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Chloroform	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB02-003			CA508-SB02-010			CA508-SB02-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
cis-1,3-Dichloropropene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Dibromochloromethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Dibromomethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Dichlorodifluoromethane	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Ethylbenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Hexachlorobutadiene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Isopropylbenzene (Cumene)	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Methylene Chloride	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.00E-02	U
Naphthalene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
n-Butylbenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
n-Propylbenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
sec-Butylbenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Styrene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
t-Butylbenzene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Tetrachloroethene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Toluene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
trans-1,3-Dichloropropene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Trichloroethene	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Trichlorofluoromethane	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
Vinyl Chloride	ND	0 / 33	<	5.50E-03	U	<	5.20E-03	U	<	5.20E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,2-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,3-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,4-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4,5-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4,6-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dimethylphenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dinitrophenol	ND	0 / 33	<	6.90E-01	U	<	7.10E-01	U	<	7.30E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Chloronaphthalene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Chlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Methylphenol (o-cresol)	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB02-003			CA508-SB02-010			CA508-SB02-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Nitrophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
3-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 33	<	6.90E-01	U	<	7.10E-01	U	<	7.30E-01	U
4-Bromophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Chloro-3-methylphenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Chlorophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Methylphenol (p-cresol)	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Nitrophenol	ND	0 / 33	<	6.90E-01	U	<	7.10E-01	U	<	7.30E-01	U
Benzyl Alcohol	ND	0 / 33	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
bis(2-Chloroethyl)ether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Butylbenzylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Carbazole	6.00E-01	1 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Dibenzofuran	4.70E-01	1 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Diethylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Dimethylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Di-n-butylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Di-n-octylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachlorobutadiene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachloroethane	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Isophorone	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Nitrobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitrosodimethylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitrosodiphenylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Pentachlorophenol	ND	0 / 33	<	6.90E-01	U	<	7.10E-01	U	<	7.30E-01	U
Phenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Unknown	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.70E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB02-003			CA508-SB02-010			CA508-SB02-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(g,h,i)perylene	1.10E+00	15 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)											
4,4-DDD	ND	0 / 33	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
4,4-DDE	4.80E-03	3 / 33	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
4,4-DDT	1.20E-02	8 / 33	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
Aldrin	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-Chlordane	3.40E-03	1 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
beta-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
delta-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Dieldrin	8.10E-03	3 / 33	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
Endosulfan I	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Endosulfan II	ND	0 / 33	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
Endosulfan sulfate	ND	0 / 33	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
Endrin	ND	0 / 33	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
Endrin aldehyde	ND	0 / 33	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
Endrin ketone	ND	0 / 33	<	4.20E-03	U	<	4.30E-03	U	<	4.40E-03	U
gamma-BHC (Lindane)	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
gamma-Chlordane	1.90E-03	1 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Methoxychlor	ND	0 / 33	<	2.10E-02	U	<	2.10E-02	U	<	2.20E-02	U
POLYCHLORINATED BIPHENYLS (PCB) (mg/kg)											
PCB-1016	ND	0 / 33	<	5.30E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1221	ND	0 / 33	<	5.30E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1232	ND	0 / 33	<	5.30E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1242	ND	0 / 33	<	5.30E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1248	ND	0 / 33	<	5.30E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1254	ND	0 / 33	<	5.30E-02	U	<	5.40E-02	U	<	5.50E-02	U
PCB-1260	ND	0 / 33	<	5.30E-02	U	<	5.40E-02	U	<	5.50E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB02-003			CA508-SB02-010			CA508-SB02-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (mg/kg)											
1,3,5-Trinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
1,3-Dinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4,6-Trinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Amino-4,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
3-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Amino-2,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
HMX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Nitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
RDX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Tetryl	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	1.20E+01	7 / 33	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	<	1.10E+00	U	<	1.30E+00	U	<	1.00E+00	U
Oil Range Organics	1.60E+02	18 / 33	<	2.10E+01	U	<	2.10E+01	U	<	2.20E+01	U
METALS (mg/kg)											
Arsenic	5.59E+00	33 / 33	2.97E+00	4.92E-01		3.20E+00	5.25E-01		3.00E+00	5.38E-01	
Barium	8.44E+02	33 / 33	1.82E+02	4.92E-01		2.51E+02	5.25E-01		2.98E+02	5.38E-01	
Cadmium	3.79E+00	33 / 33	1.62E-01	4.92E-01	J	2.44E-01	5.25E-01	J	2.66E-01	5.38E-01	J
Chromium	1.89E+01	33 / 33	6.24E+00	4.92E-01		1.01E+01	5.25E-01		1.18E+01	5.38E-01	
Lead	3.13E+01	33 / 33	3.64E+00	4.92E-01		5.83E+00	5.25E-01		6.21E+00	5.38E-01	
Mercury	2.71E-02	3 / 33	<	1.05E-01	U	<	1.07E-01	U	<	1.08E-01	U
Selenium	3.00E-01	24 / 33	6.75E-02	4.92E-01	J	5.39E-02	5.25E-01	J	<	5.38E-01	U
Silver	1.09E+00	12 / 33	<	4.92E-01	U	<	5.25E-01	U	<	5.38E-01	U
DIOXINS/FURANS (ng/kg)											
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
1,2,3,4,7,8,9-HpCDF	ND	0 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01	10 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
1,2,3,7,8,9-Hexachlorodibenzofuran	ND	0 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
1,2,3,7,8,9-HxCDF	9.33E+02	16 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB02-003			CA508-SB02-010			CA508-SB02-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
1,2,3,7,8-PeCDF	ND	0 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
2,3,7,8-TCDD	ND	0 / 33	<	5.15E-01	U	<	5.23E-01	U	<	5.43E-01	U
2,3,7,8-TCDF	ND	0 / 33	<	5.15E-01	U	<	5.23E-01	U	<	5.43E-01	U
Dioxins/Furans	1.31E+01	23 / 33	<	3.03E-01	U	6.00E-04	6.00E-04		<	6.00E-04	U
Heptachlorinated Dibenzofurans, (total)	3.91E+01	12 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
Hexachlorinated Dibenzofurans, (total)	5.34E+01	12 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	14 / 33	<	2.57E+00	U	<	2.61E+00	U	6.45E-01	2.72E+00	J
OCDD	2.75E+03	23 / 33	<	5.15E+00	U	1.92E+00	5.23E+00	J	<	5.43E+00	U
OCDF	1.99E+01	11 / 33	<	5.15E+00	U	<	5.23E+00	U	<	5.43E+00	U
Pentachlorinated Dibenzofurans, (total)	7.87E+01	16 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	5 / 33	<	2.57E+00	U	<	2.61E+00	U	<	2.72E+00	U
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	9 / 33	<	5.15E-01	U	<	5.23E-01	U	<	5.43E-01	U
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	1 / 33	<	5.15E-01	U	<	5.23E-01	U	<	5.43E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS03-001			CA508-SB03-005			CA508-SB03-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,1,1-Trichloroethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,1,2-Trichloroethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,1-Dichloroethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,1-Dichloroethene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,1-Dichloropropene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,2,3-Trichlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,2,3-Trichloropropane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,2,4-Trichlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,2,4-Trimethylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,2-Dichlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,2-Dichloroethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,2-Dichloroethene (cis)	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,2-Dichloroethene (trans)	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,2-Dichloropropane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,3-Dichlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,3-Dichloropropane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
1,4-Dichlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
2,2-Dichloropropane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
2-Chlorotoluene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
2-Hexanone	ND	0 / 33	<	2.10E-02	U	<	2.10E-02	U	<	2.50E-02	U
4-Chlorotoluene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
4-Methyl-2-Pentanone	ND	0 / 33	<	2.10E-02	U	<	2.10E-02	U	<	2.50E-02	U
Acetone	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Benzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Bromobenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Bromochloromethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Bromodichloromethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Bromoform	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Bromomethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Carbon Disulfide	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Carbon Tetrachloride	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Chlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Chloroethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Chloroform	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS03-001			CA508-SB03-005			CA508-SB03-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
cis-1,3-Dichloropropene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Dibromochloromethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Dibromomethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Dichlorodifluoromethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Ethylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Hexachlorobutadiene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Isopropylbenzene (Cumene)	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Methylene Chloride	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Naphthalene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
n-Butylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
n-Propylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
sec-Butylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Styrene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
t-Butylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Tetrachloroethene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Toluene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
trans-1,3-Dichloropropene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Trichloroethene	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Trichlorofluoromethane	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
Vinyl Chloride	ND	0 / 33	<	5.30E-03	U	<	5.40E-03	U	<	6.30E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,2-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,3-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,4-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,5-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,6-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dimethylphenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dinitrophenol	ND	0 / 33	<	7.10E-01	U	<	6.90E-01	U	<	7.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chloronaphthalene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Methylphenol (o-cresol)	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS03-001			CA508-SB03-005			CA508-SB03-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Nitrophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
3-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 33	<	7.10E-01	U	<	6.90E-01	U	<	7.00E-01	U
4-Bromophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chloro-3-methylphenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chlorophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Methylphenol (p-cresol)	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitrophenol	ND	0 / 33	<	7.10E-01	U	<	6.90E-01	U	<	7.00E-01	U
Benzyl Alcohol	ND	0 / 33	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Chloroethyl)ether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Butylbenzylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Carbazole	6.00E-01	1 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Diethylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dimethylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-butylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-octylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobutadiene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachloroethane	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Isophorone	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Nitrobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodimethylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodiphenylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Pentachlorophenol	ND	0 / 33	<	7.10E-01	U	<	6.90E-01	U	<	7.00E-01	U
Phenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Unknown	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.70E-01	4 / 33	6.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	6.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	5.30E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	8.00E-02	1.10E-02		3.00E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	1.10E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.60E-01	1.10E-02		3.50E-03	1.10E-02	J	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS03-001			CA508-SB03-005			CA508-SB03-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(g,h,i)perylene	1.10E+00	15 / 33	7.80E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	5.60E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	1.20E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	2.80E-01	1.10E-02		4.10E-03	1.10E-02	J	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	4.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	6.60E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	3.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.60E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	2.20E-01	1.10E-02		3.60E-03	1.10E-02	J	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)											
4,4-DDD	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDE	4.80E-03	3 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDT	1.20E-02	8 / 33	2.60E-03	4.30E-03	J	<	4.20E-03	U	<	4.30E-03	U
Aldrin	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-Chlordane	3.40E-03	1 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
beta-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
delta-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	8.10E-03	4.30E-03		<	4.20E-03	U	<	4.30E-03	U
Endosulfan I	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Endosulfan II	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin aldehyde	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin ketone	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
gamma-Chlordane	1.90E-03	1 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Methoxychlor	ND	0 / 33	<	2.10E-02	U	<	2.10E-02	U	<	2.10E-02	U
POLYCHLORINATED BIPHENYLS (PCB) (mg/kg)											
PCB-1016	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1221	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1232	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1242	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1248	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1254	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1260	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS03-001			CA508-SB03-005			CA508-SB03-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (mg/kg)											
1,3,5-Trinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
1,3-Dinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4,6-Trinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Amino-4,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
3-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Amino-2,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
HMX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Nitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
RDX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Tetryl	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	1.20E+01	7 / 33	<	1.10E+01	UJ	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	<	1.30E+00	U	<	1.10E+00	U	<	1.10E+00	U
Oil Range Organics	1.60E+02	18 / 33	2.30E+01	2.10E+01		8.90E+00	2.10E+01	J	<	2.10E+01	U
METALS (mg/kg)											
Arsenic	5.59E+00	33 / 33	5.59E+00	5.20E-01		3.68E+00	5.01E-01		2.86E+00	5.06E-01	
Barium	8.44E+02	33 / 33	1.55E+02	5.20E-01		1.62E+02	5.01E-01		4.46E+02	5.06E-01	
Cadmium	3.79E+00	33 / 33	3.24E-01	5.20E-01	J	2.06E-01	5.01E-01	J	2.54E-01	5.06E-01	J
Chromium	1.89E+01	33 / 33	1.31E+01	5.20E-01		9.59E+00	5.01E-01		7.84E+00	5.06E-01	
Lead	3.13E+01	33 / 33	1.50E+01	5.20E-01		6.01E+00	5.01E-01		4.45E+00	5.06E-01	
Mercury	2.71E-02	3 / 33	<	1.06E-01	U	<	1.04E-01	U	<	1.05E-01	U
Selenium	3.00E-01	24 / 33	1.06E-01	5.20E-01	J	9.34E-02	5.01E-01	J	5.99E-02	5.06E-01	J
Silver	1.09E+00	12 / 33	5.66E-02	5.20E-01	J	<	5.01E-01	U	<	5.06E-01	U
DIOXINS/FURANS (ng/kg)											
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	1.72E+01	2.69E+00		9.33E-01	2.60E+00	J	<	2.58E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	2.35E+00	2.69E+00	J	<	2.60E+00	U	<	2.58E+00	U
1,2,3,4,7,8,9-HpCDF	ND	0 / 33	<	2.69E+00	U	<	2.60E+00	U	<	2.58E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	<	2.69E+00	U	<	2.60E+00	U	<	2.58E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	3.94E-01	2.69E+00	J	<	2.60E+00	U	<	2.58E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01	10 / 33	5.86E-01	2.69E+00	J	<	2.60E+00	U	<	2.58E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	<	2.69E+00	U	<	2.60E+00	U	<	2.58E+00	U
1,2,3,7,8,9-Hexachlorodibenzofuran	ND	0 / 33	<	2.69E+00	U	<	2.60E+00	U	<	2.58E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	<	2.69E+00	U	<	2.60E+00	U	<	2.58E+00	U
1,2,3,7,8,9-HxCDF	9.33E+02	16 / 33	5.75E+01	2.69E+00		<	2.60E+00	U	<	2.58E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS03-001			CA508-SB03-005			CA508-SB03-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	<	2.69E+00	U	<	2.60E+00	U	<	2.58E+00	U
1,2,3,7,8-PeCDF	ND	0 / 33	<	2.69E+00	U	<	2.60E+00	U	<	2.58E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	4.74E-01	2.69E+00	J	<	2.60E+00	U	<	2.58E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	3.05E-01	2.69E+00	J	<	2.60E+00	U	<	2.58E+00	U
2,3,7,8-TCDD	ND	0 / 33	<	5.38E-01	U	<	5.21E-01	U	<	5.15E-01	U
2,3,7,8-TCDF	ND	0 / 33	<	5.38E-01	U	<	5.21E-01	U	<	5.15E-01	U
Dioxins/Furans	1.31E+01	23 / 33	4.88E-01	4.83E-01		1.22E-02	1.22E-02		<	4.83E-01	U
Heptachlorinated Dibenzofurans, (total)	3.91E+01	12 / 33	<	2.69E+00	U	<	2.60E+00	U	<	2.58E+00	U
Hexachlorinated Dibenzofurans, (total)	5.34E+01	12 / 33	7.69E+00	2.69E+00		<	2.60E+00	U	<	2.58E+00	U
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	14 / 33	5.38E+00	2.69E+00		<	2.60E+00	U	<	2.58E+00	U
OCDD	2.75E+03	23 / 33	1.79E+02	5.38E+00		9.70E+00	5.21E+00		<	5.15E+00	U
OCDF	1.99E+01	11 / 33	5.40E+00	5.38E+00		<	5.21E+00	U	<	5.15E+00	U
Pentachlorinated Dibenzofurans, (total)	7.87E+01	16 / 33	1.02E+01	2.69E+00		<	2.60E+00	U	<	2.58E+00	U
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	5 / 33	<	2.69E+00	U	<	2.60E+00	U	<	2.58E+00	U
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	9 / 33	1.07E+00	5.38E-01		<	5.21E-01	U	<	5.15E-01	U
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	1 / 33	<	5.38E-01	U	<	5.21E-01	U	<	5.15E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB03-015			CA508-SS04-001			CA508-SB04-004		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,1,1-Trichloroethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,1,2-Trichloroethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,1-Dichloroethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,1-Dichloroethene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,1-Dichloropropene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,2,3-Trichlorobenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,2,3-Trichloropropane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,2,4-Trichlorobenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,2,4-Trimethylbenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,2-Dichlorobenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,2-Dichloroethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,2-Dichloroethene (cis)	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,2-Dichloroethene (trans)	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,2-Dichloropropane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,3-Dichlorobenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,3-Dichloropropane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
1,4-Dichlorobenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
2,2-Dichloropropane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
2-Chlorotoluene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
2-Hexanone	ND	0 / 33	<	2.30E-02	U	<	2.30E-02	U	<	2.20E-02	U
4-Chlorotoluene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
4-Methyl-2-Pentanone	ND	0 / 33	<	2.30E-02	U	<	2.30E-02	U	<	2.20E-02	U
Acetone	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Bromobenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Bromochloromethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Bromodichloromethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Bromoform	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Bromomethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Carbon Tetrachloride	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Chlorobenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Chloroethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Chloroform	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB03-015			CA508-SS04-001			CA508-SB04-004		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
cis-1,3-Dichloropropene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Dibromochloromethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Dibromomethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Dichlorodifluoromethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Hexachlorobutadiene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Isopropylbenzene (Cumene)	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
n-Butylbenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
n-Propylbenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
sec-Butylbenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Styrene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
t-Butylbenzene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Tetrachloroethene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Toluene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
trans-1,3-Dichloropropene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Trichloroethene	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Trichlorofluoromethane	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
Vinyl Chloride	ND	0 / 33	<	5.60E-03	U	<	5.70E-03	U	<	5.50E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
1,2-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
1,3-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
1,4-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
2,4,5-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
2,4,6-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
2,4-Dichlorophenol	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
2,4-Dimethylphenol	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
2,4-Dinitrophenol	ND	0 / 33	<	7.10E-01	U	<	1.40E+00	U	<	7.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
2-Chloronaphthalene	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
2-Chlorophenol	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
2-Methylphenol (o-cresol)	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB03-015			CA508-SS04-001			CA508-SB04-004		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
2-Nitrophenol	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
3-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 33	<	7.10E-01	U	<	1.40E+00	U	<	7.00E-01	U
4-Bromophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
4-Chloro-3-methylphenol	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
4-Chlorophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
4-Methylphenol (p-cresol)	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
4-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
4-Nitrophenol	ND	0 / 33	<	7.10E-01	U	<	1.40E+00	U	<	7.00E-01	U
Benzyl Alcohol	ND	0 / 33	<	1.40E+00	U	<	2.80E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
bis(2-Chloroethyl)ether	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Butylbenzylphthalate	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Carbazole	6.00E-01	1 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Diethylphthalate	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Dimethylphthalate	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Di-n-butylphthalate	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Di-n-octylphthalate	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Hexachlorobenzene	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Hexachlorobutadiene	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Hexachloroethane	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Isophorone	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Nitrobenzene	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
N-Nitrosodimethylamine	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
N-Nitrosodiphenylamine	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Pentachlorophenol	ND	0 / 33	<	7.10E-01	U	<	1.40E+00	U	<	7.00E-01	U
Phenol	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
Unknown	ND	0 / 33	<	3.50E-01	U	<	7.10E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.70E-01	4 / 33	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	<	1.10E-02	U	1.90E-02	2.20E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	<	1.10E-02	U	2.80E-02	2.20E-02		<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	<	1.10E-02	U	3.80E-02	2.20E-02		<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB03-015			CA508-SS04-001			CA508-SB04-004		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(g,h,i)perylene	1.10E+00	15 / 33	<	1.10E-02	U	1.90E-02	2.20E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	<	1.10E-02	U	1.10E-02	2.20E-02	J	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	<	1.10E-02	U	2.00E-02	2.20E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	<	1.10E-02	U	4.60E-02	2.20E-02		<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	<	1.10E-02	U	2.10E-02	2.20E-02	J	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	<	1.10E-02	U	<	2.20E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	<	1.10E-02	U	1.80E-02	2.20E-02	J	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	<	1.10E-02	U	3.80E-02	2.20E-02		<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)											
4,4-DDD	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
4,4-DDE	4.80E-03	3 / 33	<	4.30E-03	U	4.40E-03	4.30E-03		<	4.30E-03	U
4,4-DDT	1.20E-02	8 / 33	<	4.30E-03	U	6.60E-03	4.30E-03		<	4.30E-03	U
Aldrin	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
alpha-BHC	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
alpha-Chlordane	3.40E-03	1 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
beta-BHC	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
delta-BHC	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endosulfan I	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Endosulfan II	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin aldehyde	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin ketone	ND	0 / 33	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
gamma-Chlordane	1.90E-03	1 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Heptachlor	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Methoxychlor	ND	0 / 33	<	2.20E-02	U	<	2.20E-02	U	<	2.10E-02	U
POLYCHLORINATED BIPHENYLS (PCB) (mg/kg)											
PCB-1016	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
PCB-1221	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
PCB-1232	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
PCB-1242	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
PCB-1248	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
PCB-1254	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
PCB-1260	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB03-015			CA508-SS04-001			CA508-SB04-004		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (mg/kg)											
1,3,5-Trinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
1,3-Dinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4,6-Trinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Amino-4,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
3-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Amino-2,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
HMX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Nitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
RDX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Tetryl	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	1.20E+01	7 / 33	<	1.10E+01	U	2.90E+00	1.10E+01	J	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	<	1.10E+00	U	<	1.20E+00	U	<	1.20E+00	U
Oil Range Organics	1.60E+02	18 / 33	<	2.20E+01	U	6.70E+01	2.20E+01		<	2.10E+01	U
METALS (mg/kg)											
Arsenic	5.59E+00	33 / 33	2.39E+00	5.12E-01		3.82E+00	5.46E-01		3.70E+00	5.18E-01	
Barium	8.44E+02	33 / 33	3.85E+02	5.12E-01		1.30E+02	5.46E-01		2.22E+02	5.18E-01	
Cadmium	3.79E+00	33 / 33	2.28E-01	5.12E-01	J	4.43E-01	5.46E-01	J	1.82E-01	5.18E-01	J
Chromium	1.89E+01	33 / 33	8.34E+00	5.12E-01		1.49E+01	5.46E-01		8.87E+00	5.18E-01	
Lead	3.13E+01	33 / 33	4.47E+00	5.12E-01		1.50E+01	5.46E-01		5.32E+00	5.18E-01	
Mercury	2.71E-02	3 / 33	<	1.08E-01	U	2.54E-02	1.08E-01	J	<	1.07E-01	U
Selenium	3.00E-01	24 / 33	<	5.12E-01	U	3.00E-01	5.46E-01	J	7.21E-02	5.18E-01	J
Silver	1.09E+00	12 / 33	<	5.12E-01	U	9.19E-01	5.46E-01		<	5.18E-01	U
DIOXINS/FURANS (ng/kg)											
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	<	2.65E+00	U	2.86E+01	2.70E+00		<	2.63E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	<	2.65E+00	U	2.44E+00	2.70E+00	J	<	2.63E+00	U
1,2,3,4,7,8,9-HpCDF	ND	0 / 33	<	2.65E+00	U	<	2.70E+00	U	<	2.63E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	<	2.65E+00	U	<	2.70E+00	U	<	2.63E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	<	2.65E+00	U	<	2.70E+00	U	<	2.63E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01	10 / 33	<	2.65E+00	U	<	2.70E+00	U	<	2.63E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	<	2.65E+00	U	<	2.70E+00	U	<	2.63E+00	U
1,2,3,7,8,9-Hexachlorodibenzofuran	ND	0 / 33	<	2.65E+00	U	<	2.70E+00	U	<	2.63E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	<	2.65E+00	U	1.02E+00	2.70E+00	J	<	2.63E+00	U
1,2,3,7,8,9-HxCDF	9.33E+02	16 / 33	<	2.65E+00	U	6.18E+01	2.70E+00		<	2.63E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB03-015			CA508-SS04-001			CA508-SB04-004		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	<	2.65E+00	U	6.77E-01	2.70E+00	J	<	2.63E+00	U
1,2,3,7,8-PeCDF	ND	0 / 33	<	2.65E+00	U	<	2.70E+00	U	<	2.63E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	<	2.65E+00	U	1.67E+00	2.70E+00	J	<	2.63E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	<	2.65E+00	U	<	2.70E+00	U	<	2.63E+00	U
2,3,7,8-TCDD	ND	0 / 33	<	5.30E-01	U	<	5.41E-01	U	<	5.25E-01	U
2,3,7,8-TCDF	ND	0 / 33	<	5.30E-01	U	<	5.41E-01	U	<	5.25E-01	U
Dioxins/Furans	1.31E+01	23 / 33	<	4.83E-01	U	1.31E+00	1.31E+00		1.80E-03	1.80E-03	
Heptachlorinated Dibenzofurans, (total)	3.91E+01	12 / 33	<	2.65E+00	U	2.44E+00	2.70E+00	J	<	2.63E+00	U
Hexachlorinated Dibenzofurans, (total)	5.34E+01	12 / 33	<	2.65E+00	U	1.06E+01	2.70E+00		<	2.63E+00	U
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	14 / 33	<	2.65E+00	U	1.38E+01	2.70E+00		<	2.63E+00	U
OCDD	2.75E+03	23 / 33	<	5.30E+00	U	1.76E+02	5.41E+00	J	5.85E+00	5.25E+00	
OCDF	1.99E+01	11 / 33	<	5.30E+00	U	2.38E+00	5.41E+00	J	<	5.25E+00	U
Pentachlorinated Dibenzofurans, (total)	7.87E+01	16 / 33	<	2.65E+00	U	2.12E+00	2.70E+00	J	1.77E+00	2.63E+00	J
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	5 / 33	<	2.65E+00	U	<	2.70E+00	U	<	2.63E+00	U
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	9 / 33	<	5.30E-01	U	3.52E+00	5.41E-01		<	5.25E-01	U
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	1 / 33	<	5.30E-01	U	<	5.41E-01	U	<	5.25E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB04-009			CA508-SB04-014			CA508-SS05-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,1,1-Trichloroethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,1,2-Trichloroethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,1-Dichloroethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,1-Dichloroethene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,1-Dichloropropene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,2,3-Trichlorobenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,2,3-Trichloropropane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,2,4-Trichlorobenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,2,4-Trimethylbenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 33	<	1.30E-02	U	<	1.00E-02	U	<	1.20E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,2-Dichlorobenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,2-Dichloroethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,2-Dichloroethene (cis)	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,2-Dichloroethene (trans)	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,2-Dichloropropane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,3-Dichlorobenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,3-Dichloropropane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
1,4-Dichlorobenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
2,2-Dichloropropane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
2-Chlorotoluene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
2-Hexanone	ND	0 / 33	<	2.50E-02	U	<	2.10E-02	U	<	2.50E-02	U
4-Chlorotoluene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
4-Methyl-2-Pentanone	ND	0 / 33	<	2.50E-02	U	<	2.10E-02	U	<	2.50E-02	U
Acetone	ND	0 / 33	<	1.30E-02	U	<	1.00E-02	U	<	1.20E-02	U
Benzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Bromobenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Bromochloromethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Bromodichloromethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Bromoform	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Bromomethane	ND	0 / 33	<	1.30E-02	U	<	1.00E-02	U	<	1.20E-02	U
Carbon Disulfide	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Carbon Tetrachloride	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Chlorobenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Chloroethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Chloroform	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB04-009			CA508-SB04-014			CA508-SS05-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 33	<	1.30E-02	U	<	1.00E-02	U	<	1.20E-02	U
cis-1,3-Dichloropropene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Dibromochloromethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Dibromomethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Dichlorodifluoromethane	ND	0 / 33	<	1.30E-02	U	<	1.00E-02	U	<	1.20E-02	U
Ethylbenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Hexachlorobutadiene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Isopropylbenzene (Cumene)	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	<	1.30E-02	U	<	1.00E-02	U	<	1.20E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 33	<	1.30E-02	U	<	1.00E-02	U	<	1.20E-02	U
Methylene Chloride	ND	0 / 33	<	1.30E-02	U	<	1.00E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
n-Butylbenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
n-Propylbenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
sec-Butylbenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Styrene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
t-Butylbenzene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Tetrachloroethene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Toluene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
trans-1,3-Dichloropropene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Trichloroethene	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Trichlorofluoromethane	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
Vinyl Chloride	ND	0 / 33	<	6.30E-03	U	<	5.20E-03	U	<	6.20E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
1,2-Dichlorobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
1,3-Dichlorobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
1,4-Dichlorobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4,5-Trichlorophenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4,6-Trichlorophenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4-Dichlorophenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4-Dimethylphenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,4-Dinitrophenol	ND	0 / 33	<	7.20E-01	U	<	7.20E-01	U	<	7.20E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Chloronaphthalene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Chlorophenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Methylphenol (o-cresol)	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB04-009			CA508-SB04-014			CA508-SS05-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
2-Nitrophenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
3-Nitroaniline	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 33	<	7.20E-01	U	<	7.20E-01	U	<	7.20E-01	U
4-Bromophenyl-phenylether	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Chloro-3-methylphenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Chlorophenyl-phenylether	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Methylphenol (p-cresol)	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Nitroaniline	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
4-Nitrophenol	ND	0 / 33	<	7.20E-01	U	<	7.20E-01	U	<	7.20E-01	U
Benzyl Alcohol	ND	0 / 33	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
bis(2-Chloroethyl)ether	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Butylbenzylphthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Carbazole	6.00E-01	1 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dibenzofuran	4.70E-01	1 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Diethylphthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Dimethylphthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-butylphthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Di-n-octylphthalate	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Hexachlorobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Hexachlorobutadiene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Hexachloroethane	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Isophorone	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Nitrobenzene	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
N-Nitrosodimethylamine	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
N-Nitrosodiphenylamine	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Pentachlorophenol	ND	0 / 33	<	7.20E-01	U	<	7.20E-01	U	<	7.20E-01	U
Phenol	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
Unknown	ND	0 / 33	<	3.60E-01	U	<	3.60E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.70E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	6.80E-03	1.10E-02	J
Acenaphthene	7.80E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	1.30E-02	1.10E-02	
Acenaphthylene	3.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	7.80E-03	1.10E-02	J
Anthracene	7.80E-01	6 / 33	<	1.10E-02	U	<	1.10E-02	U	1.80E-02	1.10E-02	
Benzo(a)anthracene	1.80E+00	15 / 33	<	1.10E-02	U	<	1.10E-02	U	1.00E-01	1.10E-02	
Benzo(a)pyrene	2.00E+00	16 / 33	<	1.10E-02	U	<	1.10E-02	U	1.40E-01	1.10E-02	
Benzo(b)fluoranthene	2.50E+00	16 / 33	<	1.10E-02	U	<	1.10E-02	U	1.90E-01	1.10E-02	

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB04-009			CA508-SB04-014			CA508-SS05-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(g,h,i)perylene	1.10E+00	15 / 33	<	1.10E-02	U	<	1.10E-02	U	1.00E-01	1.10E-02	
Benzo(k)fluoranthene	8.70E-01	12 / 33	<	1.10E-02	U	<	1.10E-02	U	6.60E-02	1.10E-02	
Chrysene	2.40E+00	12 / 33	<	1.10E-02	U	<	1.10E-02	U	1.60E-01	1.10E-02	
Dibenz(a,h)anthracene	2.50E-01	5 / 33	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	1.10E-02	
Fluoranthene	3.50E-01	16 / 32	<	1.10E-02	U	<	1.10E-02	U	3.50E-01	1.10E-02	
Fluorene	5.00E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	7.80E-03	1.10E-02	J
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	<	1.10E-02	U	<	1.10E-02	U	8.60E-02	1.10E-02	
Naphthalene	3.40E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	3.90E-03	1.10E-02	J
Phenanthrene	2.20E-01	10 / 32	<	1.10E-02	U	<	1.10E-02	U	2.20E-01	1.10E-02	
Pyrene	3.00E-01	13 / 32	<	1.10E-02	U	<	1.10E-02	U	3.00E-01	1.10E-02	
PESTICIDES (ORGANOCHLORINE) (mg/kg)											
4,4-DDD	ND	0 / 33	<	4.30E-03	U	<	4.40E-03	U	<	4.30E-03	U
4,4-DDE	4.80E-03	3 / 33	<	4.30E-03	U	<	4.40E-03	U	2.80E-03	4.30E-03	J
4,4-DDT	1.20E-02	8 / 33	<	4.30E-03	U	<	4.40E-03	U	6.70E-03	4.30E-03	
Aldrin	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
alpha-BHC	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
alpha-Chlordane	3.40E-03	1 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
beta-BHC	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	UJ
delta-BHC	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Dieldrin	8.10E-03	3 / 33	<	4.30E-03	U	<	4.40E-03	U	2.10E-03	4.30E-03	J
Endosulfan I	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Endosulfan II	ND	0 / 33	<	4.30E-03	U	<	4.40E-03	U	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 33	<	4.30E-03	U	<	4.40E-03	U	<	4.30E-03	U
Endrin	ND	0 / 33	<	4.30E-03	U	<	4.40E-03	U	<	4.30E-03	U
Endrin aldehyde	ND	0 / 33	<	4.30E-03	U	<	4.40E-03	U	<	4.30E-03	U
Endrin ketone	ND	0 / 33	<	4.30E-03	U	<	4.40E-03	U	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
gamma-Chlordane	1.90E-03	1 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Heptachlor	ND	0 / 33	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	1.20E-03	2.20E-03	J	<	2.20E-03	U	<	2.20E-03	U
Methoxychlor	ND	0 / 33	<	2.20E-02	U	<	2.20E-02	U	<	2.20E-02	U
POLYCHLORINATED BIPHENYLS (PCB) (mg/kg)											
PCB-1016	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1221	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1232	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1242	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1248	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1254	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U
PCB-1260	ND	0 / 33	<	5.40E-02	U	<	5.40E-02	U	<	5.40E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB04-009			CA508-SB04-014			CA508-SS05-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (mg/kg)											
1,3,5-Trinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
1,3-Dinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4,6-Trinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Amino-4,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
3-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Amino-2,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
HMX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Nitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
RDX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Tetryl	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	1.20E+01	7 / 33	<	1.10E+01	U	<	1.10E+01	U	4.90E+00	1.10E+01	J
Gasoline Range Organics	2.60E+00	1 / 33	<	1.10E+00	U	<	1.10E+00	U	<	1.40E+00	U
Oil Range Organics	1.60E+02	18 / 33	<	2.20E+01	U	<	2.20E+01	U	2.50E+01	2.20E+01	
METALS (mg/kg)											
Arsenic	5.59E+00	33 / 33	3.95E+00	5.31E-01		2.98E+00	5.34E-01		4.59E+00	5.28E-01	
Barium	8.44E+02	33 / 33	1.95E+02	5.31E-01		9.08E+01	5.34E-01		1.37E+02	5.28E-01	J
Cadmium	3.79E+00	33 / 33	2.48E-01	5.31E-01	J	2.87E-01	5.34E-01	J	3.46E-01	5.28E-01	J
Chromium	1.89E+01	33 / 33	1.02E+01	5.31E-01		1.02E+01	5.34E-01		1.45E+01	5.28E-01	
Lead	3.13E+01	33 / 33	6.90E+00	5.31E-01		6.63E+00	5.34E-01		1.56E+01	5.28E-01	
Mercury	2.71E-02	3 / 33	<	1.08E-01	U	<	1.08E-01	U	<	1.09E-01	U
Selenium	3.00E-01	24 / 33	<	5.31E-01	U	<	5.34E-01	U	1.30E-01	5.28E-01	J
Silver	1.09E+00	12 / 33	<	5.31E-01	U	<	5.34E-01	U	9.07E-02	5.28E-01	J
DIOXINS/FURANS (ng/kg)											
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	<	2.72E+00	U	<	2.69E+00	U	1.90E+01	2.72E+00	
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	<	2.72E+00	U	<	2.69E+00	U	1.80E+00	2.72E+00	J
1,2,3,4,7,8,9-HpCDF	ND	0 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01	10 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
1,2,3,7,8,9-Hexachlorodibenzofuran	ND	0 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
1,2,3,7,8,9-HxCDF	9.33E+02	16 / 33	<	2.72E+00	U	<	2.69E+00	U	6.77E+01	2.72E+00	

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB04-009			CA508-SB04-014			CA508-SS05-001		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
1,2,3,7,8-PeCDF	ND	0 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
2,3,7,8-TCDD	ND	0 / 33	<	5.44E-01	U	<	5.37E-01	U	<	5.45E-01	U
2,3,7,8-TCDF	ND	0 / 33	<	5.44E-01	U	<	5.37E-01	U	<	5.45E-01	U
Dioxins/Furans	1.31E+01	23 / 33	<	1.80E-03	U	<	1.80E-03	U	2.57E-01	2.57E-01	
Heptachlorinated Dibenzofurans, (total)	3.91E+01	12 / 33	<	2.72E+00	U	<	2.69E+00	U	1.80E+00	2.72E+00	J
Hexachlorinated Dibenzofurans, (total)	5.34E+01	12 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	14 / 33	<	2.72E+00	U	<	2.69E+00	U	2.15E+00	2.72E+00	J
OCDD	2.75E+03	23 / 33	<	5.44E+00	U	<	5.37E+00	U	1.60E+02	5.45E+00	
OCDF	1.99E+01	11 / 33	<	5.44E+00	U	<	5.37E+00	U	4.05E+00	5.45E+00	J
Pentachlorinated Dibenzofurans, (total)	7.87E+01	16 / 33	<	2.72E+00	U	<	2.69E+00	U	5.74E+00	2.72E+00	
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	5 / 33	<	2.72E+00	U	<	2.69E+00	U	<	2.72E+00	U
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	9 / 33	<	5.44E-01	U	<	5.37E-01	U	<	5.45E-01	U
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	1 / 33	<	5.44E-01	U	<	5.37E-01	U	<	5.45E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB05-005			CA508-SB05-010			CA508-SB05-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,1,1-Trichloroethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,1,2-Trichloroethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,1-Dichloroethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,1-Dichloroethene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,1-Dichloropropene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,2,3-Trichlorobenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,2,3-Trichloropropane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,2,4-Trichlorobenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,2,4-Trimethylbenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,2-Dichlorobenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,2-Dichloroethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,2-Dichloroethene (cis)	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,2-Dichloroethene (trans)	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,2-Dichloropropane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,3-Dichlorobenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,3-Dichloropropane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
1,4-Dichlorobenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
2,2-Dichloropropane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
2-Chlorotoluene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
2-Hexanone	ND	0 / 33	<	2.30E-02	U	<	2.00E-02	U	<	2.20E-02	U
4-Chlorotoluene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
4-Methyl-2-Pentanone	ND	0 / 33	<	2.30E-02	U	<	2.00E-02	U	<	2.20E-02	U
Acetone	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Benzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Bromobenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Bromochloromethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Bromodichloromethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Bromoform	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Bromomethane	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Carbon Tetrachloride	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Chlorobenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Chloroethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Chloroform	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB05-005			CA508-SB05-010			CA508-SB05-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
cis-1,3-Dichloropropene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Dibromochloromethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Dibromomethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Dichlorodifluoromethane	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Ethylbenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Hexachlorobutadiene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Isopropylbenzene (Cumene)	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 33	<	1.10E-02	U	<	1.00E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
n-Butylbenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
n-Propylbenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
sec-Butylbenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Styrene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
t-Butylbenzene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Tetrachloroethene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Toluene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
trans-1,3-Dichloropropene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Trichloroethene	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Trichlorofluoromethane	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
Vinyl Chloride	ND	0 / 33	<	5.70E-03	U	<	5.10E-03	U	<	5.60E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,2-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,3-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,4-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,5-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,6-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dimethylphenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dinitrophenol	ND	0 / 33	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chloronaphthalene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Methylphenol (o-cresol)	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB05-005			CA508-SB05-010			CA508-SB05-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Nitrophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
3-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 33	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
4-Bromophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chloro-3-methylphenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chlorophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Methylphenol (p-cresol)	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitrophenol	ND	0 / 33	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
Benzyl Alcohol	ND	0 / 33	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Chloroethyl)ether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Butylbenzylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Carbazole	6.00E-01	1 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Diethylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dimethylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-butylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-octylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobutadiene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachloroethane	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Isophorone	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Nitrobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodimethylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodiphenylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Pentachlorophenol	ND	0 / 33	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
Phenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Unknown	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.70E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	5.40E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	7.90E-03	1.10E-02	J	<	1.10E-02	U	3.40E-03	1.10E-02	J
Benzo(a)anthracene	1.80E+00	15 / 33	1.80E-02	1.10E-02		<	1.10E-02	U	8.20E-03	1.10E-02	J
Benzo(a)pyrene	2.00E+00	16 / 33	1.60E-02	1.10E-02		<	1.10E-02	U	6.60E-03	1.10E-02	J
Benzo(b)fluoranthene	2.50E+00	16 / 33	2.00E-02	1.10E-02		<	1.10E-02	U	8.20E-03	1.10E-02	J

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB05-005			CA508-SB05-010			CA508-SB05-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(g,h,i)perylene	1.10E+00	15 / 33	1.30E-02	1.10E-02		<	1.10E-02	U	3.90E-03	1.10E-02	J
Benzo(k)fluoranthene	8.70E-01	12 / 33	7.30E-03	1.10E-02	J	<	1.10E-02	U	3.20E-03	1.10E-02	J
Chrysene	2.40E+00	12 / 33	1.50E-02	1.10E-02		<	1.10E-02	U	7.50E-03	1.10E-02	J
Dibenz(a,h)anthracene	2.50E-01	5 / 33	2.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	4.30E-02	1.10E-02		<	1.10E-02	U	1.90E-02	1.10E-02	
Fluorene	5.00E-01	4 / 33	4.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.00E-02	1.10E-02	J	<	1.10E-02	U	3.20E-03	1.10E-02	J
Naphthalene	3.40E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	3.30E-02	1.10E-02		<	1.10E-02	U	1.90E-02	1.10E-02	
Pyrene	3.00E-01	13 / 32	3.50E-02	1.10E-02		<	1.10E-02	U	1.70E-02	1.10E-02	
PESTICIDES (ORGANOCHLORINE) (mg/kg)											
4,4-DDD	ND	0 / 33	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDE	4.80E-03	3 / 33	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDT	1.20E-02	8 / 33	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
Aldrin	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-Chlordane	3.40E-03	1 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
beta-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
delta-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endosulfan I	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Endosulfan II	ND	0 / 33	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 33	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin	ND	0 / 33	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin aldehyde	ND	0 / 33	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin ketone	ND	0 / 33	<	4.20E-03	U	<	4.20E-03	U	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
gamma-Chlordane	1.90E-03	1 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Methoxychlor	ND	0 / 33	<	2.10E-02	U	<	2.10E-02	U	<	2.10E-02	U
POLYCHLORINATED BIPHENYLS (PCB) (mg/kg)											
PCB-1016	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1221	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1232	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1242	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1248	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1254	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1260	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB05-005			CA508-SB05-010			CA508-SB05-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (mg/kg)											
1,3,5-Trinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
1,3-Dinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4,6-Trinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Amino-4,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
3-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Amino-2,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
HMX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Nitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
RDX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Tetryl	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	1.20E+01	7 / 33	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	<	1.10E+00	U	<	9.60E-01	U	<	1.30E+00	U
Oil Range Organics	1.60E+02	18 / 33	9.80E+00	2.10E+01	J	<	2.10E+01	U	<	2.10E+01	U
METALS (mg/kg)											
Arsenic	5.59E+00	33 / 33	3.72E+00	5.03E-01		2.61E+00	5.13E-01		2.28E+00	5.10E-01	
Barium	8.44E+02	33 / 33	1.20E+02	5.03E-01		4.72E+02	5.13E-01		3.22E+02	5.10E-01	
Cadmium	3.79E+00	33 / 33	2.14E-01	5.03E-01	J	2.16E-01	5.13E-01	J	2.82E-01	5.10E-01	J
Chromium	1.89E+01	33 / 33	9.49E+00	5.03E-01		6.00E+00	5.13E-01		8.44E+00	5.10E-01	
Lead	3.13E+01	33 / 33	6.99E+00	5.03E-01		3.80E+00	5.13E-01		4.16E+00	5.10E-01	
Mercury	2.71E-02	3 / 33	<	1.05E-01	U	<	1.05E-01	U	<	1.07E-01	U
Selenium	3.00E-01	24 / 33	7.07E-02	5.03E-01	J	5.29E-02	5.13E-01	J	5.98E-02	5.10E-01	J
Silver	1.09E+00	12 / 33	7.84E-02	5.03E-01	J	<	5.13E-01	U	<	5.10E-01	U
DIOXINS/FURANS (ng/kg)											
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
1,2,3,4,7,8,9-HpCDF	ND	0 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01	10 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
1,2,3,7,8,9-Hexachlorodibenzofuran	ND	0 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
1,2,3,7,8,9-HxCDF	9.33E+02	16 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SB05-005			CA508-SB05-010			CA508-SB05-015		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
1,2,3,7,8-PeCDF	ND	0 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
2,3,7,8-TCDD	ND	0 / 33	<	5.12E-01	U	<	5.16E-01	U	<	5.27E-01	U
2,3,7,8-TCDF	ND	0 / 33	<	5.12E-01	U	<	5.16E-01	U	<	5.27E-01	U
Dioxins/Furans	1.31E+01	23 / 33	1.50E-03	1.50E-03		<	4.83E-01	U	<	4.83E-01	U
Heptachlorinated Dibenzofurans, (total)	3.91E+01	12 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
Hexachlorinated Dibenzofurans, (total)	5.34E+01	12 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	14 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
OCDD	2.75E+03	23 / 33	5.02E+00	5.12E+00	J	<	5.16E+00	U	<	5.27E+00	U
OCDF	1.99E+01	11 / 33	<	5.12E+00	U	<	5.16E+00	U	<	5.27E+00	U
Pentachlorinated Dibenzofurans, (total)	7.87E+01	16 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	5 / 33	<	2.56E+00	U	<	2.58E+00	U	<	2.63E+00	U
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	9 / 33	<	5.12E-01	U	<	5.16E-01	U	<	5.27E-01	U
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	1 / 33	<	5.12E-01	U	<	5.16E-01	U	<	5.27E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS06-001			CA508-SB06-004			CA508-SB06-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,1,1-Trichloroethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,1,2-Trichloroethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,1-Dichloroethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,1-Dichloroethene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,1-Dichloropropene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2,3-Trichlorobenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2,3-Trichloropropane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2,4-Trichlorobenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2,4-Trimethylbenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dichlorobenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dichloroethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dichloroethene (cis)	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dichloroethene (trans)	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,2-Dichloropropane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,3-Dichlorobenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,3-Dichloropropane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
1,4-Dichlorobenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
2,2-Dichloropropane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
2-Chlorotoluene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
2-Hexanone	ND	0 / 33	<	2.60E-02	U	<	2.20E-02	U	<	2.30E-02	U
4-Chlorotoluene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
4-Methyl-2-Pentanone	ND	0 / 33	<	2.60E-02	U	<	2.20E-02	U	<	2.30E-02	U
Acetone	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Bromobenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Bromochloromethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Bromodichloromethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Bromoform	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Bromomethane	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Carbon Tetrachloride	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Chlorobenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Chloroethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Chloroform	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS06-001			CA508-SB06-004			CA508-SB06-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.10E-02	U
cis-1,3-Dichloropropene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Dibromochloromethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Dibromomethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Dichlorodifluoromethane	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Hexachlorobutadiene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Isopropylbenzene (Cumene)	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	5.10E-03	1.30E-02	J	<	1.10E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 33	<	1.30E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
n-Butylbenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
n-Propylbenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
sec-Butylbenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Styrene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
t-Butylbenzene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Tetrachloroethene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Toluene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
trans-1,3-Dichloropropene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Trichloroethene	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Trichlorofluoromethane	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
Vinyl Chloride	ND	0 / 33	<	6.40E-03	U	<	5.50E-03	U	<	5.70E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,2-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,3-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,4-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,5-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,6-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dimethylphenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dinitrophenol	ND	0 / 33	<	7.10E-01	U	<	7.00E-01	U	<	7.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chloronaphthalene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Methylphenol (o-cresol)	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS06-001			CA508-SB06-004			CA508-SB06-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Nitrophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
3-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 33	<	7.10E-01	U	<	7.00E-01	U	<	7.00E-01	U
4-Bromophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chloro-3-methylphenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chlorophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Methylphenol (p-cresol)	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitrophenol	ND	0 / 33	<	7.10E-01	U	<	7.00E-01	U	<	7.00E-01	U
Benzyl Alcohol	ND	0 / 33	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Chloroethyl)ether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Butylbenzylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Carbazole	6.00E-01	1 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Diethylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dimethylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-butylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-octylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobutadiene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachloroethane	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Isophorone	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Nitrobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodimethylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodiphenylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Pentachlorophenol	ND	0 / 33	<	7.10E-01	U	<	7.00E-01	U	<	7.00E-01	U
Phenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Unknown	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.70E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	2.00E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	3.00E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS06-001			CA508-SB06-004			CA508-SB06-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(g,h,i)perylene	1.10E+00	15 / 33	1.30E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	8.20E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	3.50E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	1.20E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	2.90E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)											
4,4-DDD	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
4,4-DDE	4.80E-03	3 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
4,4-DDT	1.20E-02	8 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Aldrin	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-Chlordane	3.40E-03	1 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
beta-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
delta-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endosulfan I	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Endosulfan II	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endosulfan sulfate	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endrin	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endrin aldehyde	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endrin ketone	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
gamma-BHC (Lindane)	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
gamma-Chlordane	1.90E-03	1 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Methoxychlor	ND	0 / 33	<	2.10E-02	U	<	2.10E-02	U	<	2.10E-02	U
POLYCHLORINATED BIPHENYLS (PCB) (mg/kg)											
PCB-1016	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1221	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1232	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1242	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1248	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1254	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1260	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.30E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS06-001			CA508-SB06-004			CA508-SB06-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (mg/kg)											
1,3,5-Trinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
1,3-Dinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4,6-Trinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Amino-4,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
3-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Amino-2,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
HMX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Nitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
RDX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Tetryl	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	1.20E+01	7 / 33	3.00E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	<	1.20E+00	U	<	1.20E+00	U	<	1.20E+00	U
Oil Range Organics	1.60E+02	18 / 33	4.20E+01	2.10E+01		1.10E+01	2.10E+01	J	<	2.10E+01	U
METALS (mg/kg)											
Arsenic	5.59E+00	33 / 33	3.74E+00	5.15E-01		3.73E+00	5.30E-01		2.35E+00	5.10E-01	
Barium	8.44E+02	33 / 33	1.18E+02	5.15E-01		1.21E+02	5.30E-01		1.71E+02	5.10E-01	
Cadmium	3.79E+00	33 / 33	4.08E-01	5.15E-01	J	2.32E-01	5.30E-01	J	1.99E-01	5.10E-01	J
Chromium	1.89E+01	33 / 33	1.34E+01	5.15E-01		1.23E+01	5.30E-01		6.21E+00	5.10E-01	
Lead	3.13E+01	33 / 33	1.26E+01	5.15E-01		7.65E+00	5.30E-01		3.92E+00	5.10E-01	
Mercury	2.71E-02	3 / 33	2.71E-02	1.06E-01	J	<	1.06E-01	U	<	1.05E-01	U
Selenium	3.00E-01	24 / 33	1.68E-01	5.15E-01	J	9.55E-02	5.30E-01	J	5.87E-02	5.10E-01	J
Silver	1.09E+00	12 / 33	9.01E-01	5.15E-01		1.37E-01	5.30E-01	J	<	5.10E-01	U
DIOXINS/FURANS (ng/kg)											
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	1.57E+01	2.57E+00		1.47E+00	2.64E+00	J	<	2.58E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	2.74E+00	2.57E+00		<	2.64E+00	U	<	2.58E+00	U
1,2,3,4,7,8,9-HpCDF	ND	0 / 33	<	2.57E+00	U	<	2.64E+00	U	<	2.58E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	<	2.57E+00	U	<	2.64E+00	U	<	2.58E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	<	2.57E+00	U	<	2.64E+00	U	<	2.58E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01	10 / 33	9.56E-01	2.57E+00	J	<	2.64E+00	U	<	2.58E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	<	2.57E+00	U	<	2.64E+00	U	<	2.58E+00	U
1,2,3,7,8,9-Hexachlorodibenzofuran	ND	0 / 33	<	2.57E+00	U	<	2.64E+00	U	<	2.58E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	<	2.57E+00	U	<	2.64E+00	U	<	2.58E+00	U
1,2,3,7,8,9-HxCDF	9.33E+02	16 / 33	3.67E+01	2.57E+00		1.38E+00	2.64E+00	J	<	2.58E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS06-001			CA508-SB06-004			CA508-SB06-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	<	2.57E+00	U	<	2.64E+00	U	<	2.58E+00	U
1,2,3,7,8-PeCDF	ND	0 / 33	<	2.57E+00	U	<	2.64E+00	U	<	2.58E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	8.90E-01	2.57E+00	J	<	2.64E+00	U	<	2.58E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	<	2.57E+00	U	<	2.64E+00	U	<	2.58E+00	U
2,3,7,8-TCDD	ND	0 / 33	<	5.14E-01	U	<	5.29E-01	U	<	5.16E-01	U
2,3,7,8-TCDF	ND	0 / 33	<	5.14E-01	U	<	5.29E-01	U	<	5.16E-01	U
Dioxins/Furans	1.31E+01	23 / 33	4.04E-01	4.04E-01		1.81E-02	1.81E-02		7.00E-04	7.00E-04	
Heptachlorinated Dibenzofurans, (total)	3.91E+01	12 / 33	5.68E+00	2.57E+00		<	2.64E+00	U	<	2.58E+00	U
Hexachlorinated Dibenzofurans, (total)	5.34E+01	12 / 33	1.47E+01	2.57E+00		6.82E-01	2.64E+00	J	<	2.58E+00	U
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	14 / 33	3.43E+00	2.57E+00		<	2.64E+00	U	<	2.58E+00	U
OCDD	2.75E+03	23 / 33	1.13E+02	5.14E+00		1.12E+01	5.29E+00		2.20E+00	5.16E+00	J
OCDF	1.99E+01	11 / 33	4.96E+00	5.14E+00	J	<	5.29E+00	U	<	5.16E+00	U
Pentachlorinated Dibenzofurans, (total)	7.87E+01	16 / 33	2.43E+01	2.57E+00		<	2.64E+00	U	<	2.58E+00	U
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	5 / 33	<	2.57E+00	U	<	2.64E+00	U	<	2.58E+00	U
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	9 / 33	4.10E+00	5.14E-01		<	5.29E-01	U	<	5.16E-01	U
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	1 / 33	<	5.14E-01	U	<	5.29E-01	U	<	5.16E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS07-001			CA508-SB07-005			CA508-SB07-009		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,1,1-Trichloroethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,1,2-Trichloroethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,1-Dichloroethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,1-Dichloroethene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,1-Dichloropropene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,2,3-Trichlorobenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,2,3-Trichloropropane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,2,4-Trichlorobenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,2,4-Trimethylbenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 33	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,2-Dichlorobenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,2-Dichloroethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,2-Dichloroethene (cis)	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,2-Dichloroethene (trans)	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,2-Dichloropropane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,3-Dichlorobenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,3-Dichloropropane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
1,4-Dichlorobenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
2,2-Dichloropropane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
2-Chlorotoluene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
2-Hexanone	ND	0 / 33	<	2.00E-02	U	<	2.30E-02	U	<	2.00E-02	U
4-Chlorotoluene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
4-Methyl-2-Pentanone	ND	0 / 33	<	2.00E-02	U	<	2.30E-02	U	<	2.00E-02	U
Acetone	ND	0 / 33	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Bromobenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Bromochloromethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Bromodichloromethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Bromoform	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Bromomethane	ND	0 / 33	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Carbon Disulfide	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Carbon Tetrachloride	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Chlorobenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Chloroethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Chloroform	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS07-001			CA508-SB07-005			CA508-SB07-009		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 33	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
cis-1,3-Dichloropropene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Dibromochloromethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Dibromomethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Dichlorodifluoromethane	ND	0 / 33	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Ethylbenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Hexachlorobutadiene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Isopropylbenzene (Cumene)	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	3.20E-03	1.00E-02	J	<	1.10E-02	U	<	1.00E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 33	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Methylene Chloride	ND	0 / 33	<	1.00E-02	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
n-Butylbenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
n-Propylbenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
sec-Butylbenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Styrene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
t-Butylbenzene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Tetrachloroethene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Toluene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
trans-1,3-Dichloropropene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Trichloroethene	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Trichlorofluoromethane	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
Vinyl Chloride	ND	0 / 33	<	5.10E-03	U	<	5.60E-03	U	<	5.10E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
1,2-Dichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
1,3-Dichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
1,4-Dichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
2,4,5-Trichlorophenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
2,4,6-Trichlorophenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dichlorophenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dimethylphenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dinitrophenol	ND	0 / 33	<	2.10E+00	U	<	7.00E-01	U	<	7.10E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
2-Chloronaphthalene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
2-Chlorophenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
2-Methylphenol (o-cresol)	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS07-001			CA508-SB07-005			CA508-SB07-009		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
2-Nitrophenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
3-Nitroaniline	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 33	<	2.10E+00	U	<	7.00E-01	U	<	7.10E-01	U
4-Bromophenyl-phenylether	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
4-Chloro-3-methylphenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
4-Chlorophenyl-phenylether	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
4-Methylphenol (p-cresol)	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
4-Nitroaniline	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
4-Nitrophenol	ND	0 / 33	<	2.10E+00	U	<	7.00E-01	U	<	7.10E-01	U
Benzyl Alcohol	ND	0 / 33	<	4.20E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
bis(2-Chloroethyl)ether	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Butylbenzylphthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Carbazole	6.00E-01	1 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Dibenzofuran	4.70E-01	1 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Diethylphthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Dimethylphthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Di-n-butylphthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Di-n-octylphthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Hexachlorobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Hexachlorobutadiene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Hexachloroethane	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Isophorone	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Nitrobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitrosodimethylamine	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitrosodiphenylamine	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Pentachlorophenol	ND	0 / 33	<	2.10E+00	U	<	7.00E-01	U	<	7.10E-01	U
Phenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
Unknown	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.70E-01	4 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	<	3.20E-02	U	3.50E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	1.50E-02	3.20E-02	J	6.70E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	1.30E-02	3.20E-02	J	4.70E-03	1.10E-02	J	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS07-001			CA508-SB07-005			CA508-SB07-009		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(g,h,i)perylene	1.10E+00	15 / 33	<	3.20E-02	U	5.20E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	<	3.20E-02	U	3.70E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	<	3.20E-02	U	2.70E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	<	3.20E-02	U	7.20E-03	1.10E-02	J	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	9.80E-03	3.20E-02	J	2.70E-03	1.10E-02	J	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	<	3.20E-02	U	6.90E-03	1.10E-02	J	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)											
4,4-DDD	ND	0 / 33	<	8.60E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDE	4.80E-03	3 / 33	<	8.60E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDT	1.20E-02	8 / 33	5.40E-03	8.60E-03	J	<	4.20E-03	U	<	4.30E-03	U
Aldrin	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-BHC	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-Chlordane	3.40E-03	1 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
beta-BHC	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
delta-BHC	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
Dieldrin	8.10E-03	3 / 33	<	8.60E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endosulfan I	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
Endosulfan II	ND	0 / 33	<	8.60E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 33	<	8.60E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin	ND	0 / 33	<	8.60E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin aldehyde	ND	0 / 33	<	8.60E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin ketone	ND	0 / 33	<	8.60E-03	U	<	4.20E-03	U	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
gamma-Chlordane	1.90E-03	1 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.20E-03	U
Methoxychlor	ND	0 / 33	<	4.30E-02	U	<	2.10E-02	U	<	2.20E-02	U
POLYCHLORINATED BIPHENYLS (PCB) (mg/kg)											
PCB-1016	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1221	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1232	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1242	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1248	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1254	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1260	ND	0 / 33	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS07-001			CA508-SB07-005			CA508-SB07-009		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (mg/kg)											
1,3,5-Trinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
1,3-Dinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4,6-Trinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Amino-4,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
3-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Amino-2,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
HMX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Nitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
RDX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Tetryl	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	1.20E+01	7 / 33	6.90E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	2.60E+00	1.20E+00		<	1.20E+00	U	<	9.80E-01	U
Oil Range Organics	1.60E+02	18 / 33	1.60E+02	2.10E+01		2.10E+01	2.10E+01		<	2.20E+01	U
METALS (mg/kg)											
Arsenic	5.59E+00	33 / 33	3.63E+00	5.01E-01		4.17E+00	5.28E-01		3.48E+00	5.04E-01	
Barium	8.44E+02	33 / 33	1.18E+02	5.01E-01		1.10E+02	5.28E-01		8.44E+02	5.04E-01	
Cadmium	3.79E+00	33 / 33	2.66E-01	5.01E-01	J	2.19E-01	5.28E-01	J	3.25E-01	5.04E-01	J
Chromium	1.89E+01	33 / 33	1.02E+01	5.01E-01		1.12E+01	5.28E-01		9.83E+00	5.04E-01	
Lead	3.13E+01	33 / 33	9.80E+00	5.01E-01		7.15E+00	5.28E-01		5.37E+00	5.04E-01	
Mercury	2.71E-02	3 / 33	<	1.07E-01	U	<	1.05E-01	U	<	1.07E-01	U
Selenium	3.00E-01	24 / 33	1.27E-01	5.01E-01	J	9.58E-02	5.28E-01	J	6.47E-02	5.04E-01	J
Silver	1.09E+00	12 / 33	<	5.01E-01	U	<	5.28E-01	U	<	5.04E-01	U
DIOXINS/FURANS (ng/kg)											
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	9.87E+00	2.62E+00	J	<	2.68E+00	U	<	3.20E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	1.85E+00	2.62E+00	J	<	2.68E+00	U	<	3.20E+00	U
1,2,3,4,7,8,9-HpCDF	ND	0 / 33	<	2.62E+00	U	<	2.68E+00	U	<	3.20E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	<	2.62E+00	U	<	2.68E+00	U	<	3.20E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	<	2.62E+00	U	<	2.68E+00	U	<	3.20E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01	10 / 33	<	2.62E+00	U	<	2.68E+00	U	<	3.20E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	8.78E-01	2.62E+00	J	<	2.68E+00	U	<	3.20E+00	U
1,2,3,7,8,9-Hexachlorodibenzofuran	ND	0 / 33	<	2.62E+00	U	<	2.68E+00	U	<	3.20E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	<	2.62E+00	U	<	2.68E+00	U	<	3.20E+00	U
1,2,3,7,8,9-HxCDF	9.33E+02	16 / 33	1.29E+01	2.62E+00		<	2.68E+00	U	<	3.20E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS07-001			CA508-SB07-005			CA508-SB07-009		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	<	2.62E+00	U	<	2.68E+00	U	<	3.20E+00	U
1,2,3,7,8-PeCDF	ND	0 / 33	<	2.62E+00	U	<	2.68E+00	U	<	3.20E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	2.27E+00	2.62E+00	J	<	2.68E+00	U	<	3.20E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	<	2.62E+00	U	<	2.68E+00	U	<	3.20E+00	U
2,3,7,8-TCDD	ND	0 / 33	<	5.23E-01	U	<	5.35E-01	U	<	6.41E-01	U
2,3,7,8-TCDF	ND	0 / 33	<	5.23E-01	U	<	5.35E-01	U	<	6.41E-01	U
Dioxins/Furans	1.31E+01	23 / 33	4.52E-01	4.52E-01		1.70E-03	1.70E-03		<	1.70E-03	U
Heptachlorinated Dibenzofurans, (total)	3.91E+01	12 / 33	4.66E+00	2.62E+00		<	2.68E+00	U	<	3.20E+00	U
Hexachlorinated Dibenzofurans, (total)	5.34E+01	12 / 33	3.41E+01	2.62E+00		<	2.68E+00	U	<	3.20E+00	U
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	14 / 33	3.12E+00	2.62E+00		<	2.68E+00	U	<	3.20E+00	U
OCDD	2.75E+03	23 / 33	6.70E+01	5.23E+00	J	5.70E+00	5.35E+00	J	<	6.41E+00	U
OCDF	1.99E+01	11 / 33	<	5.23E+00	U	<	5.35E+00	U	<	6.41E+00	U
Pentachlorinated Dibenzofurans, (total)	7.87E+01	16 / 33	7.41E+01	2.62E+00		2.07E+00	2.68E+00	J	<	3.20E+00	U
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	5 / 33	<	2.62E+00	U	<	2.68E+00	U	<	3.20E+00	U
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	9 / 33	1.67E+01	5.23E-01		<	5.35E-01	U	<	6.41E-01	U
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	1 / 33	<	5.23E-01	U	<	5.35E-01	U	<	6.41E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS08-001			CA508-SB08-005			CA508-SB08-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,1,1-Trichloroethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,1,2-Trichloroethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,1-Dichloroethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,1-Dichloroethene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,1-Dichloropropene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,2,3-Trichlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,2,3-Trichloropropane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,2,4-Trichlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,2,4-Trimethylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,2-Dichlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,2-Dichloroethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,2-Dichloroethene (cis)	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,2-Dichloroethene (trans)	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,2-Dichloropropane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,3-Dichlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,3-Dichloropropane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
1,4-Dichlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
2,2-Dichloropropane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
2-Chlorotoluene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
2-Hexanone	ND	0 / 33	<	2.10E-02	U	<	2.30E-02	U	<	2.00E-02	U
4-Chlorotoluene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
4-Methyl-2-Pentanone	ND	0 / 33	<	2.10E-02	U	<	2.30E-02	U	<	2.00E-02	U
Acetone	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Benzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Bromobenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Bromochloromethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Bromodichloromethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Bromoform	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Bromomethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Carbon Disulfide	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Carbon Tetrachloride	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Chlorobenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Chloroethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Chloroform	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS08-001			CA508-SB08-005			CA508-SB08-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
cis-1,3-Dichloropropene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Dibromochloromethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Dibromomethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Dichlorodifluoromethane	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Ethylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Hexachlorobutadiene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Isopropylbenzene (Cumene)	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Methylene Chloride	ND	0 / 33	<	1.10E-02	U	<	1.10E-02	U	<	1.00E-02	U
Naphthalene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
n-Butylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
n-Propylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
sec-Butylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Styrene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
t-Butylbenzene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Tetrachloroethene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Toluene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
trans-1,3-Dichloropropene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Trichloroethene	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Trichlorofluoromethane	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
Vinyl Chloride	ND	0 / 33	<	5.30E-03	U	<	5.70E-03	U	<	5.10E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,2-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,3-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,4-Dichlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,5-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,6-Trichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dichlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dimethylphenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dinitrophenol	ND	0 / 33	<	7.10E-01	U	<	7.00E-01	U	<	6.90E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chloronaphthalene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chlorophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Methylphenol (o-cresol)	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS08-001			CA508-SB08-005			CA508-SB08-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Nitrophenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
3-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 33	<	7.10E-01	U	<	7.00E-01	U	<	6.90E-01	U
4-Bromophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chloro-3-methylphenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chlorophenyl-phenylether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Methylphenol (p-cresol)	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitroaniline	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitrophenol	ND	0 / 33	<	7.10E-01	U	<	7.00E-01	U	<	6.90E-01	U
Benzyl Alcohol	ND	0 / 33	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Chloroethyl)ether	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Butylbenzylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Carbazole	6.00E-01	1 / 33	6.00E-01	3.50E-01		<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	4.70E-01	3.50E-01		<	3.50E-01	U	<	3.50E-01	U
Diethylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dimethylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-butylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-octylphthalate	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobutadiene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachloroethane	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Isophorone	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Nitrobenzene	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodimethylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodiphenylamine	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Pentachlorophenol	ND	0 / 33	<	7.10E-01	U	<	7.00E-01	U	<	6.90E-01	U
Phenol	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Unknown	ND	0 / 33	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.70E-01	4 / 33	1.70E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	7.80E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	3.40E-02	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	7.80E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	1.80E+00	1.10E-02		6.40E-03	1.10E-02	J	3.50E-03	1.10E-02	J
Benzo(a)pyrene	2.00E+00	16 / 33	2.00E+00	1.10E-02		5.20E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	2.50E+00	1.10E-02		6.80E-03	1.10E-02	J	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS08-001			CA508-SB08-005			CA508-SB08-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(g,h,i)perylene	1.10E+00	15 / 33	1.10E+00	1.10E-02		3.80E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	8.70E-01	1.10E-02		3.00E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	2.40E+00	1.10E-02		4.90E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	2.50E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32				8.40E-03	1.10E-02	J	4.30E-03	1.10E-02	J
Fluorene	5.00E-01	4 / 33	5.00E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	1.00E+00	1.10E-02		3.10E-03	1.10E-02	J	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	3.40E-01	1.10E-02		<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32				<	1.10E-02	U	2.70E-03	1.10E-02	J
Pyrene	3.00E-01	13 / 32				8.20E-03	1.10E-02	J	4.10E-03	1.10E-02	J
PESTICIDES (ORGANOCHLORINE) (mg/kg)											
4,4-DDD	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
4,4-DDE	4.80E-03	3 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
4,4-DDT	1.20E-02	8 / 33	1.30E-03	4.30E-03	J	<	4.20E-03	U	<	4.20E-03	U
Aldrin	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-Chlordane	3.40E-03	1 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
beta-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
delta-BHC	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	1.50E-03	4.30E-03	J	<	4.20E-03	U	<	4.20E-03	U
Endosulfan I	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Endosulfan II	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endosulfan sulfate	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endrin	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endrin aldehyde	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
Endrin ketone	ND	0 / 33	<	4.30E-03	U	<	4.20E-03	U	<	4.20E-03	U
gamma-BHC (Lindane)	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
gamma-Chlordane	1.90E-03	1 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor	ND	0 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	<	2.10E-03	U	<	2.10E-03	U	<	2.10E-03	U
Methoxychlor	ND	0 / 33	<	2.10E-02	U	<	2.10E-02	U	<	2.10E-02	U
POLYCHLORINATED BIPHENYLS (PCB) (mg/kg)											
PCB-1016	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1221	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1232	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1242	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1248	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1254	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.30E-02	U
PCB-1260	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.30E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS08-001			CA508-SB08-005			CA508-SB08-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (mg/kg)											
1,3,5-Trinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
1,3-Dinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4,6-Trinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Amino-4,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
3-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Amino-2,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
HMX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Nitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
RDX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Tetryl	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	1.20E+01	7 / 33	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	<	1.20E+00	U	<	1.20E+00	U	<	1.10E+00	U
Oil Range Organics	1.60E+02	18 / 33	1.80E+01	2.10E+01	J	9.70E+00	2.10E+01	J	<	2.10E+01	U
METALS (mg/kg)											
Arsenic	5.59E+00	33 / 33	4.15E+00	4.95E-01		3.79E+00	5.24E-01		2.39E+00	5.21E-01	
Barium	8.44E+02	33 / 33	1.13E+02	4.95E-01		1.55E+02	5.24E-01		1.37E+02	5.21E-01	J
Cadmium	3.79E+00	33 / 33	3.56E-01	4.95E-01	J	2.24E-01	5.24E-01	J	2.06E-01	5.21E-01	J
Chromium	1.89E+01	33 / 33	1.35E+01	4.95E-01		1.11E+01	5.24E-01		6.99E+00	5.21E-01	
Lead	3.13E+01	33 / 33	1.30E+01	4.95E-01		6.44E+00	5.24E-01		4.09E+00	5.21E-01	
Mercury	2.71E-02	3 / 33	<	1.06E-01	U	<	1.06E-01	U	<	1.04E-01	U
Selenium	3.00E-01	24 / 33	1.34E-01	4.95E-01	J	1.02E-01	5.24E-01	J	<	5.21E-01	U
Silver	1.09E+00	12 / 33	6.36E-02	4.95E-01	J	<	5.24E-01	U	<	5.21E-01	U
DIOXINS/FURANS (ng/kg)											
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	1.52E+01	2.68E+00		7.62E-01	2.64E+00	J	<	2.62E+00	U
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	1.64E+00	2.68E+00	J	<	2.64E+00	U	<	2.62E+00	U
1,2,3,4,7,8,9-HpCDF	ND	0 / 33	<	2.68E+00	U	<	2.64E+00	U	<	2.62E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	<	2.68E+00	U	<	2.64E+00	U	<	2.62E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	5.74E-01	2.68E+00	J	<	2.64E+00	U	<	2.62E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01	10 / 33	4.17E-01	2.68E+00	J	<	2.64E+00	U	<	2.62E+00	U
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	<	2.68E+00	U	<	2.64E+00	U	<	2.62E+00	U
1,2,3,7,8,9-Hexachlorodibenzofuran	ND	0 / 33	<	2.68E+00	U	<	2.64E+00	U	<	2.62E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	<	2.68E+00	U	<	2.64E+00	U	<	2.62E+00	U
1,2,3,7,8,9-HxCDF	9.33E+02	16 / 33	6.87E+01	2.68E+00		<	2.64E+00	U	<	2.62E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS08-001			CA508-SB08-005			CA508-SB08-010		
DATE COLLECTED			January 23, 2013			January 23, 2013			January 23, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	<	2.68E+00	U	<	2.64E+00	U	<	2.62E+00	U
1,2,3,7,8-PeCDF	ND	0 / 33	<	2.68E+00	U	<	2.64E+00	U	<	2.62E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	<	2.68E+00	U	<	2.64E+00	U	<	2.62E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	<	2.68E+00	U	<	2.64E+00	U	<	2.62E+00	U
2,3,7,8-TCDD	ND	0 / 33	<	5.35E-01	U	<	5.28E-01	U	<	5.24E-01	U
2,3,7,8-TCDF	ND	0 / 33	<	5.35E-01	U	<	5.28E-01	U	<	5.24E-01	U
Dioxins/Furans	1.31E+01	23 / 33	3.18E-01	3.18E-01		9.20E-03	9.20E-03		<	4.83E-01	U
Heptachlorinated Dibenzofurans, (total)	3.91E+01	12 / 33	5.22E+00	2.68E+00		<	2.64E+00	U	<	2.62E+00	U
Hexachlorinated Dibenzofurans, (total)	5.34E+01	12 / 33	4.70E+00	2.68E+00		<	2.64E+00	U	<	2.62E+00	U
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	14 / 33	2.71E+00	2.68E+00		<	2.64E+00	U	<	2.62E+00	U
OCDD	2.75E+03	23 / 33	1.64E+02	5.35E+00		5.34E+00	5.28E+00	J	<	5.24E+00	U
OCDF	1.99E+01	11 / 33	2.80E+00	5.35E+00	J	<	5.28E+00	U	<	5.24E+00	U
Pentachlorinated Dibenzofurans, (total)	7.87E+01	16 / 33	5.76E+00	2.68E+00		<	2.64E+00	U	<	2.62E+00	U
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	5 / 33	<	2.68E+00	U	<	2.64E+00	U	<	2.62E+00	U
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	9 / 33	<	5.35E-01	U	<	5.28E-01	U	<	5.24E-01	U
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	1 / 33	<	5.35E-01	U	<	5.28E-01	U	<	5.24E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS09-001			CA508-SB09-005			CA508-SB09-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,1,1-Trichloroethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,1,2-Trichloroethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,1-Dichloroethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,1-Dichloroethene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,1-Dichloropropene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,2,3-Trichlorobenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,2,3-Trichloropropane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,2,4-Trichlorobenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,2,4-Trimethylbenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 33	<	1.30E-02	U	<	1.30E-02	U	<	1.00E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,2-Dichlorobenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,2-Dichloroethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,2-Dichloroethene (cis)	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,2-Dichloroethene (trans)	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,2-Dichloropropane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,3-Dichlorobenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,3-Dichloropropane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
1,4-Dichlorobenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
2,2-Dichloropropane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
2-Chlorotoluene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
2-Hexanone	ND	0 / 33	<	2.50E-02	U	<	2.50E-02	U	<	2.10E-02	U
4-Chlorotoluene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
4-Methyl-2-Pentanone	ND	0 / 33	<	2.50E-02	U	<	2.50E-02	U	<	2.10E-02	U
Acetone	ND	0 / 33	<	1.30E-02	U	<	1.30E-02	U	<	1.00E-02	U
Benzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Bromobenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Bromochloromethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Bromodichloromethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Bromoform	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Bromomethane	ND	0 / 33	<	1.30E-02	U	<	1.30E-02	U	<	1.00E-02	U
Carbon Disulfide	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Carbon Tetrachloride	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Chlorobenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Chloroethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Chloroform	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS09-001			CA508-SB09-005			CA508-SB09-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 33	<	1.30E-02	U	<	1.30E-02	U	<	1.00E-02	U
cis-1,3-Dichloropropene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Dibromochloromethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Dibromomethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Dichlorodifluoromethane	ND	0 / 33	<	1.30E-02	U	<	1.30E-02	U	<	1.00E-02	U
Ethylbenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Hexachlorobutadiene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Isopropylbenzene (Cumene)	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
m,p-Xylene (sum of isomers)	5.10E-03	2 / 33	<	1.30E-02	U	<	1.30E-02	U	<	1.00E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 33	<	1.30E-02	U	<	1.30E-02	U	<	1.00E-02	U
Methylene Chloride	ND	0 / 33	<	1.30E-02	U	<	1.30E-02	U	<	1.00E-02	U
Naphthalene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
n-Butylbenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
n-Propylbenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
sec-Butylbenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Styrene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
t-Butylbenzene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Tetrachloroethene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Toluene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
trans-1,3-Dichloropropene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Trichloroethene	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Trichlorofluoromethane	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
Vinyl Chloride	ND	0 / 33	<	6.30E-03	U	<	6.30E-03	U	<	5.20E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
1,2-Dichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
1,3-Dichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
1,4-Dichlorobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
2,4,5-Trichlorophenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
2,4,6-Trichlorophenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dichlorophenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dimethylphenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dinitrophenol	ND	0 / 33	<	2.10E+00	U	<	7.00E-01	U	<	7.10E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
2-Chloronaphthalene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
2-Chlorophenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
2-Methylphenol (o-cresol)	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS09-001			CA508-SB09-005			CA508-SB09-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
2-Nitrophenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
3-Nitroaniline	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 33	<	2.10E+00	U	<	7.00E-01	U	<	7.10E-01	U
4-Bromophenyl-phenylether	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
4-Chloro-3-methylphenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
4-Chlorophenyl-phenylether	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
4-Methylphenol (p-cresol)	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitroaniline	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitrophenol	ND	0 / 33	<	2.10E+00	U	<	7.00E-01	U	<	7.10E-01	U
Benzyl Alcohol	ND	0 / 33	<	4.10E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Chloroethyl)ether	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Butylbenzylphthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Carbazole	6.00E-01	1 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	4.70E-01	1 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Diethylphthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Dimethylphthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-butylphthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-octylphthalate	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobutadiene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Hexachloroethane	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Isophorone	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Nitrobenzene	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodimethylamine	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodiphenylamine	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Pentachlorophenol	ND	0 / 33	<	2.10E+00	U	<	7.00E-01	U	<	7.10E-01	U
Phenol	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
Unknown	ND	0 / 33	<	1.10E+00	U	<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.70E-01	4 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	7.80E-01	4 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	3.40E-02	3 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	7.80E-01	6 / 33	9.30E-03	3.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.80E+00	15 / 33	5.30E-02	3.20E-02		2.90E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	2.00E+00	16 / 33	6.30E-02	3.20E-02		6.00E-03	1.10E-02	J	<	1.10E-02	U
Benzo(b)fluoranthene	2.50E+00	16 / 33	9.10E-02	3.20E-02		5.60E-03	1.10E-02	J	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS09-001			CA508-SB09-005			CA508-SB09-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(g,h,i)perylene	1.10E+00	15 / 33	4.20E-02	3.20E-02		3.80E-03	1.10E-02	J	<	1.10E-02	U
Benzo(k)fluoranthene	8.70E-01	12 / 33	2.10E-02	3.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	2.40E+00	12 / 33	5.10E-02	3.20E-02		<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.50E-01	5 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	3.50E-01	16 / 32	1.20E-01	3.20E-02		5.50E-03	1.10E-02	J	<	1.10E-02	U
Fluorene	5.00E-01	4 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	1.00E+00	14 / 33	4.20E-02	3.20E-02		5.50E-03	1.10E-02	J	<	1.10E-02	U
Naphthalene	3.40E-01	4 / 33	<	3.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.20E-01	10 / 32	5.80E-02	3.20E-02		<	1.10E-02	U	<	1.10E-02	U
Pyrene	3.00E-01	13 / 32	1.00E-01	3.20E-02		4.60E-03	1.10E-02	J	<	1.10E-02	U
PESTICIDES (ORGANOCHLORINE) (mg/kg)											
4,4-DDD	ND	0 / 33	<	8.50E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDE	4.80E-03	3 / 33	<	8.50E-03	U	<	4.20E-03	U	<	4.30E-03	U
4,4-DDT	1.20E-02	8 / 33	2.60E-03	8.50E-03	J	1.70E-03	4.20E-03	J	<	4.30E-03	U
Aldrin	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-BHC	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-Chlordane	3.40E-03	1 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
beta-BHC	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
delta-BHC	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	8.10E-03	3 / 33	<	8.50E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endosulfan I	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
Endosulfan II	ND	0 / 33	<	8.50E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 33	<	8.50E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin	ND	0 / 33	<	8.50E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin aldehyde	ND	0 / 33	<	8.50E-03	U	<	4.20E-03	U	<	4.30E-03	U
Endrin ketone	ND	0 / 33	<	8.50E-03	U	<	4.20E-03	U	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
gamma-Chlordane	1.90E-03	1 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor	ND	0 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	2.50E-03	2 / 33	<	4.30E-03	U	<	2.10E-03	U	<	2.10E-03	U
Methoxychlor	ND	0 / 33	<	4.30E-02	U	<	2.10E-02	U	<	2.10E-02	U
POLYCHLORINATED BIPHENYLS (PCB) (mg/kg)											
PCB-1016	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1221	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1232	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1242	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1248	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1254	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
PCB-1260	ND	0 / 33	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS09-001			CA508-SB09-005			CA508-SB09-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
EXPLOSIVES (mg/kg)											
1,3,5-Trinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
1,3-Dinitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4,6-Trinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,4-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2,6-Dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Amino-4,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
2-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
3-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Amino-2,6-dinitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
4-Nitrotoluene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
HMX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Nitrobenzene	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
RDX	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
Tetryl	ND	0 / 33	<	2.00E-01	U	<	2.00E-01	U	<	2.00E-01	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	1.20E+01	7 / 33	6.00E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	2.60E+00	1 / 33	<	1.30E+00	U	<	1.30E+00	U	<	9.70E-01	U
Oil Range Organics	1.60E+02	18 / 33	6.70E+01	2.10E+01		1.40E+01	2.10E+01	J	<	2.10E+01	U
METALS (mg/kg)											
Arsenic	5.59E+00	33 / 33	3.86E+00	5.12E-01		3.41E+00	5.15E-01		2.38E+00	5.16E-01	
Barium	8.44E+02	33 / 33	1.47E+02	5.12E-01		1.89E+02	5.15E-01		3.98E+02	5.16E-01	
Cadmium	3.79E+00	33 / 33	1.98E+00	5.12E-01		5.63E-01	5.15E-01		3.14E-01	5.16E-01	J
Chromium	1.89E+01	33 / 33	1.24E+01	5.12E-01		9.65E+00	5.15E-01		6.97E+00	5.16E-01	
Lead	3.13E+01	33 / 33	3.08E+01	5.12E-01		8.55E+00	5.15E-01		5.82E+00	5.16E-01	
Mercury	2.71E-02	3 / 33	<	1.06E-01	U	<	1.05E-01	U	<	1.07E-01	U
Selenium	3.00E-01	24 / 33	1.14E-01	5.12E-01	J	7.54E-02	5.15E-01	J	<	5.16E-01	U
Silver	1.09E+00	12 / 33	9.97E-02	5.12E-01	J	<	5.15E-01	U	<	5.16E-01	U
DIOXINS/FURANS (ng/kg)											
1,2,3,4,6,7,8-HpCDD	4.63E+02	18 / 33	2.91E+02	2.65E+00		5.59E+01	2.58E+00		2.67E+01	2.66E+00	
1,2,3,4,6,7,8-HpCDF	1.54E+01	14 / 33	7.66E+00	2.65E+00		8.95E-01	2.58E+00	J	7.15E-01	2.66E+00	J
1,2,3,4,7,8,9-HpCDF	ND	0 / 33	<	2.65E+00	U	<	2.58E+00	U	<	2.66E+00	U
1,2,3,4,7,8-HxCDD	6.03E+00	5 / 33	3.11E+00	2.65E+00		<	2.58E+00	U	<	2.66E+00	U
1,2,3,4,7,8-HxCDF	2.30E+00	6 / 33	1.59E+00	2.65E+00	J	<	2.58E+00	U	<	2.66E+00	U
1,2,3,6,7,8-HxCDD	1.66E+01	10 / 33	1.18E+01	2.65E+00		2.04E+00	2.58E+00	J	1.35E+00	2.66E+00	J
1,2,3,6,7,8-HxCDF	2.24E+00	5 / 33	1.33E+00	2.65E+00	J	<	2.58E+00	U	<	2.66E+00	U
1,2,3,7,8,9-Hexachlorodibenzofuran	ND	0 / 33	<	2.65E+00	U	<	2.58E+00	U	<	2.66E+00	U
1,2,3,7,8,9-HxCDD	1.82E+01	8 / 33	9.60E+00	2.65E+00		1.07E+00	2.58E+00	J	1.12E+00	2.66E+00	J
1,2,3,7,8,9-HxCDF	9.33E+02	16 / 33	5.66E+02	2.65E+00		9.66E+01	2.58E+00		4.56E+01	2.66E+00	

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
SURFACE DISPOSAL AREA (SD-C508)

FIELD ID			CA508-SS09-001			CA508-SB09-005			CA508-SB09-010		
DATE COLLECTED			January 22, 2013			January 22, 2013			January 22, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
1,2,3,7,8-PeCDD	2.21E+00	4 / 33	1.88E+00	2.65E+00	J	<	2.58E+00	U	<	2.66E+00	U
1,2,3,7,8-PeCDF	ND	0 / 33	<	2.65E+00	U	<	2.58E+00	U	<	2.66E+00	U
2,3,4,6,7,8-HxCDF	3.71E+00	9 / 33	1.59E+00	2.65E+00	J	<	2.58E+00	U	<	2.66E+00	U
2,3,4,7,8-PeCDF	1.23E+00	3 / 33	<	2.65E+00	U	<	2.58E+00	U	<	2.66E+00	U
2,3,7,8-TCDD	ND	0 / 33	<	5.31E-01	U	<	5.17E-01	U	<	5.31E-01	U
2,3,7,8-TCDF	ND	0 / 33	<	5.31E-01	U	<	5.17E-01	U	<	5.31E-01	U
Dioxins/Furans	1.31E+01	23 / 33	8.21E+00	8.21E+00		9.46E-01	9.46E-01		5.51E-01	5.51E-01	
Heptachlorinated Dibenzofurans, (total)	3.91E+01	12 / 33	1.75E+01	2.65E+00		8.95E-01	2.58E+00	J	7.15E-01	2.66E+00	J
Hexachlorinated Dibenzofurans, (total)	5.34E+01	12 / 33	2.50E+01	2.65E+00		2.05E+00	2.58E+00	J	<	2.66E+00	U
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	14 / 33	9.83E+01	2.65E+00		5.31E+00	2.58E+00		6.50E+00	2.66E+00	
OCDD	2.75E+03	23 / 33	1.48E+03	5.31E+00	J	2.23E+02	5.17E+00		9.84E+01	5.31E+00	J
OCDF	1.99E+01	11 / 33	7.86E+00	5.31E+00		<	5.17E+00	U	<	5.31E+00	U
Pentachlorinated Dibenzofurans, (total)	7.87E+01	16 / 33	2.81E+01	2.65E+00		1.62E+00	2.58E+00	J	5.56E-01	2.66E+00	J
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	5 / 33	2.82E+00	2.65E+00		<	2.58E+00	U	<	2.66E+00	U
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	9 / 33	1.48E+00	5.31E-01		<	5.17E-01	U	<	5.31E-01	U
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	1 / 33	<	5.31E-01	U	<	5.17E-01	U	<	5.31E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB01-004			CA129-SB01-009			CA129-SB01-015		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,1-Dichloroethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,1-Dichloroethene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,1-Dichloropropene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,2-Dichloroethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,2-Dichloropropane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,3-Dichloropropane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
2,2-Dichloropropane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
2-Chlorotoluene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
2-Hexanone	ND	0 / 34	<	2.40E-02	U	<	2.10E-02	U	<	2.20E-02	U
4-Chlorotoluene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.40E-02	U	<	2.10E-02	U	<	2.20E-02	U
Acetone	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Bromobenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Bromochloromethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Bromodichloromethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Bromoform	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Bromomethane	2.70E-03	1 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Carbon Tetrachloride	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Chlorobenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Chloroethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Chloroform	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB01-004			CA129-SB01-009			CA129-SB01-015		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Dibromochloromethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Dibromomethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Hexachlorobutadiene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
n-Butylbenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
n-Propylbenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
sec-Butylbenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Styrene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
t-Butylbenzene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Tetrachloroethene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Toluene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Trichloroethene	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Trichlorofluoromethane	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
Vinyl Chloride	ND	0 / 34	<	6.10E-03	U	<	5.30E-03	U	<	5.60E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
2,4-Dinitrotoluene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chloronaphthalene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB01-004			CA129-SB01-009			CA129-SB01-015		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Nitrophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
3-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
4-Bromophenyl-phenylether	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitrophenol	ND	0 / 34	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
Benzyl Alcohol	ND	0 / 34	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Butylbenzylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Carbazole	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Diethylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dimethylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-butylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-octylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobutadiene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachloroethane	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Isophorone	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Nitrobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
Pentachlorophenol	ND	0 / 34	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
Phenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.20E-02	9 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01	18 / 34	<	1.10E-02	U	4.50E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01	24 / 34	<	1.10E-02	U	6.70E-03	1.10E-02	J	4.80E-03	1.10E-02	J
Benzo(b)fluoranthene	2.70E-01	21 / 34	<	1.10E-02	U	5.10E-03	1.10E-02	J	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	<	1.10E-02	U	5.60E-03	1.10E-02	J	3.30E-03	1.10E-02	J

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB01-004			CA129-SB01-009			CA129-SB01-015		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.50E-01	17 / 34	<	1.10E-02	U	3.10E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01	24 / 34	<	1.10E-02	U	7.70E-03	1.10E-02	J	3.00E-03	1.10E-02	J
Fluorene	2.20E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	<	1.10E-02	U	5.20E-03	1.10E-02	J	<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	<	1.10E-02	U	4.20E-03	1.10E-02	J	<	1.10E-02	U
Pyrene	2.80E-01	20 / 34	<	1.10E-02	U	6.80E-03	1.10E-02	J	<	1.10E-02	U
Pesticides/PCBs (mg/kg)											
4,4-DDD	ND	0 / 34	<	4.20E-03	U	<	4.30E-03	U	<	4.30E-03	U
4,4-DDE	7.50E-03	5 / 34	<	4.20E-03	U	<	4.30E-03	U	<	4.30E-03	U
4,4-DDT	3.70E-02	12 / 34	1.70E-03	4.20E-03	J	2.00E-03	4.30E-03	J	2.40E-03	4.30E-03	J
Aldrin	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-BHC	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-Chlordane	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Aroclor 1016	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1221	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1232	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1242	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1248	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1254	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1260	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
beta-BHC	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
delta-BHC	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Dieldrin	ND	0 / 34	<	4.20E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endosulfan I	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Endosulfan II	ND	0 / 34	<	4.20E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.20E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin	ND	0 / 34	<	4.20E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin aldehyde	ND	0 / 34	<	4.20E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin ketone	ND	0 / 34	<	4.20E-03	U	<	4.30E-03	U	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
gamma-Chlordane	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Methoxychlor	ND	0 / 34	<	2.10E-02	U	<	2.10E-02	U	<	2.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.00E+02	11 / 34	<	1.10E+01	U	7.40E+00	1.10E+01	J	3.00E+00	1.10E+01	J
Gasoline Range Organics	ND	0 / 34	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB01-004			CA129-SB01-009			CA129-SB01-015		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	8.90E+00	2.10E+01	J	6.80E+00	2.10E+01	J	<	2.20E+01	U
METALS (mg/kg)											
Arsenic	4.34E+00	34 / 34	3.83E+00	4.91E-01		3.19E+00	5.27E-01		2.46E+00	5.32E-01	
Barium	7.07E+02	34 / 34	1.03E+02	4.91E-01		3.00E+02	5.27E-01		5.45E+02	5.32E-01	
Cadmium	3.97E-01	34 / 34	2.66E-01	4.91E-01	J	2.58E-01	5.27E-01	J	2.13E-01	5.32E-01	J
Chromium	1.54E+01	34 / 34	1.37E+01	4.91E-01		8.10E+00	5.27E-01		6.73E+00	5.32E-01	
Lead	1.24E+01	34 / 34	8.18E+00	4.91E-01		5.08E+00	5.27E-01		3.96E+00	5.32E-01	
Mercury	1.56E-02	3 / 34	<	1.06E-01	U	<	1.06E-01	U	<	1.08E-01	U
Selenium	1.95E-01	15 / 34	1.45E-01	4.91E-01	J	<	5.27E-01	U	<	5.32E-01	U
Silver	5.57E-02	3 / 34	5.51E-02	4.91E-01	J	<	5.27E-01	U	<	5.32E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB01-018			CA129-SB02-005			CA129-SB02-010		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,1-Dichloroethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,1-Dichloroethene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,1-Dichloropropene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	1.20E-02	U	<	1.00E-02	U	<	1.20E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,2-Dichloroethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,2-Dichloropropane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,3-Dichloropropane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
2,2-Dichloropropane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
2-Chlorotoluene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
2-Hexanone	ND	0 / 34	<	2.30E-02	U	<	2.10E-02	U	<	2.40E-02	U
4-Chlorotoluene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.30E-02	U	<	2.10E-02	U	<	2.40E-02	U
Acetone	ND	0 / 34	<	1.20E-02	U	<	1.00E-02	U	<	1.20E-02	U
Benzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Bromobenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Bromochloromethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Bromodichloromethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Bromoform	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Bromomethane	2.70E-03	1 / 34	<	1.20E-02	U	<	1.00E-02	U	<	1.20E-02	U
Carbon Disulfide	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Carbon Tetrachloride	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Chlorobenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Chloroethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Chloroform	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB01-018			CA129-SB02-005			CA129-SB02-010		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	1.20E-02	U	<	1.00E-02	U	<	1.20E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Dibromochloromethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Dibromomethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	1.20E-02	U	<	1.00E-02	U	<	1.20E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Hexachlorobutadiene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	1.20E-02	U	<	1.00E-02	U	<	1.20E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	1.20E-02	U	<	1.00E-02	U	<	1.20E-02	U
Methylene Chloride	ND	0 / 34	<	1.20E-02	U	<	1.00E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	UJ	<	5.90E-03	U
n-Butylbenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
n-Propylbenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
sec-Butylbenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Styrene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
t-Butylbenzene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Tetrachloroethene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Toluene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Trichloroethene	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Trichlorofluoromethane	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
Vinyl Chloride	ND	0 / 34	<	5.80E-03	U	<	5.20E-03	U	<	5.90E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	7.00E-01	U	<	7.10E-01	U	<	7.10E-01	U
2,4-Dinitrotoluene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Chloronaphthalene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Chlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB01-018			CA129-SB02-005			CA129-SB02-010		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Nitrophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
3-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	7.00E-01	U	<	7.10E-01	U	<	7.10E-01	U
4-Bromophenyl-phenylether	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Nitrophenol	ND	0 / 34	<	7.00E-01	U	<	7.10E-01	U	<	7.10E-01	U
Benzyl Alcohol	ND	0 / 34	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Butylbenzylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Carbazole	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Dibenzofuran	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Diethylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Dimethylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Di-n-butylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Di-n-octylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachlorobutadiene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachloroethane	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Isophorone	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Nitrobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Pentachlorophenol	ND	0 / 34	<	7.00E-01	U	<	7.10E-01	U	<	7.10E-01	U
Phenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.20E-02	9 / 34	<	1.10E-02	U	<	1.10E-02	U	6.40E-03	1.10E-02	J
Acenaphthene	2.50E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01	18 / 34	4.60E-03	1.10E-02	J	7.30E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01	24 / 34	6.80E-03	1.10E-02	J	1.10E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-01	21 / 34	5.90E-03	1.10E-02	J	1.20E-02	1.10E-02		<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	6.20E-03	1.10E-02	J	1.70E-02	1.10E-02		<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB01-018			CA129-SB02-005			CA129-SB02-010		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	<	1.10E-02	U	3.50E-03	1.10E-02	J	<	1.10E-02	U
Chrysene	1.50E-01	17 / 34	3.20E-03	1.10E-02	J	5.10E-03	1.10E-02	J	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01	24 / 34	8.80E-03	1.10E-02	J	1.10E-02	1.10E-02		<	1.10E-02	U
Fluorene	2.20E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	5.10E-03	1.10E-02	J	1.10E-02	1.10E-02		<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	<	1.10E-02	U	<	1.10E-02	UJ	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	4.90E-03	1.10E-02	J	4.30E-03	1.10E-02	J	<	1.10E-02	U
Pyrene	2.80E-01	20 / 34	7.20E-03	1.10E-02	J	1.10E-02	1.10E-02		<	1.10E-02	U
Pesticides/PCBs (mg/kg)											
4,4-DDD	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
4,4-DDE	7.50E-03	5 / 34	<	4.30E-03	U	7.50E-03	4.30E-03		<	4.30E-03	U
4,4-DDT	3.70E-02	12 / 34	3.90E-03	4.30E-03	J	3.70E-02	4.30E-03		<	4.30E-03	U
Aldrin	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-BHC	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-Chlordane	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Aroclor 1016	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1221	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1232	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1242	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1248	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1254	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1260	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
beta-BHC	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
delta-BHC	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Dieldrin	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endosulfan I	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Endosulfan II	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin aldehyde	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin ketone	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
gamma-Chlordane	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Methoxychlor	ND	0 / 34	<	2.10E-02	U	<	2.10E-02	U	<	2.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.00E+02	11 / 34	1.20E+01	1.10E+01		2.90E+00	1.10E+01	J	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 34	<	1.10E+00	U	<	1.00E+00	U	<	1.30E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB01-018			CA129-SB02-005			CA129-SB02-010		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	1.50E+01	2.10E+01	J	3.50E+01	2.10E+01		<	2.20E+01	U
METALS (mg/kg)											
Arsenic	4.34E+00	34 / 34	2.63E+00	5.07E-01		4.11E+00	5.04E-01		2.70E+00	5.35E-01	
Barium	7.07E+02	34 / 34	3.41E+02	5.07E-01		1.14E+02	5.04E-01	J	5.45E+02	5.35E-01	
Cadmium	3.97E-01	34 / 34	3.10E-01	5.07E-01	J	2.86E-01	5.04E-01	J	2.86E-01	5.35E-01	J
Chromium	1.54E+01	34 / 34	9.50E+00	5.07E-01		1.34E+01	5.04E-01		6.61E+00	5.35E-01	
Lead	1.24E+01	34 / 34	6.15E+00	5.07E-01		9.24E+00	5.04E-01	J	4.96E+00	5.35E-01	
Mercury	1.56E-02	3 / 34	<	1.06E-01	U	<	1.07E-01	U	<	1.06E-01	U
Selenium	1.95E-01	15 / 34	<	5.07E-01	U	1.39E-01	5.04E-01	J	<	5.35E-01	U
Silver	5.57E-02	3 / 34	<	5.07E-01	U	5.28E-02	5.04E-01	J	<	5.35E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB02-015			CA129-SB02-020			CA129-SB03-005		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,1-Dichloroethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,1-Dichloroethene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,1-Dichloropropene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	1.10E-02	U	<	1.20E-02	U	<	1.40E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,2-Dichloroethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,2-Dichloropropane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,3-Dichloropropane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
2,2-Dichloropropane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
2-Chlorotoluene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
2-Hexanone	ND	0 / 34	<	2.20E-02	U	<	2.40E-02	U	<	2.70E-02	U
4-Chlorotoluene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.20E-02	U	<	2.40E-02	U	<	2.70E-02	U
Acetone	ND	0 / 34	<	1.10E-02	U	<	1.20E-02	U	<	1.40E-02	U
Benzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Bromobenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Bromochloromethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Bromodichloromethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Bromoform	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Bromomethane	2.70E-03	1 / 34	<	1.10E-02	U	<	1.20E-02	U	<	1.40E-02	U
Carbon Disulfide	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Carbon Tetrachloride	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Chlorobenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Chloroethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Chloroform	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB02-015			CA129-SB02-020			CA129-SB03-005		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	1.10E-02	U	<	1.20E-02	U	<	1.40E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Dibromochloromethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Dibromomethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	1.10E-02	U	<	1.20E-02	U	<	1.40E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Hexachlorobutadiene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	1.10E-02	U	<	1.20E-02	U	<	1.40E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	1.10E-02	U	<	1.20E-02	U	<	1.40E-02	U
Methylene Chloride	ND	0 / 34	<	1.10E-02	U	<	1.20E-02	U	<	1.40E-02	U
Naphthalene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
n-Butylbenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
n-Propylbenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
sec-Butylbenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Styrene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
t-Butylbenzene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Tetrachloroethene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Toluene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Trichloroethene	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Trichlorofluoromethane	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
Vinyl Chloride	ND	0 / 34	<	5.50E-03	U	<	5.90E-03	U	<	6.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	7.20E-01	U	<	7.10E-01	U	<	1.40E+00	U
2,4-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
2-Chloronaphthalene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
2-Chlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB02-015			CA129-SB02-020			CA129-SB03-005		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
2-Nitrophenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
3-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	7.20E-01	U	<	7.10E-01	U	<	1.40E+00	U
4-Bromophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
4-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
4-Nitrophenol	ND	0 / 34	<	7.20E-01	U	<	7.10E-01	U	<	1.40E+00	U
Benzyl Alcohol	ND	0 / 34	<	1.40E+00	U	<	1.40E+00	U	<	2.70E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Butylbenzylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Carbazole	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Dibenzofuran	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Diethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Dimethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Di-n-butylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Di-n-octylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Hexachlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Hexachlorobutadiene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Hexachloroethane	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Isophorone	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Nitrobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
Pentachlorophenol	ND	0 / 34	<	7.20E-01	U	<	7.10E-01	U	<	1.40E+00	U
Phenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	7.00E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.20E-02	9 / 34	<	1.10E-02	U	5.30E-03	1.10E-02	J	1.20E-02	2.10E-02	J
Acenaphthene	2.50E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	1.60E-02	2.10E-02	J
Acenaphthylene	7.70E-03	4 / 34	<	1.10E-02	U	<	1.10E-02	U	6.80E-03	2.10E-02	J
Anthracene	2.70E-02	6 / 34	<	1.10E-02	U	<	1.10E-02	U	2.70E-02	2.10E-02	
Benzo(a)anthracene	1.50E-01	18 / 34	3.30E-03	1.10E-02	J	<	1.10E-02	U	9.60E-02	2.10E-02	
Benzo(a)pyrene	1.80E-01	24 / 34	6.40E-03	1.10E-02	J	5.60E-03	1.10E-02	J	1.10E-01	2.10E-02	
Benzo(b)fluoranthene	2.70E-01	21 / 34	5.10E-03	1.10E-02	J	3.60E-03	1.10E-02	J	1.70E-01	2.10E-02	
Benzo(g,h,i)perylene	1.10E-01	20 / 34	3.80E-03	1.10E-02	J	4.90E-03	1.10E-02	J	7.30E-02	2.10E-02	

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB02-015			CA129-SB02-020			CA129-SB03-005		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	<	1.10E-02	U	<	1.10E-02	U	4.40E-02	2.10E-02	
Chrysene	1.50E-01	17 / 34	3.00E-03	1.10E-02	J	<	1.10E-02	U	1.00E-01	2.10E-02	
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	2.10E-02	J
Fluoranthene	2.90E-01	24 / 34	8.20E-03	1.10E-02	J	3.80E-03	1.10E-02	J	2.60E-01	2.10E-02	
Fluorene	2.20E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	2.10E-02	J
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	5.90E-03	1.10E-02	J	<	1.10E-02	U	5.50E-02	2.10E-02	
Naphthalene	2.20E-02	4 / 34	<	1.10E-02	U	<	1.10E-02	U	2.20E-02	2.10E-02	
Phenanthrene	2.00E-01	17 / 34	5.50E-03	1.10E-02	J	<	1.10E-02	U	1.80E-01	2.10E-02	
Pyrene	2.80E-01	20 / 34	6.90E-03	1.10E-02	J	4.10E-03	1.10E-02	J	2.20E-01	2.10E-02	
Pesticides/PCBs (mg/kg)											
4,4-DDD	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.20E-03	U
4,4-DDE	7.50E-03	5 / 34	1.40E-03	4.30E-03	J	1.80E-03	4.30E-03	J	<	4.20E-03	U
4,4-DDT	3.70E-02	12 / 34	6.60E-03	4.30E-03		8.30E-03	4.30E-03		6.70E-03	4.20E-03	
Aldrin	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
alpha-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
alpha-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Aroclor 1016	ND	0 / 34	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
Aroclor 1221	ND	0 / 34	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
Aroclor 1232	ND	0 / 34	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
Aroclor 1242	ND	0 / 34	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
Aroclor 1248	ND	0 / 34	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
Aroclor 1254	ND	0 / 34	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
Aroclor 1260	ND	0 / 34	<	5.40E-02	U	<	5.40E-02	U	<	5.30E-02	U
beta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
delta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Dieldrin	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.20E-03	U
Endosulfan I	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Endosulfan II	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.20E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.20E-03	U
Endrin	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.20E-03	U
Endrin aldehyde	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.20E-03	U
Endrin ketone	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.20E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
gamma-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Heptachlor	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Methoxychlor	ND	0 / 34	<	2.20E-02	U	<	2.20E-02	U	<	2.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.00E+02	11 / 34	<	1.10E+01	U	3.20E+00	1.10E+01	J	2.30E+01	1.10E+01	
Gasoline Range Organics	ND	0 / 34	<	1.10E+00	U	<	1.20E+00	U	<	1.20E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB02-015			CA129-SB02-020			CA129-SB03-005		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	7.30E+00	2.20E+01	J	2.60E+01	2.20E+01		1.90E+02	2.10E+01	
METALS (mg/kg)											
Arsenic	4.34E+00	34 / 34	2.83E+00	5.37E-01		2.69E+00	5.05E-01		4.02E+00	4.97E-01	
Barium	7.07E+02	34 / 34	3.62E+02	5.37E-01		2.84E+02	5.05E-01		1.37E+02	4.97E-01	
Cadmium	3.97E-01	34 / 34	2.77E-01	5.37E-01	J	3.16E-01	5.05E-01	J	2.65E-01	4.97E-01	J
Chromium	1.54E+01	34 / 34	7.26E+00	5.37E-01		8.15E+00	5.05E-01		1.16E+01	4.97E-01	
Lead	1.24E+01	34 / 34	5.26E+00	5.37E-01		5.95E+00	5.05E-01		1.03E+01	4.97E-01	
Mercury	1.56E-02	3 / 34	<	1.08E-01	U	<	1.07E-01	U	<	1.05E-01	U
Selenium	1.95E-01	15 / 34	<	5.37E-01	U	<	5.05E-01	U	1.31E-01	4.97E-01	J
Silver	5.57E-02	3 / 34	<	5.37E-01	U	<	5.05E-01	U	<	4.97E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB03-010			CA129-SB03-015			CA129-SB03-020		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,1-Dichloroethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,1-Dichloroethene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,1-Dichloropropene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,2-Dichloroethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,2-Dichloropropane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,3-Dichloropropane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
2,2-Dichloropropane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
2-Chlorotoluene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
2-Hexanone	ND	0 / 34	<	2.20E-02	U	<	2.20E-02	U	<	2.40E-02	U
4-Chlorotoluene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.20E-02	U	<	2.20E-02	U	<	2.40E-02	U
Acetone	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Benzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Bromobenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Bromochloromethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Bromodichloromethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Bromoform	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Bromomethane	2.70E-03	1 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Carbon Disulfide	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Carbon Tetrachloride	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Chlorobenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Chloroethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Chloroform	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB03-010			CA129-SB03-015			CA129-SB03-020		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Dibromochloromethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Dibromomethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	5.40E-03	U	2.20E-03	5.40E-03	J	<	6.00E-03	U
Hexachlorobutadiene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Methylene Chloride	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
n-Butylbenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
n-Propylbenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
sec-Butylbenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Styrene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
t-Butylbenzene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Tetrachloroethene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Toluene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Trichloroethene	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Trichlorofluoromethane	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
Vinyl Chloride	ND	0 / 34	<	5.40E-03	U	<	5.40E-03	U	<	6.00E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
2,4-Dinitrotoluene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Chloronaphthalene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Chlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB03-010			CA129-SB03-015			CA129-SB03-020		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Nitrophenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
3-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
4-Bromophenyl-phenylether	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Nitrophenol	ND	0 / 34	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
Benzyl Alcohol	ND	0 / 34	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Butylbenzylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Carbazole	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Dibenzofuran	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Diethylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Dimethylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Di-n-butylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Di-n-octylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachlorobutadiene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachloroethane	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Isophorone	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Nitrobenzene	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
Pentachlorophenol	ND	0 / 34	<	7.00E-01	U	<	7.00E-01	U	<	7.10E-01	U
Phenol	ND	0 / 34	<	3.50E-01	U	<	3.50E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.20E-02	9 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01	18 / 34	3.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01	24 / 34	6.10E-03	1.10E-02	J	<	1.10E-02	U	5.20E-03	1.10E-02	J
Benzo(b)fluoranthene	2.70E-01	21 / 34	4.80E-03	1.10E-02	J	3.50E-03	1.10E-02	J	3.10E-03	1.10E-02	J
Benzo(g,h,i)perylene	1.10E-01	20 / 34	4.00E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB03-010			CA129-SB03-015			CA129-SB03-020		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.50E-01	17 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01	24 / 34	6.80E-03	1.10E-02	J	<	1.10E-02	U	3.80E-03	1.10E-02	J
Fluorene	2.20E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	4.80E-03	1.10E-02	J	<	1.10E-02	U	4.80E-03	1.10E-02	J
Naphthalene	2.20E-02	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Pyrene	2.80E-01	20 / 34	5.20E-03	1.10E-02	J	<	1.10E-02	U	3.40E-03	1.10E-02	J
Pesticides/PCBs (mg/kg)											
4,4-DDD	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
4,4-DDE	7.50E-03	5 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
4,4-DDT	3.70E-02	12 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Aldrin	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-BHC	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-Chlordane	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Aroclor 1016	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1221	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1232	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1242	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1248	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1254	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1260	ND	0 / 34	<	5.30E-02	U	<	5.30E-02	U	<	5.40E-02	U
beta-BHC	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
delta-BHC	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Dieldrin	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endosulfan I	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Endosulfan II	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin aldehyde	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin ketone	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
gamma-Chlordane	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.10E-03	U	<	2.10E-03	U	<	2.20E-03	U
Methoxychlor	ND	0 / 34	<	2.10E-02	U	<	2.10E-02	U	<	2.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.00E+02	11 / 34	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 34	<	1.00E+00	U	<	1.00E+00	U	<	1.10E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB03-010			CA129-SB03-015			CA129-SB03-020		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	3.50E+01	2.10E+01		9.60E+00	2.10E+01	J	6.60E+00	2.20E+01	J
METALS (mg/kg)											
Arsenic	4.34E+00	34 / 34	2.91E+00	5.32E-01		2.65E+00	5.33E-01		2.23E+00	4.94E-01	
Barium	7.07E+02	34 / 34	2.81E+02	5.32E-01		2.98E+02	5.33E-01		1.68E+02	4.94E-01	
Cadmium	3.97E-01	34 / 34	2.33E-01	5.32E-01	J	2.77E-01	5.33E-01	J	3.30E-01	4.94E-01	J
Chromium	1.54E+01	34 / 34	6.32E+00	5.32E-01		7.71E+00	5.33E-01		7.49E+00	4.94E-01	
Lead	1.24E+01	34 / 34	4.62E+00	5.32E-01		5.55E+00	5.33E-01		6.00E+00	4.94E-01	
Mercury	1.56E-02	3 / 34	<	1.06E-01	U	<	1.05E-01	U	<	1.07E-01	U
Selenium	1.95E-01	15 / 34	<	5.32E-01	U	<	5.33E-01	U	<	4.94E-01	U
Silver	5.57E-02	3 / 34	<	5.32E-01	U	<	5.33E-01	U	<	4.94E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB03-025			CA129-SB04-005			CA129-SB04-009		
DATE COLLECTED			January 25, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,1-Dichloroethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,1-Dichloroethene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,1-Dichloropropene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	1.20E-02	U	<	1.30E-02	U	<	1.20E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,2-Dichloroethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,2-Dichloropropane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,3-Dichloropropane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
2,2-Dichloropropane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
2-Chlorotoluene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
2-Hexanone	ND	0 / 34	<	2.40E-02	U	<	2.60E-02	U	<	2.30E-02	U
4-Chlorotoluene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.40E-02	U	<	2.60E-02	U	<	2.30E-02	U
Acetone	ND	0 / 34	<	1.20E-02	U	<	1.30E-02	U	<	1.20E-02	U
Benzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Bromobenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Bromochloromethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Bromodichloromethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Bromoform	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Bromomethane	2.70E-03	1 / 34	<	1.20E-02	U	<	1.30E-02	U	<	1.20E-02	U
Carbon Disulfide	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Carbon Tetrachloride	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Chlorobenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Chloroethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Chloroform	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB03-025			CA129-SB04-005			CA129-SB04-009		
DATE COLLECTED			January 25, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	1.20E-02	U	<	1.30E-02	U	<	1.20E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Dibromochloromethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Dibromomethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	1.20E-02	U	<	1.30E-02	U	<	1.20E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Hexachlorobutadiene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	1.20E-02	U	<	1.30E-02	U	<	1.20E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	1.20E-02	U	<	1.30E-02	U	<	1.20E-02	U
Methylene Chloride	ND	0 / 34	<	1.20E-02	U	<	1.30E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
n-Butylbenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
n-Propylbenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
sec-Butylbenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Styrene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
t-Butylbenzene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Tetrachloroethene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Toluene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Trichloroethene	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Trichlorofluoromethane	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
Vinyl Chloride	ND	0 / 34	<	5.90E-03	U	<	6.40E-03	U	<	5.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	7.30E-01	U	<	7.00E-01	U	<	7.00E-01	U
2,4-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chloronaphthalene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Chlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB03-025			CA129-SB04-005			CA129-SB04-009		
DATE COLLECTED			January 25, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
2-Nitrophenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
3-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	7.30E-01	U	<	7.00E-01	U	<	7.00E-01	U
4-Bromophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
4-Nitrophenol	ND	0 / 34	<	7.30E-01	U	<	7.00E-01	U	<	7.00E-01	U
Benzyl Alcohol	ND	0 / 34	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Butylbenzylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Carbazole	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dibenzofuran	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Diethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Dimethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-butylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Di-n-octylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachlorobutadiene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Hexachloroethane	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Isophorone	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Nitrobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
Pentachlorophenol	ND	0 / 34	<	7.30E-01	U	<	7.00E-01	U	<	7.00E-01	U
Phenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.20E-02	9 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	<	1.10E-02	U	2.80E-03	1.10E-02	J	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	<	1.10E-02	U	8.20E-03	1.10E-02	J	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01	18 / 34	<	1.10E-02	U	3.00E-02	1.10E-02		<	1.10E-02	U
Benzo(a)pyrene	1.80E-01	24 / 34	4.70E-03	1.10E-02	J	5.00E-02	1.10E-02		<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-01	21 / 34	<	1.10E-02	U	7.20E-02	1.10E-02		<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	<	1.10E-02	U	6.70E-02	1.10E-02		<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB03-025			CA129-SB04-005			CA129-SB04-009		
DATE COLLECTED			January 25, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	<	1.10E-02	U	2.20E-02	1.10E-02		<	1.10E-02	U
Chrysene	1.50E-01	17 / 34	<	1.10E-02	U	3.20E-02	1.10E-02		<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	1.10E-02	U	1.10E-02	1.10E-02	J	<	1.10E-02	U
Fluoranthene	2.90E-01	24 / 34	3.20E-03	1.10E-02	J	8.50E-02	1.10E-02		<	1.10E-02	U
Fluorene	2.20E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	<	1.10E-02	U	3.30E-02	1.10E-02		<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	<	1.10E-02	U	4.20E-02	1.10E-02		<	1.10E-02	U
Pyrene	2.80E-01	20 / 34	<	1.10E-02	U	6.20E-02	1.10E-02		<	1.10E-02	U
Pesticides/PCBs (mg/kg)											
4,4-DDD	ND	0 / 34	<	4.40E-03	U	<	4.30E-03	U	<	4.20E-03	U
4,4-DDE	7.50E-03	5 / 34	<	4.40E-03	U	<	4.30E-03	U	<	4.20E-03	U
4,4-DDT	3.70E-02	12 / 34	<	4.40E-03	U	2.30E-03	4.30E-03	J	<	4.20E-03	U
Aldrin	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-BHC	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
alpha-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
Aroclor 1016	ND	0 / 34	<	5.50E-02	U	<	5.30E-02	U	<	5.30E-02	U
Aroclor 1221	ND	0 / 34	<	5.50E-02	U	<	5.30E-02	U	<	5.30E-02	U
Aroclor 1232	ND	0 / 34	<	5.50E-02	U	<	5.30E-02	U	<	5.30E-02	U
Aroclor 1242	ND	0 / 34	<	5.50E-02	U	<	5.30E-02	U	<	5.30E-02	U
Aroclor 1248	ND	0 / 34	<	5.50E-02	U	<	5.30E-02	U	<	5.30E-02	U
Aroclor 1254	ND	0 / 34	<	5.50E-02	U	<	5.30E-02	U	<	5.30E-02	U
Aroclor 1260	ND	0 / 34	<	5.50E-02	U	<	5.30E-02	U	<	5.30E-02	U
beta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
delta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
Dieldrin	ND	0 / 34	<	4.40E-03	U	<	4.30E-03	U	<	4.20E-03	U
Endosulfan I	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
Endosulfan II	ND	0 / 34	<	4.40E-03	U	<	4.30E-03	U	<	4.20E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.40E-03	U	<	4.30E-03	U	<	4.20E-03	U
Endrin	ND	0 / 34	<	4.40E-03	U	<	4.30E-03	U	<	4.20E-03	U
Endrin aldehyde	ND	0 / 34	<	4.40E-03	U	<	4.30E-03	U	<	4.20E-03	U
Endrin ketone	ND	0 / 34	<	4.40E-03	U	<	4.30E-03	U	<	4.20E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
gamma-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.10E-03	U
Methoxychlor	ND	0 / 34	<	2.20E-02	U	<	2.10E-02	U	<	2.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.00E+02	11 / 34	<	1.10E+01	U	2.00E+02	1.10E+01		<	1.10E+01	U
Gasoline Range Organics	ND	0 / 34	<	1.20E+00	U	<	1.30E+00	U	<	1.20E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB03-025			CA129-SB04-005			CA129-SB04-009		
DATE COLLECTED			January 25, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	<	2.20E+01	U	1.20E+03	2.10E+01		6.80E+00	2.10E+01	J
METALS (mg/kg)											
Arsenic	4.34E+00	34 / 34	1.74E+00	5.26E-01		4.34E+00	5.16E-01		3.40E+00	5.24E-01	
Barium	7.07E+02	34 / 34	4.95E+02	5.26E-01		1.16E+02	5.16E-01		7.07E+02	5.24E-01	
Cadmium	3.97E-01	34 / 34	2.52E-01	5.26E-01	J	2.90E-01	5.16E-01	J	2.58E-01	5.24E-01	J
Chromium	1.54E+01	34 / 34	1.02E+01	5.26E-01		1.45E+01	5.16E-01		7.06E+00	5.24E-01	
Lead	1.24E+01	34 / 34	4.16E+00	5.26E-01		1.01E+01	5.16E-01		4.57E+00	5.24E-01	
Mercury	1.56E-02	3 / 34	<	1.09E-01	U	1.24E-02	1.06E-01	J	<	1.05E-01	U
Selenium	1.95E-01	15 / 34	<	5.26E-01	U	1.08E-01	5.16E-01	J	6.34E-02	5.24E-01	J
Silver	5.57E-02	3 / 34	<	5.26E-01	U	<	5.16E-01	U	<	5.24E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB04-020			CA129-SB05-005			CA129-SB05-010		
DATE COLLECTED			January 24, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,1-Dichloroethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,1-Dichloroethene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,1-Dichloropropene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,2-Dichloroethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,2-Dichloropropane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,3-Dichloropropane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
2,2-Dichloropropane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
2-Chlorotoluene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
2-Hexanone	ND	0 / 34	<	2.10E-02	U	<	2.30E-02	U	<	2.70E-02	U
4-Chlorotoluene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.10E-02	U	<	2.30E-02	U	<	2.70E-02	U
Acetone	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Benzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Bromobenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Bromochloromethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Bromodichloromethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Bromoform	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Bromomethane	2.70E-03	1 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Carbon Disulfide	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Carbon Tetrachloride	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Chlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Chloroethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Chloroform	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB04-020			CA129-SB05-005			CA129-SB05-010		
DATE COLLECTED			January 24, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Dibromochloromethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Dibromomethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Hexachlorobutadiene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Methylene Chloride	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.30E-02	U
Naphthalene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
n-Butylbenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
n-Propylbenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
sec-Butylbenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Styrene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
t-Butylbenzene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Tetrachloroethene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Toluene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Trichloroethene	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Trichlorofluoromethane	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
Vinyl Chloride	ND	0 / 34	<	5.30E-03	U	<	5.70E-03	U	<	6.70E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	7.10E-01	U	<	7.00E-01	U	<	7.10E-01	U
2,4-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Chloronaphthalene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Chlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB04-020			CA129-SB05-005			CA129-SB05-010		
DATE COLLECTED			January 24, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
2-Nitrophenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
3-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	7.10E-01	U	<	7.00E-01	U	<	7.10E-01	U
4-Bromophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
4-Nitrophenol	ND	0 / 34	<	7.10E-01	U	<	7.00E-01	U	<	7.10E-01	U
Benzyl Alcohol	ND	0 / 34	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Butylbenzylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Carbazole	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Dibenzofuran	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Diethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Dimethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Di-n-butylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Di-n-octylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachlorobutadiene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Hexachloroethane	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Isophorone	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Nitrobenzene	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
Pentachlorophenol	ND	0 / 34	<	7.10E-01	U	<	7.00E-01	U	<	7.10E-01	U
Phenol	ND	0 / 34	<	3.60E-01	U	<	3.50E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.20E-02	9 / 34	<	1.10E-02	U	<	1.10E-02	U	3.10E-03	1.10E-02	J
Acenaphthene	2.50E-02	5 / 34	<	1.10E-02	U	8.10E-03	1.10E-02	J	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	<	1.10E-02	U	2.50E-02	1.10E-02		<	1.10E-02	U
Benzo(a)anthracene	1.50E-01	18 / 34	7.90E-03	1.10E-02	J	1.50E-01	1.10E-02	J	3.70E-03	1.10E-02	J
Benzo(a)pyrene	1.80E-01	24 / 34	1.30E-02	1.10E-02		1.80E-01	1.10E-02	J	8.20E-03	1.10E-02	J
Benzo(b)fluoranthene	2.70E-01	21 / 34	1.70E-02	1.10E-02		2.70E-01	1.10E-02	J	8.40E-03	1.10E-02	J
Benzo(g,h,i)perylene	1.10E-01	20 / 34	1.20E-02	1.10E-02		1.10E-01	1.10E-02		4.50E-03	1.10E-02	J

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB04-020			CA129-SB05-005			CA129-SB05-010		
DATE COLLECTED			January 24, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	4.90E-03	1.10E-02	J	8.00E-02	1.10E-02		2.80E-03	1.10E-02	J
Chrysene	1.50E-01	17 / 34	8.10E-03	1.10E-02	J	1.50E-01	1.10E-02	J	4.20E-03	1.10E-02	J
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	1.10E-02	U	2.70E-02	1.10E-02		<	1.10E-02	U
Fluoranthene	2.90E-01	24 / 34	1.90E-02	1.10E-02		2.90E-01	1.10E-02	J	9.50E-03	1.10E-02	J
Fluorene	2.20E-02	5 / 34	<	1.10E-02	U	6.30E-03	1.10E-02	J	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	9.40E-03	1.10E-02	J	8.90E-02	1.10E-02		6.30E-03	1.10E-02	J
Naphthalene	2.20E-02	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	9.30E-03	1.10E-02	J	1.10E-01	1.10E-02		5.20E-03	1.10E-02	J
Pyrene	2.80E-01	20 / 34	1.70E-02	1.10E-02		2.80E-01	1.10E-02	J	8.50E-03	1.10E-02	J
Pesticides/PCBs (mg/kg)											
4,4-DDD	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
4,4-DDE	7.50E-03	5 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
4,4-DDT	3.70E-02	12 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Aldrin	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-BHC	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.20E-03	U
alpha-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.20E-03	U
Aroclor 1016	ND	0 / 34	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1221	ND	0 / 34	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1232	ND	0 / 34	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1242	ND	0 / 34	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1248	ND	0 / 34	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1254	ND	0 / 34	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
Aroclor 1260	ND	0 / 34	<	5.40E-02	U	<	5.30E-02	U	<	5.40E-02	U
beta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.20E-03	U
delta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.20E-03	U
Dieldrin	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endosulfan I	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.20E-03	U
Endosulfan II	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin aldehyde	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
Endrin ketone	ND	0 / 34	<	4.30E-03	U	<	4.30E-03	U	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.20E-03	U
gamma-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.20E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.20E-03	U	<	2.10E-03	U	<	2.20E-03	U
Methoxychlor	ND	0 / 34	<	2.20E-02	U	<	2.10E-02	U	<	2.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.00E+02	11 / 34	1.30E+01	1.10E+01		5.70E+00	1.10E+01	J	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 34	<	1.20E+00	U	<	1.10E+00	U	<	1.40E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB04-020			CA129-SB05-005			CA129-SB05-010		
DATE COLLECTED			January 24, 2013			January 24, 2013			January 24, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	1.10E+02	2.20E+01		2.20E+01	2.10E+01		7.70E+00	2.20E+01	J
METALS (mg/kg)											
Arsenic	4.34E+00	34 / 34	2.85E+00	5.30E-01		3.93E+00	5.32E-01		3.20E+00	5.23E-01	
Barium	7.07E+02	34 / 34	4.48E+02	5.30E-01		1.23E+02	5.32E-01		2.56E+02	5.23E-01	
Cadmium	3.97E-01	34 / 34	3.26E-01	5.30E-01	J	2.91E-01	5.32E-01	J	2.78E-01	5.23E-01	J
Chromium	1.54E+01	34 / 34	9.76E+00	5.30E-01		1.12E+01	5.32E-01		9.73E+00	5.23E-01	
Lead	1.24E+01	34 / 34	5.76E+00	5.30E-01		1.15E+01	5.32E-01		6.05E+00	5.23E-01	
Mercury	1.56E-02	3 / 34	<	1.08E-01	U	<	1.06E-01	U	<	1.07E-01	U
Selenium	1.95E-01	15 / 34	5.80E-02	5.30E-01	J	1.32E-01	5.32E-01	J	5.78E-02	5.23E-01	J
Silver	5.57E-02	3 / 34	<	5.30E-01	U	<	5.32E-01	U	<	5.23E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB05-015			CA129-SB05-020			CA129-SB06-003		
DATE COLLECTED			January 24, 2013			January 24, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,1-Dichloroethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,1-Dichloroethene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,1-Dichloropropene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	1.00E-02	U	<	1.20E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,2-Dichloroethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,2-Dichloropropane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,3-Dichloropropane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
2,2-Dichloropropane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
2-Chlorotoluene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
2-Hexanone	ND	0 / 34	<	2.10E-02	U	<	2.40E-02	U	<	2.10E-02	U
4-Chlorotoluene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.10E-02	U	<	2.40E-02	U	<	2.10E-02	U
Acetone	ND	0 / 34	<	1.00E-02	U	<	1.20E-02	U	<	1.10E-02	U
Benzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Bromobenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Bromochloromethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Bromodichloromethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Bromoform	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Bromomethane	2.70E-03	1 / 34	<	1.00E-02	U	<	1.20E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Carbon Tetrachloride	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Chlorobenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Chloroethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Chloroform	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB05-015			CA129-SB05-020			CA129-SB06-003		
DATE COLLECTED			January 24, 2013			January 24, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	1.00E-02	U	<	1.20E-02	U	<	1.10E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Dibromochloromethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Dibromomethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	1.00E-02	U	<	1.20E-02	U	<	1.10E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Hexachlorobutadiene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	1.00E-02	U	<	1.20E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	1.00E-02	U	<	1.20E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 34	<	1.00E-02	U	<	1.20E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
n-Butylbenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
n-Propylbenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
sec-Butylbenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Styrene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
t-Butylbenzene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Tetrachloroethene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Toluene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Trichloroethene	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Trichlorofluoromethane	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
Vinyl Chloride	ND	0 / 34	<	5.20E-03	U	<	6.10E-03	U	<	5.30E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	7.00E-01	U	<	7.20E-01	U	<	1.40E+00	U
2,4-Dinitrotoluene	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
2-Chloronaphthalene	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
2-Chlorophenol	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB05-015			CA129-SB05-020			CA129-SB06-003		
DATE COLLECTED			January 24, 2013			January 24, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
2-Nitrophenol	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
3-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	7.00E-01	U	<	7.20E-01	U	<	1.40E+00	U
4-Bromophenyl-phenylether	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
4-Nitroaniline	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
4-Nitrophenol	ND	0 / 34	<	7.00E-01	U	<	7.20E-01	U	<	1.40E+00	U
Benzyl Alcohol	ND	0 / 34	<	1.40E+00	U	<	1.40E+00	U	<	2.70E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Butylbenzylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Carbazole	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Dibenzofuran	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Diethylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Dimethylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Di-n-butylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Di-n-octylphthalate	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Hexachlorobenzene	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Hexachlorobutadiene	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Hexachloroethane	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Isophorone	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Nitrobenzene	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
Pentachlorophenol	ND	0 / 34	<	7.00E-01	U	<	7.20E-01	U	<	1.40E+00	U
Phenol	ND	0 / 34	<	3.50E-01	U	<	3.60E-01	U	<	6.90E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.20E-02	9 / 34	2.70E-03	1.10E-02	J	<	1.10E-02	U	<	2.10E-02	U
Acenaphthene	2.50E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	1.10E-02	2.10E-02	J
Acenaphthylene	7.70E-03	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	2.10E-02	U
Anthracene	2.70E-02	6 / 34	<	1.10E-02	U	<	1.10E-02	U	1.90E-02	2.10E-02	J
Benzo(a)anthracene	1.50E-01	18 / 34	<	1.10E-02	U	3.20E-03	1.10E-02	J	9.40E-02	2.10E-02	
Benzo(a)pyrene	1.80E-01	24 / 34	<	1.10E-02	U	6.00E-03	1.10E-02	J	1.20E-01	2.10E-02	
Benzo(b)fluoranthene	2.70E-01	21 / 34	<	1.10E-02	U	4.90E-03	1.10E-02	J	1.70E-01	2.10E-02	
Benzo(g,h,i)perylene	1.10E-01	20 / 34	<	1.10E-02	U	3.10E-03	1.10E-02	J	7.40E-02	2.10E-02	

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB05-015			CA129-SB05-020			CA129-SB06-003		
DATE COLLECTED			January 24, 2013			January 24, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	<	1.10E-02	U	2.90E-03	1.10E-02	J	5.50E-02	2.10E-02	
Chrysene	1.50E-01	17 / 34	<	1.10E-02	U	3.40E-03	1.10E-02	J	9.80E-02	2.10E-02	
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	1.10E-02	U	5.20E-03	1.10E-02	J	2.00E-02	2.10E-02	J
Fluoranthene	2.90E-01	24 / 34	<	1.10E-02	U	4.20E-03	1.10E-02	J	2.20E-01	2.10E-02	
Fluorene	2.20E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	8.80E-03	2.10E-02	J
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	<	1.10E-02	U	5.40E-03	1.10E-02	J	6.00E-02	2.10E-02	
Naphthalene	2.20E-02	4 / 34	2.90E-03	1.10E-02	J	<	1.10E-02	U	<	2.10E-02	U
Phenanthrene	2.00E-01	17 / 34	<	1.10E-02	U	3.30E-03	1.10E-02	J	1.10E-01	2.10E-02	
Pyrene	2.80E-01	20 / 34	<	1.10E-02	U	4.20E-03	1.10E-02	J	1.90E-01	2.10E-02	
Pesticides/PCBs (mg/kg)											
4,4-DDD	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.20E-03	U
4,4-DDE	7.50E-03	5 / 34	<	4.30E-03	U	<	4.40E-03	U	3.80E-03	4.20E-03	J
4,4-DDT	3.70E-02	12 / 34	<	4.30E-03	U	<	4.40E-03	U	1.40E-02	4.20E-03	
Aldrin	ND	0 / 34	<	2.10E-03	U	<	2.20E-03	U	<	2.10E-03	U
alpha-BHC	ND	0 / 34	<	2.10E-03	U	<	2.20E-03	U	<	2.10E-03	U
alpha-Chlordane	ND	0 / 34	<	2.10E-03	U	<	2.20E-03	U	<	2.10E-03	U
Aroclor 1016	ND	0 / 34	<	5.30E-02	U	<	5.50E-02	U	<	5.30E-02	U
Aroclor 1221	ND	0 / 34	<	5.30E-02	U	<	5.50E-02	U	<	5.30E-02	U
Aroclor 1232	ND	0 / 34	<	5.30E-02	U	<	5.50E-02	U	<	5.30E-02	U
Aroclor 1242	ND	0 / 34	<	5.30E-02	U	<	5.50E-02	U	<	5.30E-02	U
Aroclor 1248	ND	0 / 34	<	5.30E-02	U	<	5.50E-02	U	<	5.30E-02	U
Aroclor 1254	ND	0 / 34	<	5.30E-02	U	<	5.50E-02	U	<	5.30E-02	U
Aroclor 1260	ND	0 / 34	<	5.30E-02	U	<	5.50E-02	U	<	5.30E-02	U
beta-BHC	ND	0 / 34	<	2.10E-03	U	<	2.20E-03	U	<	2.10E-03	U
delta-BHC	ND	0 / 34	<	2.10E-03	U	<	2.20E-03	U	<	2.10E-03	U
Dieldrin	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.20E-03	U
Endosulfan I	ND	0 / 34	<	2.10E-03	U	<	2.20E-03	U	<	2.10E-03	U
Endosulfan II	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.20E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.20E-03	U
Endrin	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.20E-03	U
Endrin aldehyde	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.20E-03	U
Endrin ketone	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.20E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.10E-03	U	<	2.20E-03	U	<	2.10E-03	U
gamma-Chlordane	ND	0 / 34	<	2.10E-03	U	<	2.20E-03	U	<	2.10E-03	U
Heptachlor	ND	0 / 34	<	2.10E-03	U	<	2.20E-03	U	<	2.10E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.10E-03	U	<	2.20E-03	U	<	2.10E-03	U
Methoxychlor	ND	0 / 34	<	2.10E-02	U	<	2.20E-02	U	<	2.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.00E+02	11 / 34	<	1.10E+01	U	<	1.10E+01	U	5.90E+00	1.10E+01	J
Gasoline Range Organics	ND	0 / 34	<	1.00E+00	U	<	1.20E+00	U	<	1.30E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB05-015			CA129-SB05-020			CA129-SB06-003		
DATE COLLECTED			January 24, 2013			January 24, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	<	2.10E+01	U	<	2.20E+01	U	5.40E+01	2.10E+01	
METALS (mg/kg)											
Arsenic	4.34E+00	34 / 34	1.88E+00	5.13E-01		2.16E+00	5.35E-01		4.12E+00	5.01E-01	
Barium	7.07E+02	34 / 34	3.79E+02	5.13E-01		4.62E+02	5.35E-01		2.22E+02	5.01E-01	
Cadmium	3.97E-01	34 / 34	1.64E-01	5.13E-01	J	2.44E-01	5.35E-01	J	2.96E-01	5.01E-01	J
Chromium	1.54E+01	34 / 34	6.62E+00	5.13E-01		8.05E+00	5.35E-01		1.24E+01	5.01E-01	
Lead	1.24E+01	34 / 34	4.52E+00	5.13E-01		6.25E+00	5.35E-01		1.17E+01	5.01E-01	
Mercury	1.56E-02	3 / 34	1.10E-02	1.05E-01	J	<	1.09E-01	U	1.56E-02	1.05E-01	J
Selenium	1.95E-01	15 / 34	<	5.13E-01	U	<	5.35E-01	U	9.23E-02	5.01E-01	J
Silver	5.57E-02	3 / 34	<	5.13E-01	U	<	5.35E-01	U	<	5.01E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB06-010			CA129-SB06-015			CA129-SB06-020		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,1-Dichloroethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,1-Dichloroethene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,1-Dichloropropene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2-Dichloroethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,2-Dichloropropane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,3-Dichloropropane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
2,2-Dichloropropane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
2-Chlorotoluene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
2-Hexanone	ND	0 / 34	<	2.40E-02	U	<	2.20E-02	U	<	2.20E-02	U
4-Chlorotoluene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.40E-02	U	<	2.20E-02	U	<	2.20E-02	U
Acetone	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Bromobenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Bromochloromethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Bromodichloromethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Bromoform	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Bromomethane	2.70E-03	1 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Carbon Tetrachloride	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Chlorobenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Chloroethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Chloroform	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB06-010			CA129-SB06-015			CA129-SB06-020		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Dibromochloromethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Dibromomethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Hexachlorobutadiene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 34	<	1.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
n-Butylbenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
n-Propylbenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
sec-Butylbenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Styrene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
t-Butylbenzene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Tetrachloroethene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Toluene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Trichloroethene	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Trichlorofluoromethane	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
Vinyl Chloride	ND	0 / 34	<	5.90E-03	U	<	5.60E-03	U	<	5.50E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	7.10E-01	U	<	7.30E-01	U	<	7.30E-01	U
2,4-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Chloronaphthalene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Chlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB06-010			CA129-SB06-015			CA129-SB06-020		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Nitrophenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
3-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	7.10E-01	U	<	7.30E-01	U	<	7.30E-01	U
4-Bromophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Nitrophenol	ND	0 / 34	<	7.10E-01	U	<	7.30E-01	U	<	7.30E-01	U
Benzyl Alcohol	ND	0 / 34	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Butylbenzylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Carbazole	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Dibenzofuran	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Diethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Dimethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Di-n-butylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Di-n-octylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Hexachlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Hexachlorobutadiene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Hexachloroethane	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Isophorone	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Nitrobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Pentachlorophenol	ND	0 / 34	<	7.10E-01	U	<	7.30E-01	U	<	7.30E-01	U
Phenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.20E-02	9 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01	18 / 34	3.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01	24 / 34	6.70E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-01	21 / 34	5.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	2.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB06-010			CA129-SB06-015			CA129-SB06-020		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.50E-01	17 / 34	3.10E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01	24 / 34	9.50E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Fluorene	2.20E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	4.60E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	5.80E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Pyrene	2.80E-01	20 / 34	7.90E-03	1.10E-02	J	<	1.10E-02	U	<	1.10E-02	U
Pesticides/PCBs (mg/kg)											
4,4-DDD	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.40E-03	U
4,4-DDE	7.50E-03	5 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.40E-03	U
4,4-DDT	3.70E-02	12 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.40E-03	U
Aldrin	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
alpha-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
alpha-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Aroclor 1016	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1221	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1232	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1242	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1248	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1254	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1260	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.50E-02	U
beta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
delta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Dieldrin	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.40E-03	U
Endosulfan I	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Endosulfan II	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.40E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.40E-03	U
Endrin	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.40E-03	U
Endrin aldehyde	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.40E-03	U
Endrin ketone	ND	0 / 34	<	4.30E-03	U	<	4.40E-03	U	<	4.40E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
gamma-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Heptachlor	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Methoxychlor	ND	0 / 34	<	2.20E-02	U	<	2.20E-02	U	<	2.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.00E+02	11 / 34	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 34	<	1.10E+00	U	<	1.20E+00	U	<	1.10E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB06-010			CA129-SB06-015			CA129-SB06-020		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	1.20E+01	2.20E+01	J	<	2.20E+01	U	<	2.20E+01	U
METALS (mg/kg)											
Arsenic	4.34E+00	34 / 34	3.18E+00	5.33E-01		2.55E+00	5.53E-01		3.19E+00	5.20E-01	
Barium	7.07E+02	34 / 34	4.43E+02	5.33E-01		4.82E+02	5.53E-01		5.30E+02	5.20E-01	
Cadmium	3.97E-01	34 / 34	2.23E-01	5.33E-01	J	2.16E-01	5.53E-01	J	3.97E-01	5.20E-01	J
Chromium	1.54E+01	34 / 34	6.21E+00	5.33E-01		6.22E+00	5.53E-01		1.08E+01	5.20E-01	
Lead	1.24E+01	34 / 34	4.29E+00	5.33E-01		3.71E+00	5.53E-01		6.85E+00	5.20E-01	
Mercury	1.56E-02	3 / 34	<	1.08E-01	U	<	1.09E-01	U	<	1.10E-01	U
Selenium	1.95E-01	15 / 34	6.66E-02	5.33E-01	J	<	5.53E-01	U	7.11E-02	5.20E-01	J
Silver	5.57E-02	3 / 34	<	5.33E-01	U	<	5.53E-01	U	<	5.20E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB07-005			CA129-SB07-010			CA129-SB07-015		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,1-Dichloroethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,1-Dichloroethene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,1-Dichloropropene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,2-Dichloroethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,2-Dichloropropane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,3-Dichloropropane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
2,2-Dichloropropane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
2-Chlorotoluene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
2-Hexanone	ND	0 / 34	<	2.00E-02	U	<	2.20E-02	U	<	2.30E-02	U
4-Chlorotoluene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.00E-02	U	<	2.20E-02	U	<	2.30E-02	U
Acetone	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Benzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Bromobenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Bromochloromethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Bromodichloromethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Bromoform	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Bromomethane	2.70E-03	1 / 34	<	9.90E-03	U	<	1.10E-02	U	2.70E-03	1.20E-02	J
Carbon Disulfide	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Carbon Tetrachloride	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Chlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Chloroethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Chloroform	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB07-005			CA129-SB07-010			CA129-SB07-015		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Dibromochloromethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Dibromomethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Hexachlorobutadiene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Methylene Chloride	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
n-Butylbenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
n-Propylbenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
sec-Butylbenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Styrene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
t-Butylbenzene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Tetrachloroethene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Toluene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Trichloroethene	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Trichlorofluoromethane	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
Vinyl Chloride	ND	0 / 34	<	5.00E-03	U	<	5.60E-03	U	<	5.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	1.40E+00	U	<	7.40E-01	U	<	7.20E-01	U
2,4-Dinitrotoluene	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Chloronaphthalene	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Chlorophenol	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB07-005			CA129-SB07-010			CA129-SB07-015		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Nitrophenol	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
3-Nitroaniline	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	1.40E+00	U	<	7.40E-01	U	<	7.20E-01	U
4-Bromophenyl-phenylether	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Nitroaniline	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Nitrophenol	ND	0 / 34	<	1.40E+00	U	<	7.40E-01	U	<	7.20E-01	U
Benzyl Alcohol	ND	0 / 34	<	2.80E+00	U	<	1.50E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Butylbenzylphthalate	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Carbazole	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Dibenzofuran	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Diethylphthalate	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Dimethylphthalate	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Di-n-butylphthalate	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Di-n-octylphthalate	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Hexachlorobenzene	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Hexachlorobutadiene	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Hexachloroethane	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Isophorone	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Nitrobenzene	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
Pentachlorophenol	ND	0 / 34	<	1.40E+00	U	<	7.40E-01	U	<	7.20E-01	U
Phenol	ND	0 / 34	<	7.20E-01	U	<	3.70E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.20E-02	9 / 34	<	2.20E-02	U	7.70E-03	1.10E-02	J	1.00E-02	1.10E-02	J
Acenaphthene	2.50E-02	5 / 34	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01	18 / 34	2.00E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01	24 / 34	2.70E-02	2.20E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(b)fluoranthene	2.70E-01	21 / 34	3.10E-02	2.20E-02		<	1.10E-02	U	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	1.50E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB07-005			CA129-SB07-010			CA129-SB07-015		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	8.40E-03	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Chrysene	1.50E-01	17 / 34	1.80E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01	24 / 34	4.20E-02	2.20E-02		<	1.10E-02	U	<	1.10E-02	U
Fluorene	2.20E-02	5 / 34	<	2.20E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	1.60E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	<	2.20E-02	U	<	1.10E-02	U	4.10E-03	1.10E-02	J
Phenanthrene	2.00E-01	17 / 34	2.20E-02	2.20E-02	J	<	1.10E-02	U	<	1.10E-02	U
Pyrene	2.80E-01	20 / 34	3.70E-02	2.20E-02		<	1.10E-02	U	<	1.10E-02	U
Pesticides/PCBs (mg/kg)											
4,4-DDD	ND	0 / 34	<	4.40E-03	U	<	4.50E-03	U	<	4.40E-03	U
4,4-DDE	7.50E-03	5 / 34	<	4.40E-03	U	<	4.50E-03	U	<	4.40E-03	U
4,4-DDT	3.70E-02	12 / 34	2.60E-03	4.40E-03	J	<	4.50E-03	U	<	4.40E-03	U
Aldrin	ND	0 / 34	<	2.20E-03	U	<	2.30E-03	U	<	2.20E-03	U
alpha-BHC	ND	0 / 34	<	2.20E-03	U	<	2.30E-03	U	<	2.20E-03	U
alpha-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.30E-03	U	<	2.20E-03	U
Aroclor 1016	ND	0 / 34	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U
Aroclor 1221	ND	0 / 34	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U
Aroclor 1232	ND	0 / 34	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U
Aroclor 1242	ND	0 / 34	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U
Aroclor 1248	ND	0 / 34	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U
Aroclor 1254	ND	0 / 34	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U
Aroclor 1260	ND	0 / 34	<	5.50E-02	U	<	5.60E-02	U	<	5.50E-02	U
beta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.30E-03	U	<	2.20E-03	U
delta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.30E-03	U	<	2.20E-03	U
Dieldrin	ND	0 / 34	<	4.40E-03	U	<	4.50E-03	U	<	4.40E-03	U
Endosulfan I	ND	0 / 34	<	2.20E-03	U	<	2.30E-03	U	<	2.20E-03	U
Endosulfan II	ND	0 / 34	<	4.40E-03	U	<	4.50E-03	U	<	4.40E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.40E-03	U	<	4.50E-03	U	<	4.40E-03	U
Endrin	ND	0 / 34	<	4.40E-03	U	<	4.50E-03	U	<	4.40E-03	U
Endrin aldehyde	ND	0 / 34	<	4.40E-03	U	<	4.50E-03	U	<	4.40E-03	U
Endrin ketone	ND	0 / 34	<	4.40E-03	U	<	4.50E-03	U	<	4.40E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.20E-03	U	<	2.30E-03	U	<	2.20E-03	U
gamma-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.30E-03	U	<	2.20E-03	U
Heptachlor	ND	0 / 34	<	2.20E-03	U	<	2.30E-03	U	<	2.20E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.20E-03	U	<	2.30E-03	U	<	2.20E-03	U
Methoxychlor	ND	0 / 34	<	2.20E-02	U	<	2.30E-02	U	<	2.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.00E+02	11 / 34	9.80E+00	1.10E+01	J	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 34	<	1.10E+00	U	<	1.00E+00	U	<	1.10E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB07-005			CA129-SB07-010			CA129-SB07-015		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	2.50E+01	2.20E+01		<	2.30E+01	U	<	2.20E+01	U
METALS (mg/kg)											
Arsenic	4.34E+00	34 / 34	4.05E+00	5.46E-01		3.09E+00	5.64E-01		2.24E+00	5.26E-01	
Barium	7.07E+02	34 / 34	1.24E+02	5.46E-01		3.91E+02	5.64E-01		5.87E+02	5.26E-01	
Cadmium	3.97E-01	34 / 34	2.62E-01	5.46E-01	J	3.52E-01	5.64E-01	J	2.53E-01	5.26E-01	J
Chromium	1.54E+01	34 / 34	1.24E+01	5.46E-01		6.85E+00	5.64E-01		5.94E+00	5.26E-01	
Lead	1.24E+01	34 / 34	1.24E+01	5.46E-01		5.52E+00	5.64E-01		4.30E+00	5.26E-01	
Mercury	1.56E-02	3 / 34	<	1.09E-01	U	<	1.11E-01	U	<	1.09E-01	U
Selenium	1.95E-01	15 / 34	1.46E-01	5.46E-01	J	<	5.64E-01	U	<	5.26E-01	U
Silver	5.57E-02	3 / 34	<	5.46E-01	U	<	5.64E-01	U	<	5.26E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB07-020			CA129-SB08-004			CA129-SB08-010		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,1-Dichloroethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,1-Dichloroethene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,1-Dichloropropene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,2-Dichloroethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,2-Dichloropropane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,3-Dichloropropane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
2,2-Dichloropropane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
2-Chlorotoluene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
2-Hexanone	ND	0 / 34	<	2.10E-02	U	<	2.20E-02	U	<	2.20E-02	U
4-Chlorotoluene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.10E-02	U	<	2.20E-02	U	<	2.20E-02	U
Acetone	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Bromobenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Bromochloromethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Bromodichloromethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Bromoform	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Bromomethane	2.70E-03	1 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Carbon Disulfide	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Carbon Tetrachloride	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Chlorobenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Chloroethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Chloroform	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB07-020			CA129-SB08-004			CA129-SB08-010		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Dibromochloromethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Dibromomethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Hexachlorobutadiene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Methylene Chloride	ND	0 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Naphthalene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
n-Butylbenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
n-Propylbenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
sec-Butylbenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Styrene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
t-Butylbenzene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Tetrachloroethene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Toluene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Trichloroethene	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Trichlorofluoromethane	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
Vinyl Chloride	ND	0 / 34	<	5.30E-03	U	<	5.40E-03	U	<	5.40E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	7.20E-01	U	<	7.30E-01	U	<	7.30E-01	U
2,4-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Chloronaphthalene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Chlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB07-020			CA129-SB08-004			CA129-SB08-010		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
2-Nitrophenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
3-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	7.20E-01	U	<	7.30E-01	U	<	7.30E-01	U
4-Bromophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
4-Nitrophenol	ND	0 / 34	<	7.20E-01	U	<	7.30E-01	U	<	7.30E-01	U
Benzyl Alcohol	ND	0 / 34	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Butylbenzylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Carbazole	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Dibenzofuran	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Diethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Dimethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Di-n-butylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Di-n-octylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Hexachlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Hexachlorobutadiene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Hexachloroethane	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Isophorone	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Nitrobenzene	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
Pentachlorophenol	ND	0 / 34	<	7.20E-01	U	<	7.30E-01	U	<	7.30E-01	U
Phenol	ND	0 / 34	<	3.60E-01	U	<	3.70E-01	U	<	3.60E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.20E-02	9 / 34	4.90E-03	1.10E-02	J	<	1.10E-02	U	2.80E-03	1.10E-02	J
Acenaphthene	2.50E-02	5 / 34	<	1.10E-02	U	7.50E-03	1.10E-02	J	2.50E-02	1.10E-02	
Acenaphthylene	7.70E-03	4 / 34	<	1.10E-02	U	7.70E-03	1.10E-02	J	5.20E-03	1.10E-02	J
Anthracene	2.70E-02	6 / 34	<	1.10E-02	U	8.10E-03	1.10E-02	J	1.90E-02	1.10E-02	
Benzo(a)anthracene	1.50E-01	18 / 34	<	1.10E-02	U	2.70E-02	1.10E-02		6.30E-02	1.10E-02	
Benzo(a)pyrene	1.80E-01	24 / 34	<	1.10E-02	U	2.90E-02	1.10E-02		7.60E-02	1.10E-02	
Benzo(b)fluoranthene	2.70E-01	21 / 34	<	1.10E-02	U	4.40E-02	1.10E-02		1.20E-01	1.10E-02	
Benzo(g,h,i)perylene	1.10E-01	20 / 34	<	1.10E-02	U	1.40E-02	1.10E-02		4.90E-02	1.10E-02	

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB07-020			CA129-SB08-004			CA129-SB08-010		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	<	1.10E-02	U	1.50E-02	1.10E-02		3.50E-02	1.10E-02	
Chrysene	1.50E-01	17 / 34	<	1.10E-02	U	3.50E-02	1.10E-02		7.60E-02	1.10E-02	
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	1.10E-02	U	7.20E-03	1.10E-02	J	1.20E-02	1.10E-02	
Fluoranthene	2.90E-01	24 / 34	<	1.10E-02	U	1.00E-01	1.10E-02		2.60E-01	1.10E-02	
Fluorene	2.20E-02	5 / 34	<	1.10E-02	U	1.00E-02	1.10E-02	J	2.20E-02	1.10E-02	
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	<	1.10E-02	U	1.50E-02	1.10E-02		4.10E-02	1.10E-02	
Naphthalene	2.20E-02	4 / 34	<	1.10E-02	U	<	1.10E-02	U	3.50E-03	1.10E-02	J
Phenanthrene	2.00E-01	17 / 34	<	1.10E-02	U	1.00E-01	1.10E-02		2.00E-01	1.10E-02	
Pyrene	2.80E-01	20 / 34	<	1.10E-02	U	8.00E-02	1.10E-02		1.90E-01	1.10E-02	
Pesticides/PCBs (mg/kg)											
4,4-DDD	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.40E-03	U
4,4-DDE	7.50E-03	5 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.40E-03	U
4,4-DDT	3.70E-02	12 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.40E-03	U
Aldrin	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
alpha-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
alpha-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Aroclor 1016	ND	0 / 34	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1221	ND	0 / 34	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1232	ND	0 / 34	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1242	ND	0 / 34	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1248	ND	0 / 34	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1254	ND	0 / 34	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U
Aroclor 1260	ND	0 / 34	<	5.50E-02	U	<	5.50E-02	U	<	5.50E-02	U
beta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
delta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Dieldrin	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.40E-03	U
Endosulfan I	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Endosulfan II	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.40E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.40E-03	U
Endrin	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.40E-03	U
Endrin aldehyde	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.40E-03	U
Endrin ketone	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.40E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
gamma-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Heptachlor	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.20E-03	U
Methoxychlor	ND	0 / 34	<	2.20E-02	U	<	2.20E-02	U	<	2.20E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.00E+02	11 / 34	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 34	<	1.10E+00	U	<	1.10E+00	U	<	1.10E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB07-020			CA129-SB08-004			CA129-SB08-010		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	<	2.20E+01	U	9.30E+00	2.20E+01	J	5.70E+00	2.20E+01	J
METALS (mg/kg)											
Arsenic	4.34E+00	34 / 34	2.43E+00	5.47E-01		4.16E+00	5.28E-01		3.16E+00	5.18E-01	
Barium	7.07E+02	34 / 34	2.64E+02	5.47E-01	J	1.16E+02	5.28E-01		3.88E+02	5.18E-01	
Cadmium	3.97E-01	34 / 34	2.60E-01	5.47E-01	J	3.08E-01	5.28E-01	J	2.75E-01	5.18E-01	J
Chromium	1.54E+01	34 / 34	6.37E+00	5.47E-01		1.32E+01	5.28E-01		8.28E+00	5.18E-01	
Lead	1.24E+01	34 / 34	4.76E+00	5.47E-01		8.38E+00	5.28E-01		5.02E+00	5.18E-01	
Mercury	1.56E-02	3 / 34	<	1.09E-01	U	<	1.11E-01	U	<	1.10E-01	U
Selenium	1.95E-01	15 / 34	<	5.47E-01	U	1.09E-01	5.28E-01	J	<	5.18E-01	U
Silver	5.57E-02	3 / 34	<	5.47E-01	U	<	5.28E-01	U	<	5.18E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB08-015			CA129-SB08-020			CA129-SB09-004		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,1-Dichloroethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,1-Dichloroethene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,1-Dichloropropene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,2-Dichloroethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,2-Dichloropropane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,3-Dichloropropane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
2,2-Dichloropropane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
2-Chlorotoluene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
2-Hexanone	ND	0 / 34	<	2.00E-02	U	<	2.30E-02	U	<	2.30E-02	U
4-Chlorotoluene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.00E-02	U	<	2.30E-02	U	<	2.30E-02	U
Acetone	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Benzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Bromobenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Bromochloromethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Bromodichloromethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Bromoform	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Bromomethane	2.70E-03	1 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Carbon Disulfide	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Carbon Tetrachloride	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Chlorobenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Chloroethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Chloroform	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB08-015			CA129-SB08-020			CA129-SB09-004		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Dibromochloromethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Dibromomethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Hexachlorobutadiene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Methylene Chloride	ND	0 / 34	<	9.90E-03	U	<	1.10E-02	U	<	1.20E-02	U
Naphthalene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
n-Butylbenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
n-Propylbenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
sec-Butylbenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Styrene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
t-Butylbenzene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Tetrachloroethene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Toluene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Trichloroethene	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Trichlorofluoromethane	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
Vinyl Chloride	ND	0 / 34	<	5.00E-03	U	<	5.70E-03	U	<	5.80E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)											
1,2,4-Trichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	7.20E-01	U	<	7.30E-01	U	<	7.10E-01	U
2,4-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
2-Chloronaphthalene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
2-Chlorophenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB08-015			CA129-SB08-020			CA129-SB09-004		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
2-Nitrophenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
3-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	7.20E-01	U	<	7.30E-01	U	<	7.10E-01	U
4-Bromophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
4-Nitroaniline	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
4-Nitrophenol	ND	0 / 34	<	7.20E-01	U	<	7.30E-01	U	<	7.10E-01	U
Benzyl Alcohol	ND	0 / 34	<	1.40E+00	U	<	1.40E+00	U	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Butylbenzylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Carbazole	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Dibenzofuran	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Diethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Dimethylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Di-n-butylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Di-n-octylphthalate	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Hexachlorobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Hexachlorobutadiene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Hexachloroethane	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Isophorone	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Nitrobenzene	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
Pentachlorophenol	ND	0 / 34	<	7.20E-01	U	<	7.30E-01	U	<	7.10E-01	U
Phenol	ND	0 / 34	<	3.60E-01	U	<	3.60E-01	U	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)											
2-Methylnaphthalene	1.20E-02	9 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01	18 / 34	6.40E-03	1.10E-02	J	<	1.10E-02	U	8.50E-03	1.10E-02	J
Benzo(a)pyrene	1.80E-01	24 / 34	9.50E-03	1.10E-02	J	4.50E-03	1.10E-02	J	1.20E-02	1.10E-02	
Benzo(b)fluoranthene	2.70E-01	21 / 34	1.10E-02	1.10E-02		<	1.10E-02	U	1.50E-02	1.10E-02	
Benzo(g,h,i)perylene	1.10E-01	20 / 34	4.50E-03	1.10E-02	J	<	1.10E-02	U	7.10E-03	1.10E-02	J

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB08-015			CA129-SB08-020			CA129-SB09-004		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	2.90E-03	1.10E-02	J	<	1.10E-02	U	4.40E-03	1.10E-02	J
Chrysene	1.50E-01	17 / 34	5.60E-03	1.10E-02	J	<	1.10E-02	U	7.10E-03	1.10E-02	J
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Fluoranthene	2.90E-01	24 / 34	1.50E-02	1.10E-02		3.10E-03	1.10E-02	J	1.80E-02	1.10E-02	
Fluorene	2.20E-02	5 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	6.30E-03	1.10E-02	J	<	1.10E-02	U	8.10E-03	1.10E-02	J
Naphthalene	2.20E-02	4 / 34	<	1.10E-02	U	<	1.10E-02	U	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	8.10E-03	1.10E-02	J	<	1.10E-02	U	8.40E-03	1.10E-02	J
Pyrene	2.80E-01	20 / 34	1.30E-02	1.10E-02		<	1.10E-02	U	1.60E-02	1.10E-02	
Pesticides/PCBs (mg/kg)											
4,4-DDD	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.30E-03	U
4,4-DDE	7.50E-03	5 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.30E-03	U
4,4-DDT	3.70E-02	12 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.30E-03	U
Aldrin	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
alpha-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
alpha-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Aroclor 1016	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.40E-02	U
Aroclor 1221	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.40E-02	U
Aroclor 1232	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.40E-02	U
Aroclor 1242	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.40E-02	U
Aroclor 1248	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.40E-02	U
Aroclor 1254	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.40E-02	U
Aroclor 1260	ND	0 / 34	<	5.40E-02	U	<	5.50E-02	U	<	5.40E-02	U
beta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
delta-BHC	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Dieldrin	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.30E-03	U
Endosulfan I	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Endosulfan II	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.30E-03	U
Endrin	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.30E-03	U
Endrin aldehyde	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.30E-03	U
Endrin ketone	ND	0 / 34	<	4.40E-03	U	<	4.40E-03	U	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
gamma-Chlordane	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Heptachlor	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.20E-03	U	<	2.20E-03	U	<	2.10E-03	U
Methoxychlor	ND	0 / 34	<	2.20E-02	U	<	2.20E-02	U	<	2.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)											
Diesel Range Organics	2.00E+02	11 / 34	<	1.10E+01	U	<	1.10E+01	U	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 34	<	9.80E-01	U	<	1.10E+00	U	<	1.20E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB08-015			CA129-SB08-020			CA129-SB09-004		
DATE COLLECTED			January 25, 2013			January 25, 2013			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual	Result	LOQ	Qual	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	<	2.20E+01	U	<	2.20E+01	U	1.50E+01	2.10E+01	J
METALS (mg/kg)											
Arsenic	4.34E+00	34 / 34	2.07E+00	5.18E-01		2.17E+00	5.45E-01		4.32E+00	5.06E-01	
Barium	7.07E+02	34 / 34	1.37E+02	5.18E-01		3.37E+02	5.45E-01	J	1.23E+02	5.06E-01	
Cadmium	3.97E-01	34 / 34	2.45E-01	5.18E-01	J	2.89E-01	5.45E-01	J	3.05E-01	5.06E-01	J
Chromium	1.54E+01	34 / 34	7.44E+00	5.18E-01		7.69E+00	5.45E-01		1.54E+01	5.06E-01	
Lead	1.24E+01	34 / 34	4.81E+00	5.18E-01		5.79E+00	5.45E-01		1.05E+01	5.06E-01	
Mercury	1.56E-02	3 / 34	<	1.08E-01	U	<	1.08E-01	U	<	1.07E-01	U
Selenium	1.95E-01	15 / 34	<	5.18E-01	U	<	5.45E-01	U	1.40E-01	5.06E-01	J
Silver	5.57E-02	3 / 34	<	5.18E-01	U	<	5.45E-01	U	<	5.06E-01	U

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB10-003		
DATE COLLECTED			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual
VOLATILE ORGANIC COMPOUNDS (mg/kg)					
1,1,1,2-Tetrachloroethane	ND	0 / 34	<	5.70E-03	U
1,1,1-Trichloroethane	ND	0 / 34	<	5.70E-03	U
1,1,2,2-Tetrachloroethane	ND	0 / 34	<	5.70E-03	U
1,1,2-Trichloroethane	ND	0 / 34	<	5.70E-03	U
1,1-Dichloroethane	ND	0 / 34	<	5.70E-03	U
1,1-Dichloroethene	ND	0 / 34	<	5.70E-03	U
1,1-Dichloropropene	ND	0 / 34	<	5.70E-03	U
1,2,3-Trichlorobenzene	ND	0 / 34	<	5.70E-03	U
1,2,3-Trichloropropane	ND	0 / 34	<	5.70E-03	U
1,2,4-Trichlorobenzene	ND	0 / 34	<	5.70E-03	U
1,2,4-Trimethylbenzene	ND	0 / 34	<	5.70E-03	U
1,2-Dibromo-3-Chloropropane	ND	0 / 34	<	1.10E-02	U
1,2-Dibromoethane (Ethylene Dibromide)	ND	0 / 34	<	5.70E-03	U
1,2-Dichlorobenzene	ND	0 / 34	<	5.70E-03	U
1,2-Dichloroethane	ND	0 / 34	<	5.70E-03	U
1,2-Dichloroethene (cis)	ND	0 / 34	<	5.70E-03	U
1,2-Dichloroethene (trans)	ND	0 / 34	<	5.70E-03	U
1,2-Dichloropropane	ND	0 / 34	<	5.70E-03	U
1,3,5-Trimethylbenzene (Mesitylene)	ND	0 / 34	<	5.70E-03	U
1,3-Dichlorobenzene	ND	0 / 34	<	5.70E-03	U
1,3-Dichloropropane	ND	0 / 34	<	5.70E-03	U
1,4-Dichlorobenzene	ND	0 / 34	<	5.70E-03	U
2,2-Dichloropropane	ND	0 / 34	<	5.70E-03	U
2-Chlorotoluene	ND	0 / 34	<	5.70E-03	U
2-Hexanone	ND	0 / 34	<	2.30E-02	U
4-Chlorotoluene	ND	0 / 34	<	5.70E-03	U
4-Methyl-2-Pentanone	ND	0 / 34	<	2.30E-02	U
Acetone	ND	0 / 34	<	1.10E-02	U
Benzene	ND	0 / 34	<	5.70E-03	U
Bromobenzene	ND	0 / 34	<	5.70E-03	U
Bromochloromethane	ND	0 / 34	<	5.70E-03	U
Bromodichloromethane	ND	0 / 34	<	5.70E-03	U
Bromoform	ND	0 / 34	<	5.70E-03	U
Bromomethane	2.70E-03	1 / 34	<	1.10E-02	U
Carbon Disulfide	ND	0 / 34	<	5.70E-03	U
Carbon Tetrachloride	ND	0 / 34	<	5.70E-03	U
Chlorobenzene	ND	0 / 34	<	5.70E-03	U
Chloroethane	ND	0 / 34	<	5.70E-03	U
Chloroform	ND	0 / 34	<	5.70E-03	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB10-003		
DATE COLLECTED			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual
Chloromethane	ND	0 / 34	<	1.10E-02	U
cis-1,3-Dichloropropene	ND	0 / 34	<	5.70E-03	U
Dibromochloromethane	ND	0 / 34	<	5.70E-03	U
Dibromomethane	ND	0 / 34	<	5.70E-03	U
Dichlorodifluoromethane	ND	0 / 34	<	1.10E-02	U
Ethylbenzene	2.20E-03	1 / 34	<	5.70E-03	U
Hexachlorobutadiene	ND	0 / 34	<	5.70E-03	U
Isopropylbenzene (Cumene)	ND	0 / 34	<	5.70E-03	U
m,p-Xylene (sum of isomers)	ND	0 / 34	<	1.10E-02	U
Methyl Ethyl Ketone (2-Butanone)	ND	0 / 34	<	1.10E-02	U
Methylene Chloride	ND	0 / 34	<	1.10E-02	U
Naphthalene	ND	0 / 34	<	5.70E-03	U
n-Butylbenzene	ND	0 / 34	<	5.70E-03	U
n-Propylbenzene	ND	0 / 34	<	5.70E-03	U
o-Xylene (1,2-Dimethylbenzene)	ND	0 / 34	<	5.70E-03	U
p-Cymene (p-Isopropyltoluene)	ND	0 / 34	<	5.70E-03	U
sec-Butylbenzene	ND	0 / 34	<	5.70E-03	U
Styrene	ND	0 / 34	<	5.70E-03	U
t-Butylbenzene	ND	0 / 34	<	5.70E-03	U
Tetrachloroethene	ND	0 / 34	<	5.70E-03	U
Toluene	ND	0 / 34	<	5.70E-03	U
trans-1,3-Dichloropropene	ND	0 / 34	<	5.70E-03	U
Trichloroethene	ND	0 / 34	<	5.70E-03	U
Trichlorofluoromethane	ND	0 / 34	<	5.70E-03	U
Vinyl Chloride	ND	0 / 34	<	5.70E-03	U
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)					
1,2,4-Trichlorobenzene	ND	0 / 34	<	3.50E-01	U
1,2-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U
1,3-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U
1,4-Dichlorobenzene	ND	0 / 34	<	3.50E-01	U
2,4,5-Trichlorophenol	ND	0 / 34	<	3.50E-01	U
2,4,6-Trichlorophenol	ND	0 / 34	<	3.50E-01	U
2,4-Dichlorophenol	ND	0 / 34	<	3.50E-01	U
2,4-Dimethylphenol	ND	0 / 34	<	3.50E-01	U
2,4-Dinitrophenol	ND	0 / 34	<	7.00E-01	U
2,4-Dinitrotoluene	ND	0 / 34	<	3.50E-01	U
2,6-Dinitrotoluene	ND	0 / 34	<	3.50E-01	U
2-Chloronaphthalene	ND	0 / 34	<	3.50E-01	U
2-Chlorophenol	ND	0 / 34	<	3.50E-01	U
2-Methylphenol (o-cresol)	ND	0 / 34	<	3.50E-01	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB10-003		
DATE COLLECTED			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual
2-Nitroaniline	ND	0 / 34	<	3.50E-01	U
2-Nitrophenol	ND	0 / 34	<	3.50E-01	U
3-Nitroaniline	ND	0 / 34	<	3.50E-01	U
4,6-Dinitro-2-methylphenol	ND	0 / 34	<	7.00E-01	U
4-Bromophenyl-phenylether	ND	0 / 34	<	3.50E-01	U
4-Chloro-3-methylphenol	ND	0 / 34	<	3.50E-01	U
4-Chlorophenyl-phenylether	ND	0 / 34	<	3.50E-01	U
4-Methylphenol (p-cresol)	ND	0 / 34	<	3.50E-01	U
4-Nitroaniline	ND	0 / 34	<	3.50E-01	U
4-Nitrophenol	ND	0 / 34	<	7.00E-01	U
Benzyl Alcohol	ND	0 / 34	<	1.40E+00	U
bis(2-Chloroethoxy)methane	ND	0 / 34	<	3.50E-01	U
bis(2-Chloroethyl)ether	ND	0 / 34	<	3.50E-01	U
bis(2-Ethylhexyl)phthalate	ND	0 / 34	<	3.50E-01	U
Butylbenzylphthalate	ND	0 / 34	<	3.50E-01	U
Carbazole	ND	0 / 34	<	3.50E-01	U
Dibenzofuran	ND	0 / 34	<	3.50E-01	U
Diethylphthalate	ND	0 / 34	<	3.50E-01	U
Dimethylphthalate	ND	0 / 34	<	3.50E-01	U
Di-n-butylphthalate	ND	0 / 34	<	3.50E-01	U
Di-n-octylphthalate	ND	0 / 34	<	3.50E-01	U
Hexachlorobenzene	ND	0 / 34	<	3.50E-01	U
Hexachlorobutadiene	ND	0 / 34	<	3.50E-01	U
Hexachloroethane	ND	0 / 34	<	3.50E-01	U
Isophorone	ND	0 / 34	<	3.50E-01	U
Nitrobenzene	ND	0 / 34	<	3.50E-01	U
N-Nitrosodimethylamine	ND	0 / 34	<	3.50E-01	U
N-Nitroso-di-n-propylamine	ND	0 / 34	<	3.50E-01	U
N-Nitrosodiphenylamine	ND	0 / 34	<	3.50E-01	U
Pentachlorophenol	ND	0 / 34	<	7.00E-01	U
Phenol	ND	0 / 34	<	3.50E-01	U
POLYNUCLEAR AROMATIC HYDROCARBONS (mg/kg)					
2-Methylnaphthalene	1.20E-02	9 / 34	<	1.10E-02	U
Acenaphthene	2.50E-02	5 / 34	<	1.10E-02	U
Acenaphthylene	7.70E-03	4 / 34	<	1.10E-02	U
Anthracene	2.70E-02	6 / 34	<	1.10E-02	U
Benzo(a)anthracene	1.50E-01	18 / 34	<	1.10E-02	U
Benzo(a)pyrene	1.80E-01	24 / 34	4.60E-03	1.10E-02	J
Benzo(b)fluoranthene	2.70E-01	21 / 34	<	1.10E-02	U
Benzo(g,h,i)perylene	1.10E-01	20 / 34	<	1.10E-02	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB10-003		
DATE COLLECTED			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual
Benzo(k)fluoranthene	8.00E-02	13 / 34	<	1.10E-02	U
Chrysene	1.50E-01	17 / 34	<	1.10E-02	U
Dibenz(a,h)anthracene	2.70E-02	7 / 34	<	1.10E-02	U
Fluoranthene	2.90E-01	24 / 34	3.60E-03	1.10E-02	J
Fluorene	2.20E-02	5 / 34	<	1.10E-02	U
Indeno(1,2,3-cd)pyrene	8.90E-02	19 / 34	<	1.10E-02	U
Naphthalene	2.20E-02	4 / 34	<	1.10E-02	U
Phenanthrene	2.00E-01	17 / 34	<	1.10E-02	U
Pyrene	2.80E-01	20 / 34	<	1.10E-02	U
Pesticides/PCBs (mg/kg)					
4,4-DDD	ND	0 / 34	<	4.30E-03	U
4,4-DDE	7.50E-03	5 / 34	2.60E-03	4.30E-03	J
4,4-DDT	3.70E-02	12 / 34	7.50E-03	4.30E-03	
Aldrin	ND	0 / 34	<	2.10E-03	U
alpha-BHC	ND	0 / 34	<	2.10E-03	U
alpha-Chlordane	ND	0 / 34	<	2.10E-03	U
Aroclor 1016	ND	0 / 34	<	5.30E-02	U
Aroclor 1221	ND	0 / 34	<	5.30E-02	U
Aroclor 1232	ND	0 / 34	<	5.30E-02	U
Aroclor 1242	ND	0 / 34	<	5.30E-02	U
Aroclor 1248	ND	0 / 34	<	5.30E-02	U
Aroclor 1254	ND	0 / 34	<	5.30E-02	U
Aroclor 1260	ND	0 / 34	<	5.30E-02	U
beta-BHC	ND	0 / 34	<	2.10E-03	U
delta-BHC	ND	0 / 34	<	2.10E-03	U
Dieldrin	ND	0 / 34	<	4.30E-03	U
Endosulfan I	ND	0 / 34	<	2.10E-03	U
Endosulfan II	ND	0 / 34	<	4.30E-03	U
Endosulfan sulfate	ND	0 / 34	<	4.30E-03	U
Endrin	ND	0 / 34	<	4.30E-03	U
Endrin aldehyde	ND	0 / 34	<	4.30E-03	U
Endrin ketone	ND	0 / 34	<	4.30E-03	U
gamma-BHC (Lindane)	ND	0 / 34	<	2.10E-03	U
gamma-Chlordane	ND	0 / 34	<	2.10E-03	U
Heptachlor	ND	0 / 34	<	2.10E-03	U
Heptachlor epoxide	ND	0 / 34	<	2.10E-03	U
Methoxychlor	ND	0 / 34	<	2.10E-02	U
PETROLEUM HYDROCARBONS (mg/kg)					
Diesel Range Organics	2.00E+02	11 / 34	<	1.10E+01	U
Gasoline Range Organics	ND	0 / 34	<	1.20E+00	U

TABLE D-1
SUMMARY OF ANALYTICAL RESULTS
WASTE OIL STORAGE FACILITY 244 LEACH (TA/AS-C129)

FIELD ID			CA129-SB10-003		
DATE COLLECTED			January 25, 2013		
	Maximum	Frequency	Result	LOQ	Qual
Oil Range Organics	1.20E+03	22 / 34	1.40E+01	2.10E+01	J
METALS (mg/kg)					
Arsenic	4.34E+00	34 / 34	4.17E+00	5.27E-01	
Barium	7.07E+02	34 / 34	9.91E+01	5.27E-01	
Cadmium	3.97E-01	34 / 34	2.87E-01	5.27E-01	J
Chromium	1.54E+01	34 / 34	1.53E+01	5.27E-01	
Lead	1.24E+01	34 / 34	8.81E+00	5.27E-01	
Mercury	1.56E-02	3 / 34	<	1.06E-01	U
Selenium	1.95E-01	15 / 34	1.95E-01	5.27E-01	J
Silver	5.57E-02	3 / 34	5.57E-02	5.27E-01	J

Notes:
J = estimated
LOQ = limit of quantitation
mg/kg = milligrams per kilogram
ND = not detected
Qual = qualifier
U = nondetect
UJ = estimated nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB03-005							CA129-SB04-009							CA129-SB05-005						
FIELD ID	CA129-SB03-005			CA129-SB503-005				CA129-SB04-009			CA129-SB504-009				CA129-SB05-005			CA129-SB505-005			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 24, 2013			January 24, 2013				January 24, 2013			January 24, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,1,1-Trichloroethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,1,2,2-Tetrachloroethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,1,2-Trichloroethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,1-Dichloroethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,1-Dichloroethene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,1-Dichloropropene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,2,3-Trichlorobenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,2,3-Trichloropropane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,2,4-Trichlorobenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,2,4-Trimethylbenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,2-Dibromo-3-Chloropropane	<	1.40E+01	U	<	1.20E+01	U		<	1.20E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
1,2-Dibromoethane (Ethylene Dibromide)	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,2-Dichlorobenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,2-Dichloroethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,2-Dichloroethene (cis)	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,2-Dichloroethene (trans)	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,2-Dichloropropane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,3,5-Trimethylbenzene (Mesitylene)	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,3-Dichlorobenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,3-Dichloropropane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
1,4-Dichlorobenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
2,2-Dichloropropane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
2-Chlorotoluene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
2-Hexanone	<	2.70E+01	U	<	2.40E+01	U		<	2.30E+01	U	<	2.30E+01	U		<	2.30E+01	U	<	2.30E+01	U	
4-Chlorotoluene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
4-Methyl-2-Pentanone	<	2.70E+01	U	<	2.40E+01	U		<	2.30E+01	U	<	2.30E+01	U		<	2.30E+01	U	<	2.30E+01	U	
Acetone	<	1.40E+01	U	<	1.20E+01	U		<	1.20E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Bromobenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Bromochloromethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Bromodichloromethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Bromoform	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Bromomethane	<	1.40E+01	U	<	1.20E+01	U		<	1.20E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Carbon Disulfide	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Carbon Tetrachloride	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Chlorobenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB03-005							CA129-SB04-009							CA129-SB05-005						
FIELD ID	CA129-SB03-005			CA129-SB503-005				CA129-SB04-009			CA129-SB504-009				CA129-SB05-005			CA129-SB505-005			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 24, 2013			January 24, 2013				January 24, 2013			January 24, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Chloroform	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Chloromethane	<	1.40E+01	U	<	1.20E+01	U		<	1.20E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
cis-1,3-Dichloropropene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Dibromochloromethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Dibromomethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Dichlorodifluoromethane	<	1.40E+01	U	<	1.20E+01	U		<	1.20E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Ethylbenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Hexachlorobutadiene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Isopropylbenzene (Cumene)	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
m,p-Xylene (sum of isomers)	<	1.40E+01	U	<	1.20E+01	U		<	1.20E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Methyl Ethyl Ketone (2-Butanone)	<	1.40E+01	U	<	1.20E+01	U		<	1.20E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Methylene Chloride	<	1.40E+01	U	<	1.20E+01	U		<	1.20E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Naphthalene	<	6.80E+00	U	<	6.00E+00	UJ		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
n-Butylbenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
n-Propylbenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
o-Xylene (1,2-Dimethylbenzene)	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
p-Cymene (p-Isopropyltoluene)	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
sec-Butylbenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Styrene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
t-Butylbenzene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Tetrachloroethene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Toluene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
trans-1,3-Dichloropropene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Trichloroethene	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Trichlorofluoromethane	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Vinyl Chloride	<	6.80E+00	U	<	6.00E+00	U		<	5.80E+00	U	<	5.70E+00	U		<	5.70E+00	U	<	5.70E+00	U	
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
1,2-Dichlorobenzene	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
1,3-Dichlorobenzene	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
1,4-Dichlorobenzene	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
2,4,5-Trichlorophenol	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
2,4,6-Trichlorophenol	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
2,4-Dichlorophenol	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
2,4-Dimethylphenol	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
2,4-Dinitrophenol	<	1.40E+03	U	<	6.90E+02	U		<	7.00E+02	U	<	7.00E+02	U		<	7.00E+02	U	<	7.10E+02	U	
2,4-Dinitrotoluene	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB03-005							CA129-SB04-009							CA129-SB05-005						
FIELD ID	CA129-SB03-005			CA129-SB503-005				CA129-SB04-009			CA129-SB504-009				CA129-SB05-005			CA129-SB505-005			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 24, 2013			January 24, 2013				January 24, 2013			January 24, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
2-Chloronaphthalene	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
2-Chlorophenol	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
2-Methylphenol (o-cresol)	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
2-Nitroaniline	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
2-Nitrophenol	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
3-Nitroaniline	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
4,6-Dinitro-2-methylphenol	<	1.40E+03	U	<	6.90E+02	U		<	7.00E+02	U	<	7.00E+02	U		<	7.00E+02	U	<	7.10E+02	U	
4-Bromophenyl-phenylether	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
4-Chloro-3-methylphenol	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
4-Chlorophenyl-phenylether	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
4-Methylphenol (p-cresol)	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
4-Nitroaniline	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
4-Nitrophenol	<	1.40E+03	U	<	6.90E+02	U		<	7.00E+02	U	<	7.00E+02	U		<	7.00E+02	U	<	7.10E+02	U	
Benzyl Alcohol	<	2.70E+03	U	<	1.40E+03	U		<	1.40E+03	U	<	1.40E+03	U		<	1.40E+03	U	<	1.40E+03	U	
bis(2-Chloroethoxy)methane	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
bis(2-Chloroethyl)ether	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
bis(2-Ethylhexyl)phthalate	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Butylbenzylphthalate	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Carbazole	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Dibenzofuran	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Diethylphthalate	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Dimethylphthalate	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Di-n-butylphthalate	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Di-n-octylphthalate	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Hexachlorobenzene	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Hexachlorobutadiene	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Hexachloroethane	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Isophorone	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Nitrobenzene	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
N-Nitrosodimethylamine	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
N-Nitroso-di-n-propylamine	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
N-Nitrosodiphenylamine	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
Pentachlorophenol	<	1.40E+03	U	<	6.90E+02	U		<	7.00E+02	U	<	7.00E+02	U		<	7.00E+02	U	<	7.10E+02	U	
Phenol	<	7.00E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U		<	3.50E+02	U	<	3.50E+02	U	
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	1.20E+01	2.10E+01	J	2.80E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene	1.60E+01	2.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		8.10E+00	1.10E+01	J	8.40E+00	1.10E+01	J	<2X

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB03-005							CA129-SB04-009							CA129-SB05-005						
FIELD ID	CA129-SB03-005			CA129-SB503-005				CA129-SB04-009			CA129-SB504-009				CA129-SB05-005			CA129-SB505-005			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 24, 2013			January 24, 2013				January 24, 2013			January 24, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene	6.80E+00	2.10E+01	J	3.50E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Anthracene	2.70E+01	2.10E+01		1.40E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U		2.50E+01	1.10E+01		1.60E+01	1.10E+01		<2X
Benzo(a)anthracene	9.60E+01	2.10E+01		8.70E+01	1.10E+01		10	<	1.10E+01	U	<	1.10E+01	U		1.50E+02	1.10E+01	J	6.30E+01	1.10E+01	J	82
Benzo(a)pyrene	1.10E+02	2.10E+01		1.10E+02	1.10E+01		0	<	1.10E+01	U	<	1.10E+01	U		1.80E+02	1.10E+01	J	8.10E+01	1.10E+01	J	76
Benzo(b)fluoranthene	1.70E+02	2.10E+01		1.80E+02	1.10E+01		6	<	1.10E+01	U	<	1.10E+01	U		2.70E+02	1.10E+01	J	1.30E+02	1.10E+01	J	70
Benzo(g,h,i)perylene	7.30E+01	2.10E+01		7.20E+01	1.10E+01		1	<	1.10E+01	U	<	1.10E+01	U		1.10E+02	1.10E+01		7.50E+01	1.10E+01		38
Benzo(k)fluoranthene	4.40E+01	2.10E+01		4.50E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U		8.00E+01	1.10E+01	J	3.40E+01	1.10E+01	J	81
Chrysene	1.00E+02	2.10E+01		1.00E+02	1.10E+01		0	<	1.10E+01	U	<	1.10E+01	U		1.50E+02	1.10E+01	J	6.80E+01	1.10E+01	J	75
Dibenz(a,h)anthracene	1.90E+01	2.10E+01	J	1.60E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U		2.70E+01	1.10E+01		1.70E+01	1.10E+01		<2X
Fluoranthene	2.60E+02	2.10E+01		2.00E+02	1.10E+01		26	<	1.10E+01	U	<	1.10E+01	U		2.90E+02	1.10E+01	J	1.60E+02	1.10E+01	J	58
Fluorene	1.90E+01	2.10E+01	J	5.70E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U		6.30E+00	1.10E+01	J	7.10E+00	1.10E+01	J	<2X
Indeno(1,2,3-cd)pyrene	5.50E+01	2.10E+01		5.50E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U		8.90E+01	1.10E+01		6.00E+01	1.10E+01		39
Naphthalene	2.20E+01	2.10E+01		<	1.10E+01	UJ	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Phenanthrene	1.80E+02	2.10E+01	J	8.30E+01	1.10E+01	J	74	<	1.10E+01	U	<	1.10E+01	U		1.10E+02	1.10E+01		8.60E+01	1.10E+01		24
Pyrene	2.20E+02	2.10E+01		1.80E+02	1.10E+01		20	<	1.10E+01	U	<	1.10E+01	U		2.80E+02	1.10E+01	J	1.40E+02	1.10E+01	J	67
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD	<	4.20E+00	U	3.90E+00	4.20E+00	J		<	4.20E+00	U	<	4.20E+00	U		<	4.30E+00	U	<	4.30E+00	U	
4,4-DDE	<	4.20E+00	U	<	4.20E+00	U		<	4.20E+00	U	<	4.20E+00	U		<	4.30E+00	U	2.40E+00	4.30E+00	J	
4,4-DDT	6.70E+00	4.20E+00		9.80E+00	4.20E+00		<2X	<	4.20E+00	U	<	4.20E+00	U		<	4.30E+00	U	3.00E+00	4.30E+00	J	
Aldrin	<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U	
alpha-BHC	<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U	
alpha-Chlordane	<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U	
beta-BHC	<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U	
delta-BHC	<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U	
Dieldrin	<	4.20E+00	U	<	4.20E+00	U		<	4.20E+00	U	<	4.20E+00	U		<	4.30E+00	U	<	4.30E+00	U	
Endosulfan I	<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U	
Endosulfan II	<	4.20E+00	U	<	4.20E+00	U		<	4.20E+00	U	<	4.20E+00	U		<	4.30E+00	U	<	4.30E+00	U	
Endosulfan sulfate	<	4.20E+00	U	<	4.20E+00	U		<	4.20E+00	U	<	4.20E+00	U		<	4.30E+00	U	<	4.30E+00	U	
Endrin	<	4.20E+00	U	<	4.20E+00	U		<	4.20E+00	U	<	4.20E+00	U		<	4.30E+00	U	<	4.30E+00	U	
Endrin aldehyde	<	4.20E+00	U	<	4.20E+00	U		<	4.20E+00	U	<	4.20E+00	U		<	4.30E+00	U	<	4.30E+00	U	
Endrin ketone	<	4.20E+00	U	<	4.20E+00	U		<	4.20E+00	U	<	4.20E+00	U		<	4.30E+00	U	<	4.30E+00	U	
gamma-BHC (Lindane)	<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U	
gamma-Chlordane	<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U	
Heptachlor	<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U	
Heptachlor epoxide	<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U		<	2.10E+00	U	<	2.10E+00	U	
Methoxychlor	<	2.10E+01	U	<	2.10E+01	U		<	2.10E+01	U	<	2.10E+01	U		<	2.10E+01	U	<	2.10E+01	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB03-005							CA129-SB04-009							CA129-SB05-005						
FIELD ID	CA129-SB03-005			CA129-SB503-005				CA129-SB04-009			CA129-SB504-009				CA129-SB05-005			CA129-SB505-005			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 24, 2013			January 24, 2013				January 24, 2013			January 24, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	2.30E+01	1.10E+01		2.50E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U		5.70E+00	1.10E+01	J	5.70E+00	1.10E+01	J	<2X
Gasoline Range Organics	<	1.20E+00	U	<	1.30E+00	U		<	1.20E+00	U	<	1.10E+00	U		<	1.10E+00	U	<	1.10E+00	U	
Oil Range Organics	1.90E+02	2.10E+01		1.90E+02	2.10E+01		0	6.80E+00	2.10E+01	J	6.20E+00	2.10E+01	J	<2X	2.20E+01	2.10E+01		2.20E+01	2.10E+01		<2X
METALS (mg/kg)																					
Arsenic	4.02E+00	4.97E-01		3.85E+00	5.21E-01		4	3.40E+00	5.24E-01		3.55E+00	5.14E-01		4	3.93E+00	5.32E-01		4.35E+00	5.14E-01		10
Barium	1.37E+02	4.97E-01	J	2.40E+02	5.21E-01	J	55	7.07E+02	5.24E-01		6.20E+02	5.14E-01		13	1.23E+02	5.32E-01		1.53E+02	5.14E-01		22
Cadmium	2.65E-01	4.97E-01	J	2.66E-01	5.21E-01	J	<2X	2.58E-01	5.24E-01	J	2.46E-01	5.14E-01	J	<2X	2.91E-01	5.32E-01	J	2.81E-01	5.14E-01	J	<2X
Chromium	1.16E+01	4.97E-01		1.28E+01	5.21E-01		10	7.06E+00	5.24E-01		7.11E+00	5.14E-01		1	1.12E+01	5.32E-01		1.38E+01	5.14E-01		21

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB03-005							CA129-SB04-009							CA129-SB05-005						
FIELD ID	CA129-SB03-005			CA129-SB503-005				CA129-SB04-009			CA129-SB504-009				CA129-SB05-005			CA129-SB505-005			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 24, 2013			January 24, 2013				January 24, 2013			January 24, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	1.03E+01	4.97E-01	J	2.63E+01	5.21E-01	J	87	4.57E+00	5.24E-01		4.61E+00	5.14E-01		1	1.15E+01	5.32E-01		1.22E+01	5.14E-01		6
Selenium	1.31E-01	4.97E-01	J	1.15E-01	5.21E-01	J	<2X	6.34E-02	5.24E-01	J	6.00E-02	5.14E-01	J	<2X	1.32E-01	5.32E-01	J	1.22E-01	5.14E-01	J	<2X
Silver	<	4.97E-01	U	<	5.21E-01	U		<	5.24E-01	U	<	5.14E-01	U		<	5.32E-01	U	<	5.14E-01	U	

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB06-010							CA501-SB03-004							CA501-SB09-004						
FIELD ID	CA129-SB06-010			CA129-SB506-010				CA501-SB03-004			CA501-SB503-004				CA501-SB09-004			CA501-SB509-004			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 29, 2013			January 29, 2013				January 29, 2013			January 29, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,1,1-Trichloroethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,1,2,2-Tetrachloroethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,1,2-Trichloroethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,1-Dichloroethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,1-Dichloroethene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,1-Dichloropropene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,2,3-Trichlorobenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,2,3-Trichloropropane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,2,4-Trichlorobenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,2,4-Trimethylbenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,2-Dibromo-3-Chloropropane	<	1.20E+01	U	<	9.90E+00	U		<	1.10E+01	U	<	9.90E+00	U		<	1.30E+01	U	<	1.20E+01	U	
1,2-Dibromoethane (Ethylene Dibromide)	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,2-Dichlorobenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,2-Dichloroethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,2-Dichloroethene (cis)	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,2-Dichloroethene (trans)	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,2-Dichloropropane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,3,5-Trimethylbenzene (Mesitylene)	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,3-Dichlorobenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,3-Dichloropropane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
1,4-Dichlorobenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
2,2-Dichloropropane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
2-Chlorotoluene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
2-Hexanone	<	2.40E+01	U	<	2.00E+01	U		<	2.10E+01	U	<	2.00E+01	U		<	2.50E+01	U	<	2.50E+01	U	
4-Chlorotoluene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
4-Methyl-2-Pentanone	<	2.40E+01	U	<	2.00E+01	U		<	2.10E+01	U	<	2.00E+01	U		<	2.50E+01	U	<	2.50E+01	U	
Acetone	<	1.20E+01	U	<	9.90E+00	U		<	1.10E+01	U	<	9.90E+00	U		<	1.30E+01	U	<	1.20E+01	U	
Benzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Bromobenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Bromochloromethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Bromodichloromethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Bromoform	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Bromomethane	<	1.20E+01	U	<	9.90E+00	U		<	1.10E+01	U	<	9.90E+00	U		<	1.30E+01	U	<	1.20E+01	U	
Carbon Disulfide	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Carbon Tetrachloride	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Chlorobenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB06-010							CA501-SB03-004							CA501-SB09-004						
FIELD ID	CA129-SB06-010			CA129-SB506-010				CA501-SB03-004			CA501-SB503-004				CA501-SB09-004			CA501-SB509-004			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 29, 2013			January 29, 2013				January 29, 2013			January 29, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Chloroform	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Chloromethane	<	1.20E+01	U	<	9.90E+00	U		<	1.10E+01	U	<	9.90E+00	U		<	1.30E+01	U	<	1.20E+01	U	
cis-1,3-Dichloropropene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Dibromochloromethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Dibromomethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Dichlorodifluoromethane	<	1.20E+01	U	<	9.90E+00	U		<	1.10E+01	U	<	9.90E+00	U		<	1.30E+01	U	<	1.20E+01	U	
Ethylbenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Hexachlorobutadiene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Isopropylbenzene (Cumene)	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
m,p-Xylene (sum of isomers)	<	1.20E+01	U	<	9.90E+00	U		<	1.10E+01	U	<	9.90E+00	U		<	1.30E+01	U	<	1.20E+01	U	
Methyl Ethyl Ketone (2-Butanone)	<	1.20E+01	U	<	9.90E+00	U		<	1.10E+01	U	<	9.90E+00	U		<	1.30E+01	U	<	1.20E+01	U	
Methylene Chloride	<	1.20E+01	U	<	9.90E+00	U		<	1.10E+01	U	<	9.90E+00	U		<	1.30E+01	U	<	1.20E+01	U	
Naphthalene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
n-Butylbenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
n-Propylbenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
o-Xylene (1,2-Dimethylbenzene)	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
p-Cymene (p-Isopropyltoluene)	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
sec-Butylbenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Styrene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
t-Butylbenzene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Tetrachloroethene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Toluene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
trans-1,3-Dichloropropene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Trichloroethene	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Trichlorofluoromethane	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
Vinyl Chloride	<	5.90E+00	U	<	5.00E+00	U		<	5.40E+00	U	<	4.90E+00	U		<	6.30E+00	U	<	6.20E+00	U	
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
1,2-Dichlorobenzene	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
1,3-Dichlorobenzene	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
1,4-Dichlorobenzene	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
2,4,5-Trichlorophenol	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
2,4,6-Trichlorophenol	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
2,4-Dichlorophenol	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
2,4-Dimethylphenol	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
2,4-Dinitrophenol	<	7.10E+02	U	<	7.10E+02	U		<	7.50E+02	U	<	7.60E+02	U		<	7.40E+02	U	<	7.40E+02	U	
2,4-Dinitrotoluene	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB06-010							CA501-SB03-004							CA501-SB09-004						
FIELD ID	CA129-SB06-010			CA129-SB506-010				CA501-SB03-004			CA501-SB503-004				CA501-SB09-004			CA501-SB509-004			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 29, 2013			January 29, 2013				January 29, 2013			January 29, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
2-Chloronaphthalene	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
2-Chlorophenol	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
2-Methylphenol (o-cresol)	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
2-Nitroaniline	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
2-Nitrophenol	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
3-Nitroaniline	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
4,6-Dinitro-2-methylphenol	<	7.10E+02	U	<	7.10E+02	U		<	7.50E+02	U	<	7.60E+02	U		<	7.40E+02	U	<	7.40E+02	U	
4-Bromophenyl-phenylether	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
4-Chloro-3-methylphenol	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
4-Chlorophenyl-phenylether	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
4-Methylphenol (p-cresol)	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
4-Nitroaniline	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
4-Nitrophenol	<	7.10E+02	U	<	7.10E+02	U		<	7.50E+02	U	<	7.60E+02	U		<	7.40E+02	U	<	7.40E+02	U	
Benzyl Alcohol	<	1.40E+03	U	<	1.40E+03	U		<	1.50E+03	U	<	1.50E+03	U		<	1.50E+03	U	<	1.40E+03	U	
bis(2-Chloroethoxy)methane	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
bis(2-Chloroethyl)ether	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
bis(2-Ethylhexyl)phthalate	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Butylbenzylphthalate	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Carbazole	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Dibenzofuran	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Diethylphthalate	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Dimethylphthalate	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Di-n-butylphthalate	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Di-n-octylphthalate	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Hexachlorobenzene	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Hexachlorobutadiene	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Hexachloroethane	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Isophorone	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Nitrobenzene	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
N-Nitrosodimethylamine	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
N-Nitroso-di-n-propylamine	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
N-Nitrosodiphenylamine	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
Pentachlorophenol	<	7.10E+02	U	<	7.10E+02	U		<	7.50E+02	U	<	7.60E+02	U		<	7.40E+02	U	<	7.40E+02	U	
Phenol	<	3.60E+02	U	<	3.60E+02	U		<	3.80E+02	U	<	3.80E+02	U		<	3.70E+02	U	<	3.70E+02	U	
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB06-010							CA501-SB03-004							CA501-SB09-004						
FIELD ID	CA129-SB06-010			CA129-SB506-010				CA501-SB03-004			CA501-SB503-004				CA501-SB09-004			CA501-SB509-004			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 29, 2013			January 29, 2013				January 29, 2013			January 29, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(a)anthracene	3.70E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(a)pyrene	6.70E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(b)fluoranthene	5.50E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(g,h,i)perylene	2.90E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Chrysene	3.10E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene	9.50E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluorene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Indeno(1,2,3-cd)pyrene	4.60E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Naphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Phenanthrene	5.80E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Pyrene	7.90E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD	<	4.30E+00	U	<	4.30E+00	U															
4,4-DDE	<	4.30E+00	U	<	4.30E+00	U															
4,4-DDT	<	4.30E+00	U	<	4.30E+00	U															
Aldrin	<	2.20E+00	U	<	2.20E+00	U															
alpha-BHC	<	2.20E+00	U	<	2.20E+00	U															
alpha-Chlordane	<	2.20E+00	U	<	2.20E+00	U															
beta-BHC	<	2.20E+00	U	<	2.20E+00	U															
delta-BHC	<	2.20E+00	U	<	2.20E+00	U															
Dieldrin	<	4.30E+00	U	<	4.30E+00	U															
Endosulfan I	<	2.20E+00	U	<	2.20E+00	U															
Endosulfan II	<	4.30E+00	U	<	4.30E+00	U															
Endosulfan sulfate	<	4.30E+00	U	<	4.30E+00	U															
Endrin	<	4.30E+00	U	<	4.30E+00	U															
Endrin aldehyde	<	4.30E+00	U	<	4.30E+00	U															
Endrin ketone	<	4.30E+00	U	<	4.30E+00	U															
gamma-BHC (Lindane)	<	2.20E+00	U	<	2.20E+00	U															
gamma-Chlordane	<	2.20E+00	U	<	2.20E+00	U															
Heptachlor	<	2.20E+00	U	<	2.20E+00	U															
Heptachlor epoxide	<	2.20E+00	U	<	2.20E+00	U															
Methoxychlor	<	2.20E+01	U	<	2.20E+01	U															

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB06-010							CA501-SB03-004							CA501-SB09-004						
FIELD ID	CA129-SB06-010			CA129-SB506-010				CA501-SB03-004			CA501-SB503-004				CA501-SB09-004			CA501-SB509-004			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 29, 2013			January 29, 2013				January 29, 2013			January 29, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	3.60E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Gasoline Range Organics	<	1.10E+00	U	<	1.10E+00	U		<	1.50E+00	U	<	1.20E+00	U		<	1.20E+00	U	<	1.00E+00	U	
Oil Range Organics	1.20E+01	2.20E+01	J	2.00E+01	2.20E+01	J	<2X	<	2.30E+01	U	<	2.30E+01	U		<	2.20E+01	U	<	2.20E+01	U	
METALS (mg/kg)																					
Arsenic	3.18E+00	5.33E-01		2.99E+00	5.24E-01		6	4.41E+00	5.49E-01		5.06E+00	5.57E-01		14	4.62E+00	5.48E-01		4.51E+00	5.31E-01		2
Barium	4.43E+02	5.33E-01		4.46E+02	5.24E-01		1	9.41E+01	5.49E-01		1.26E+02	5.57E-01		29	8.80E+01	5.48E-01		8.27E+01	5.31E-01		6
Cadmium	2.23E-01	5.33E-01	J	2.28E-01	5.24E-01	J	<2X	2.89E-01	5.49E-01	J	3.16E-01	5.57E-01	J	<2X	3.16E-01	5.48E-01	J	2.76E-01	5.31E-01	J	<2X
Chromium	6.21E+00	5.33E-01		6.58E+00	5.24E-01		6	1.39E+01	5.49E-01		1.57E+01	5.57E-01		12	1.52E+01	5.48E-01		1.33E+01	5.31E-01		13

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA129-SB06-010							CA501-SB03-004							CA501-SB09-004						
FIELD ID	CA129-SB06-010			CA129-SB506-010				CA501-SB03-004			CA501-SB503-004				CA501-SB09-004			CA501-SB509-004			
DATE COLLECTED	January 25, 2013			January 25, 2013				January 29, 2013			January 29, 2013				January 29, 2013			January 29, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	4.29E+00	5.33E-01		4.06E+00	5.24E-01		6	9.77E+00	5.49E-01		1.02E+01	5.57E-01		4	9.16E+00	5.48E-01		8.85E+00	5.31E-01		3
Selenium	6.66E-02	5.33E-01	J	7.89E-02	5.24E-01	J	<2X	1.18E-01	5.49E-01	J	1.51E-01	5.57E-01	J	<2X	1.28E-01	5.48E-01	J	1.29E-01	5.31E-01	J	<2X
Silver	<	5.33E-01	U	<	5.24E-01	U		<	5.49E-01	U	6.73E-02	5.57E-01	J		6.07E-02	5.48E-01	J	5.62E-02	5.31E-01	J	<2X

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA501-SB09-010							CA502-SB05-005							CA502-SB07-005						
FIELD ID	CA501-SB09-010			CA501-SB509-010				CA502-SB05-005			CA502-SB505-005				CA502-SB07-005			CA502-SB507-005			
DATE COLLECTED	January 29, 2013			January 29, 2013				February 1, 2013			February 1, 2013				January 31, 2013			January 31, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane	<	5.70E+00	U	<	5.40E+00	U															
1,1,1-Trichloroethane	<	5.70E+00	U	<	5.40E+00	U															
1,1,2,2-Tetrachloroethane	<	5.70E+00	U	<	5.40E+00	U															
1,1,2-Trichloroethane	<	5.70E+00	U	<	5.40E+00	U															
1,1-Dichloroethane	<	5.70E+00	U	<	5.40E+00	U															
1,1-Dichloroethene	<	5.70E+00	U	<	5.40E+00	U															
1,1-Dichloropropene	<	5.70E+00	U	<	5.40E+00	U															
1,2,3-Trichlorobenzene	<	5.70E+00	U	<	5.40E+00	U															
1,2,3-Trichloropropane	<	5.70E+00	U	<	5.40E+00	U															
1,2,4-Trichlorobenzene	<	5.70E+00	U	<	5.40E+00	U															
1,2,4-Trimethylbenzene	<	5.70E+00	U	<	5.40E+00	U															
1,2-Dibromo-3-Chloropropane	<	1.10E+01	U	<	1.10E+01	U															
1,2-Dibromoethane (Ethylene Dibromide)	<	5.70E+00	U	<	5.40E+00	U															
1,2-Dichlorobenzene	<	5.70E+00	U	<	5.40E+00	U															
1,2-Dichloroethane	<	5.70E+00	U	<	5.40E+00	U															
1,2-Dichloroethene (cis)	<	5.70E+00	U	<	5.40E+00	U															
1,2-Dichloroethene (trans)	<	5.70E+00	U	<	5.40E+00	U															
1,2-Dichloropropane	<	5.70E+00	U	<	5.40E+00	U															
1,3,5-Trimethylbenzene (Mesitylene)	<	5.70E+00	U	<	5.40E+00	U															
1,3-Dichlorobenzene	<	5.70E+00	U	<	5.40E+00	U															
1,3-Dichloropropane	<	5.70E+00	U	<	5.40E+00	U															
1,4-Dichlorobenzene	<	5.70E+00	U	<	5.40E+00	U															
2,2-Dichloropropane	<	5.70E+00	U	<	5.40E+00	U															
2-Chlorotoluene	<	5.70E+00	U	<	5.40E+00	U															
2-Hexanone	<	2.30E+01	U	<	2.20E+01	U															
4-Chlorotoluene	<	5.70E+00	U	<	5.40E+00	U															
4-Methyl-2-Pentanone	<	2.30E+01	U	<	2.20E+01	U															
Acetone	<	1.10E+01	U	<	1.10E+01	U															
Benzene	<	5.70E+00	U	<	5.40E+00	U		<	4.90E+00	U	<	4.80E+00	U		<	4.80E+00	U	<	5.10E+00	U	
Bromobenzene	<	5.70E+00	U	<	5.40E+00	U															
Bromochloromethane	<	5.70E+00	U	<	5.40E+00	U															
Bromodichloromethane	<	5.70E+00	U	<	5.40E+00	U															
Bromoform	<	5.70E+00	U	<	5.40E+00	U															
Bromomethane	<	1.10E+01	U	<	1.10E+01	U															
Carbon Disulfide	<	5.70E+00	U	<	5.40E+00	U															
Carbon Tetrachloride	<	5.70E+00	U	<	5.40E+00	U															
Chlorobenzene	<	5.70E+00	U	<	5.40E+00	U															

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA501-SB09-010							CA502-SB05-005							CA502-SB07-005						
FIELD ID	CA501-SB09-010			CA501-SB509-010				CA502-SB05-005			CA502-SB505-005				CA502-SB07-005			CA502-SB507-005			
DATE COLLECTED	January 29, 2013			January 29, 2013				February 1, 2013			February 1, 2013				January 31, 2013			January 31, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane	<	5.70E+00	U	<	5.40E+00	U															
Chloroform	<	5.70E+00	U	<	5.40E+00	U															
Chloromethane	<	1.10E+01	U	<	1.10E+01	U															
cis-1,3-Dichloropropene	<	5.70E+00	U	<	5.40E+00	U															
Dibromochloromethane	<	5.70E+00	U	<	5.40E+00	U															
Dibromomethane	<	5.70E+00	U	<	5.40E+00	U															
Dichlorodifluoromethane	<	1.10E+01	U	<	1.10E+01	U															
Ethylbenzene	<	5.70E+00	U	<	5.40E+00	U		<	4.90E+00	U	<	4.80E+00	U		<	4.80E+00	U	<	5.10E+00	U	
Hexachlorobutadiene	<	5.70E+00	U	<	5.40E+00	U															
Isopropylbenzene (Cumene)	<	5.70E+00	U	<	5.40E+00	U															
m,p-Xylene (sum of isomers)	<	1.10E+01	U	<	1.10E+01	U		<	9.80E+00	U	<	9.50E+00	U		<	9.60E+00	U	<	1.00E+01	U	
Methyl Ethyl Ketone (2-Butanone)	<	1.10E+01	U	<	1.10E+01	U															
Methylene Chloride	<	1.10E+01	U	<	1.10E+01	U															
Naphthalene	<	5.70E+00	U	<	5.40E+00	U		<	4.90E+00	U	<	4.80E+00	U		<	4.80E+00	U	<	5.10E+00	U	
n-Butylbenzene	<	5.70E+00	U	<	5.40E+00	U															
n-Propylbenzene	<	5.70E+00	U	<	5.40E+00	U															
o-Xylene (1,2-Dimethylbenzene)	<	5.70E+00	U	<	5.40E+00	U		<	4.90E+00	U	<	4.80E+00	U		<	4.80E+00	U	<	5.10E+00	U	
p-Cymene (p-Isopropyltoluene)	<	5.70E+00	U	<	5.40E+00	U															
sec-Butylbenzene	<	5.70E+00	U	<	5.40E+00	U															
Styrene	<	5.70E+00	U	<	5.40E+00	U															
t-Butylbenzene	<	5.70E+00	U	<	5.40E+00	U															
Tetrachloroethene	<	5.70E+00	U	<	5.40E+00	U															
Toluene	<	5.70E+00	U	<	5.40E+00	U		<	4.90E+00	U	<	4.80E+00	U		<	4.80E+00	U	<	5.10E+00	U	
trans-1,3-Dichloropropene	<	5.70E+00	U	<	5.40E+00	U															
Trichloroethene	<	5.70E+00	U	<	5.40E+00	U															
Trichlorofluoromethane	<	5.70E+00	U	<	5.40E+00	U															
Vinyl Chloride	<	5.70E+00	U	<	5.40E+00	U															
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene	<	3.60E+02	U	<	3.60E+02	U															
1,2-Dichlorobenzene	<	3.60E+02	U	<	3.60E+02	U															
1,3-Dichlorobenzene	<	3.60E+02	U	<	3.60E+02	U															
1,4-Dichlorobenzene	<	3.60E+02	U	<	3.60E+02	U															
2,4,5-Trichlorophenol	<	3.60E+02	U	<	3.60E+02	U															
2,4,6-Trichlorophenol	<	3.60E+02	U	<	3.60E+02	U															
2,4-Dichlorophenol	<	3.60E+02	U	<	3.60E+02	U															
2,4-Dimethylphenol	<	3.60E+02	U	<	3.60E+02	U															
2,4-Dinitrophenol	<	7.30E+02	U	<	7.30E+02	U															
2,4-Dinitrotoluene	<	3.60E+02	U	<	3.60E+02	U															

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA501-SB09-010							CA502-SB05-005							CA502-SB07-005						
FIELD ID	CA501-SB09-010			CA501-SB509-010				CA502-SB05-005			CA502-SB505-005				CA502-SB07-005			CA502-SB507-005			
DATE COLLECTED	January 29, 2013			January 29, 2013				February 1, 2013			February 1, 2013				January 31, 2013			January 31, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene	<	3.60E+02	U	<	3.60E+02	U															
2-Chloronaphthalene	<	3.60E+02	U	<	3.60E+02	U															
2-Chlorophenol	<	3.60E+02	U	<	3.60E+02	U															
2-Methylphenol (o-cresol)	<	3.60E+02	U	<	3.60E+02	U															
2-Nitroaniline	<	3.60E+02	U	<	3.60E+02	U															
2-Nitrophenol	<	3.60E+02	U	<	3.60E+02	U															
3-Nitroaniline	<	3.60E+02	U	<	3.60E+02	U															
4,6-Dinitro-2-methylphenol	<	7.30E+02	U	<	7.30E+02	U															
4-Bromophenyl-phenylether	<	3.60E+02	U	<	3.60E+02	U															
4-Chloro-3-methylphenol	<	3.60E+02	U	<	3.60E+02	U															
4-Chlorophenyl-phenylether	<	3.60E+02	U	<	3.60E+02	U															
4-Methylphenol (p-cresol)	<	3.60E+02	U	<	3.60E+02	U															
4-Nitroaniline	<	3.60E+02	U	<	3.60E+02	U															
4-Nitrophenol	<	7.30E+02	U	<	7.30E+02	U															
Benzyl Alcohol	<	1.40E+03	U	<	1.40E+03	U															
bis(2-Chloroethoxy)methane	<	3.60E+02	U	<	3.60E+02	U															
bis(2-Chloroethyl)ether	<	3.60E+02	U	<	3.60E+02	U															
bis(2-Ethylhexyl)phthalate	<	3.60E+02	U	<	3.60E+02	U															
Butylbenzylphthalate	<	3.60E+02	U	<	3.60E+02	U															
Carbazole	<	3.60E+02	U	<	3.60E+02	U															
Dibenzofuran	<	3.60E+02	U	<	3.60E+02	U															
Diethylphthalate	<	3.60E+02	U	<	3.60E+02	U															
Dimethylphthalate	<	3.60E+02	U	<	3.60E+02	U															
Di-n-butylphthalate	<	3.60E+02	U	<	3.60E+02	U															
Di-n-octylphthalate	<	3.60E+02	U	<	3.60E+02	U															
Hexachlorobenzene	<	3.60E+02	U	<	3.60E+02	U															
Hexachlorobutadiene	<	3.60E+02	U	<	3.60E+02	U															
Hexachloroethane	<	3.60E+02	U	<	3.60E+02	U															
Isophorone	<	3.60E+02	U	<	3.60E+02	U															
Nitrobenzene	<	3.60E+02	U	<	3.60E+02	U															
N-Nitrosodimethylamine	<	3.60E+02	U	<	3.60E+02	U															
N-Nitroso-di-n-propylamine	<	3.60E+02	U	<	3.60E+02	U															
N-Nitrosodiphenylamine	<	3.60E+02	U	<	3.60E+02	U															
Pentachlorophenol	<	7.30E+02	U	<	7.30E+02	U															
Phenol	<	3.60E+02	U	<	3.60E+02	U															
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	2.90E+00	1.10E+01	J	<2X	<	2.40E+01	U	<	2.40E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene	<	1.10E+01	U	<	1.10E+01	U															

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA501-SB09-010							CA502-SB05-005							CA502-SB07-005						
FIELD ID	CA501-SB09-010			CA501-SB509-010				CA502-SB05-005			CA502-SB505-005				CA502-SB07-005			CA502-SB507-005			
DATE COLLECTED	January 29, 2013			January 29, 2013				February 1, 2013			February 1, 2013				January 31, 2013			January 31, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene	<	1.10E+01	U	<	1.10E+01	U															
Anthracene	<	1.10E+01	U	<	1.10E+01	U															
Benzo(a)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	2.40E+01	U	6.70E+00	2.40E+01	J	<2X	<	1.10E+01	U	8.20E+00	1.10E+01	J	<2X
Benzo(a)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	2.40E+01	U	<	2.40E+01	U		<	1.10E+01	U	9.00E+00	1.10E+01	J	<2X
Benzo(b)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	2.40E+01	U	6.00E+00	2.40E+01	J	<2X	<	1.10E+01	U	1.40E+01	1.10E+01		<2X
Benzo(g,h,i)perylene	<	1.10E+01	U	<	1.10E+01	U															
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	2.40E+01	U	<	2.40E+01	U		<	1.10E+01	U	5.10E+00	1.10E+01	J	<2X
Chrysene	<	1.10E+01	U	<	1.10E+01	U		<	2.40E+01	U	<	2.40E+01	U		<	1.10E+01	U	5.70E+00	1.10E+01	J	<2X
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	2.40E+01	U	<	2.40E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene	<	1.10E+01	U	<	1.10E+01	U															
Fluorene	<	1.10E+01	U	<	1.10E+01	U															
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	2.40E+01	U	<	2.40E+01	U		<	1.10E+01	U	5.70E+00	1.10E+01	J	<2X
Naphthalene	<	1.10E+01	U	<	1.10E+01	U															
Phenanthrene	<	1.10E+01	U	<	1.10E+01	U															
Pyrene	<	1.10E+01	U	<	1.10E+01	U															
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA501-SB09-010							CA502-SB05-005							CA502-SB07-005						
FIELD ID	CA501-SB09-010			CA501-SB509-010				CA502-SB05-005			CA502-SB505-005				CA502-SB07-005			CA502-SB507-005			
DATE COLLECTED	January 29, 2013			January 29, 2013				February 1, 2013			February 1, 2013				January 31, 2013			January 31, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		5.00E+00	1.20E+01	J	5.80E+00	1.20E+01	J	<2X	4.70E+00	1.10E+01	J	5.50E+00	1.10E+01	J	<2X
Gasoline Range Organics	<	1.10E+00	U	<	1.10E+00	U		<	1.10E+00	U	<	1.00E+00	U		<	9.70E-01	U	<	9.90E-01	U	
Oil Range Organics	<	2.20E+01	U	<	2.20E+01	U		6.10E+01	2.40E+01		4.70E+01	2.40E+01		<2X	2.90E+01	2.20E+01		3.90E+01	2.20E+01		29
METALS (mg/kg)																					
Arsenic	3.51E+00	5.31E-01		3.54E+00	5.25E-01		1														
Barium	6.39E+02	5.31E-01		5.51E+02	5.25E-01		15														
Cadmium	2.80E-01	5.31E-01	J	2.80E-01	5.25E-01	J	<2X														
Chromium	8.40E+00	5.31E-01		8.45E+00	5.25E-01		1														

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA501-SB09-010							CA502-SB05-005							CA502-SB07-005						
FIELD ID	CA501-SB09-010			CA501-SB509-010				CA502-SB05-005			CA502-SB505-005				CA502-SB07-005			CA502-SB507-005			
DATE COLLECTED	January 29, 2013			January 29, 2013				February 1, 2013			February 1, 2013				January 31, 2013			January 31, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	4.98E+00	5.31E-01		5.10E+00	5.25E-01		2	1.32E+02	5.75E-01		1.71E+02	5.73E-01		26	3.11E+01	5.46E-01	J	1.78E+01	5.16E-01	J	54
Selenium	<	5.31E-01	U	9.11E-02	5.25E-01	J	<2X														
Silver	<	5.31E-01	U	<	5.25E-01	U															

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB09-020							CA502-SB09-025							CA502-SB11-025						
FIELD ID	CA502-SB09-020			CA502-SB509-020				CA502-SB09-025			CA502-SB509-025				CA502-SB11-025			CA502-SB511-025			
DATE COLLECTED	February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	6.20E+00	U	<	5.90E+00	U		<	5.80E+00	U	<	5.80E+00	U		<	6.00E+00	U	<	7.80E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB09-020							CA502-SB09-025							CA502-SB11-025						
FIELD ID	CA502-SB09-020			CA502-SB509-020				CA502-SB09-025			CA502-SB509-025				CA502-SB11-025			CA502-SB511-025			
DATE COLLECTED	February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	6.20E+00	U	<	5.90E+00	U		<	5.80E+00	U	<	5.80E+00	U		<	6.00E+00	U	<	7.80E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.20E+01	U	<	1.20E+01	U		<	1.20E+01	U	<	1.20E+01	U		<	1.20E+01	U	<	1.60E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	6.20E+00	U	<	5.90E+00	U		<	5.80E+00	U	<	5.80E+00	U		<	6.00E+00	U	<	7.80E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	6.20E+00	U	<	5.90E+00	U		<	5.80E+00	U	<	5.80E+00	U		<	6.00E+00	U	<	7.80E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	6.20E+00	U	<	5.90E+00	U		<	5.80E+00	U	<	5.80E+00	U		<	6.00E+00	U	<	7.80E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB09-020							CA502-SB09-025							CA502-SB11-025						
FIELD ID	CA502-SB09-020			CA502-SB509-020				CA502-SB09-025			CA502-SB509-025				CA502-SB11-025			CA502-SB511-025			
DATE COLLECTED	February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.20E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB09-020							CA502-SB09-025							CA502-SB11-025						
FIELD ID	CA502-SB09-020			CA502-SB509-020				CA502-SB09-025			CA502-SB509-025				CA502-SB11-025			CA502-SB511-025			
DATE COLLECTED	February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.20E+01	U	
Benzo(a)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.20E+01	U	
Benzo(b)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.20E+01	U	
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.20E+01	U	
Chrysene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.20E+01	U	
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.20E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.20E+01	U	
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB09-020							CA502-SB09-025							CA502-SB11-025						
FIELD ID	CA502-SB09-020			CA502-SB509-020				CA502-SB09-025			CA502-SB509-025				CA502-SB11-025			CA502-SB511-025			
DATE COLLECTED	February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.20E+01	U	
Gasoline Range Organics	<	1.20E+00	U	<	1.20E+00	U		<	1.10E+00	U	<	1.20E+00	U		<	1.10E+00	U	<	1.30E+00	U	
Oil Range Organics	<	2.20E+01	U	<	2.30E+01	U		<	2.30E+01	U	<	2.30E+01	U		<	2.30E+01	U	<	2.40E+01	U	
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB09-020							CA502-SB09-025							CA502-SB11-025						
FIELD ID	CA502-SB09-020			CA502-SB509-020				CA502-SB09-025			CA502-SB509-025				CA502-SB11-025			CA502-SB511-025			
DATE COLLECTED	February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013				February 1, 2013			February 1, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	1.12E+01	5.34E-01		1.10E+01	5.08E-01		2	4.92E+00	5.38E-01		5.49E+00	5.71E-01		11	2.62E+00	5.64E-01		2.57E+00	5.67E-01		2
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB11-028							CA503-SB03-015							CA503-SB05-015						
FIELD ID	CA502-SB11-028			CA502-SB511-028				CA503-SB03-015			CA503-SB503-015				CA503-SB05-015			CA503-SB505-015			
DATE COLLECTED	February 1, 2013			February 1, 2013				January 29, 2013			January 29, 2013				January 30, 2013			January 30, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	5.40E+00	U	<	6.20E+00	U		<	6.20E+00	U	<	5.10E+00	U		<	4.30E+00	U	<	4.40E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB11-028							CA503-SB03-015							CA503-SB05-015						
FIELD ID	CA502-SB11-028			CA502-SB511-028				CA503-SB03-015			CA503-SB503-015				CA503-SB05-015			CA503-SB505-015			
DATE COLLECTED	February 1, 2013			February 1, 2013				January 29, 2013			January 29, 2013				January 30, 2013			January 30, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	5.40E+00	U	<	6.20E+00	U		<	6.20E+00	U	<	5.10E+00	U		<	4.30E+00	U	<	4.40E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.10E+01	U	<	1.20E+01	U		<	1.20E+01	U	<	1.00E+01	U		<	8.60E+00	U	<	8.80E+00	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	5.40E+00	U	<	6.20E+00	U		<	6.20E+00	U	<	5.10E+00	U		<	4.30E+00	U	<	4.40E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	5.40E+00	U	<	6.20E+00	U		<	6.20E+00	U	<	5.10E+00	U		<	4.30E+00	U	<	4.40E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	5.40E+00	U	<	6.20E+00	U		<	6.20E+00	U	<	5.10E+00	U		<	4.30E+00	U	<	4.40E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB11-028							CA503-SB03-015							CA503-SB05-015						
FIELD ID	CA502-SB11-028			CA502-SB511-028				CA503-SB03-015			CA503-SB503-015				CA503-SB05-015			CA503-SB505-015			
DATE COLLECTED	February 1, 2013			February 1, 2013				January 29, 2013			January 29, 2013				January 30, 2013			January 30, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB11-028							CA503-SB03-015							CA503-SB05-015						
FIELD ID	CA502-SB11-028			CA502-SB511-028				CA503-SB03-015			CA503-SB503-015				CA503-SB05-015			CA503-SB505-015			
DATE COLLECTED	February 1, 2013			February 1, 2013				January 29, 2013			January 29, 2013				January 30, 2013			January 30, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	3.80E+00	1.10E+01	J	<2X
Benzo(a)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(b)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	3.10E+00	1.10E+01	J	<2X
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Chrysene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB11-028							CA503-SB03-015							CA503-SB05-015						
FIELD ID	CA502-SB11-028			CA502-SB511-028				CA503-SB03-015			CA503-SB503-015				CA503-SB05-015			CA503-SB505-015			
DATE COLLECTED	February 1, 2013			February 1, 2013				January 29, 2013			January 29, 2013				January 30, 2013			January 30, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		9.80E+00	1.10E+01	J	8.00E+00	1.10E+01	J	<2X
Gasoline Range Organics	<	1.20E+00	U	<	1.40E+00	U															
Oil Range Organics	<	2.30E+01	U					<	2.20E+01	U	<	2.20E+01	U		<	2.20E+01	U	<	2.20E+01	U	
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA502-SB11-028							CA503-SB03-015							CA503-SB05-015						
FIELD ID	CA502-SB11-028			CA502-SB511-028				CA503-SB03-015			CA503-SB503-015				CA503-SB05-015			CA503-SB505-015			
DATE COLLECTED	February 1, 2013			February 1, 2013				January 29, 2013			January 29, 2013				January 30, 2013			January 30, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	5.65E+00	5.54E-01		4.90E+00	5.38E-01		14														
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA503-SB05-10							CA504-SB01-025							CA504-SB01-045						
FIELD ID	CA503-SB05-10			CA503-SB505-10				CA504-SB01-025			CA504-SB501-025				CA504-SB01-045			CA504-SB501-045			
DATE COLLECTED	January 30, 2013			January 30, 2013				February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	6.30E+00	U	<	5.80E+00	U		<	5.30E+00	U	<	6.30E+00	UJ		<	5.70E+00	U	<	5.40E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA503-SB05-10							CA504-SB01-025							CA504-SB01-045						
FIELD ID	CA503-SB05-10			CA503-SB505-10				CA504-SB01-025			CA504-SB501-025				CA504-SB01-045			CA504-SB501-045			
DATE COLLECTED	January 30, 2013			January 30, 2013				February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	6.30E+00	U	<	5.80E+00	U		<	5.30E+00	U	<	6.30E+00	UJ		<	5.70E+00	U	<	5.40E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.30E+01	U	<	1.20E+01	U		<	1.10E+01	U	<	1.30E+01	UJ		<	1.10E+01	U	<	1.10E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	6.30E+00	U	<	5.80E+00	U		2.50E+00	5.30E+00	J	<	6.30E+00	UJ	<2X	6.30E+00	5.70E+00	J	6.00E+00	5.40E+00	J	<2X
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	6.30E+00	U	<	5.80E+00	U		<	5.30E+00	U	<	6.30E+00	UJ		<	5.70E+00	U	<	5.40E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	6.30E+00	U	<	5.80E+00	U		<	5.30E+00	U	<	6.30E+00	UJ		<	5.70E+00	U	<	5.40E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA503-SB05-10							CA504-SB01-025							CA504-SB01-045						
FIELD ID	CA503-SB05-10			CA503-SB505-10				CA504-SB01-025			CA504-SB501-025				CA504-SB01-045			CA504-SB501-045			
DATE COLLECTED	January 30, 2013			January 30, 2013				February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA503-SB05-10							CA504-SB01-025							CA504-SB01-045						
FIELD ID	CA503-SB05-10			CA503-SB505-10				CA504-SB01-025			CA504-SB501-025				CA504-SB01-045			CA504-SB501-045			
DATE COLLECTED	January 30, 2013			January 30, 2013				February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	1.30E+01	1.10E+01		3.00E+01	1.10E+01		<2X	5.00E+01	1.10E+01	J	<	1.10E+01	UJ	200	2.00E+02	1.10E+01	J	1.80E+02	1.10E+01	J	11
Benzo(a)pyrene	1.00E+01	1.10E+01	J	2.60E+01	1.10E+01		<2X	8.00E+01	1.10E+01	J	6.90E+01	1.10E+01	J	15	5.30E+01	1.10E+01	J	4.90E+01	1.10E+01	J	<2X
Benzo(b)fluoranthene	1.30E+01	1.10E+01		3.30E+01	1.10E+01		<2X	1.20E+02	1.10E+01	J	1.00E+02	1.10E+01	J	18	9.20E+01	1.10E+01	J	7.80E+01	1.10E+01	J	16
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	5.30E+00	1.10E+01	J	1.20E+01	1.10E+01		<2X	3.10E+01	1.10E+01	J	2.60E+01	1.10E+01	J	18	3.20E+01	1.10E+01	J	2.70E+01	1.10E+01	J	<2X
Chrysene	9.30E+00	1.10E+01	J	2.90E+01	1.10E+01		<2X	2.80E+02	1.10E+01	J	2.40E+02	1.10E+01	J	15	2.40E+02	1.10E+01	J	2.30E+02	1.10E+01	J	4
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		1.10E+01	1.10E+01	J	8.60E+00	1.10E+01	J	<2X	3.90E+00	1.10E+01	J	4.30E+00	1.10E+01	J	<2X
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	5.50E+00	1.10E+01	J	1.30E+01	1.10E+01			3.00E+01	1.10E+01	J	2.30E+01	1.10E+01	J	<2X	1.20E+01	1.10E+01	J	1.30E+01	1.10E+01	J	<2X
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA503-SB05-10							CA504-SB01-025							CA504-SB01-045						
FIELD ID	CA503-SB05-10			CA503-SB505-10				CA504-SB01-025			CA504-SB501-025				CA504-SB01-045			CA504-SB501-045			
DATE COLLECTED	January 30, 2013			January 30, 2013				February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	1.00E+01	1.10E+01	J	8.40E+00	1.10E+01	J	<2X	2.70E+03	1.10E+01		2.30E+03	1.10E+01		16	4.90E+03	1.10E+02		4.60E+03	1.10E+02		6
Gasoline Range Organics																					
Oil Range Organics	9.00E+00	2.20E+01	J	2.00E+01	2.20E+01	J	<2X	2.00E+01	2.10E+01	J	1.50E+01	2.10E+01	J	<2X	<	2.10E+02	U	<	2.10E+02	U	
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA503-SB05-10							CA504-SB01-025							CA504-SB01-045						
FIELD ID	CA503-SB05-10			CA503-SB505-10				CA504-SB01-025			CA504-SB501-025				CA504-SB01-045			CA504-SB501-045			
DATE COLLECTED	January 30, 2013			January 30, 2013				February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead																					
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-085							CA504-SB01-135							CA504-SB01-160						
FIELD ID	CA504-SB01-085			CA504-SB501-085				CA504-SB01-135			CA504-SB501-135				CA504-SB01-160			CA504-SB501-160			
DATE COLLECTED	February 6, 2013			February 6, 2013				July 10, 2013			July 10, 2013				July 10, 2013			July 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	5.30E+00	U	<	6.00E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	5.70E+00	UJ	<	5.80E+00	UJ	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-085							CA504-SB01-135							CA504-SB01-160						
FIELD ID	CA504-SB01-085			CA504-SB501-085				CA504-SB01-135			CA504-SB501-135				CA504-SB01-160			CA504-SB501-160			
DATE COLLECTED	February 6, 2013			February 6, 2013				July 10, 2013			July 10, 2013				July 10, 2013			July 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	5.30E+00	U	<	6.00E+00	U		1.60E+01	5.30E+00	J	3.20E+01	5.40E+00	J	>2X	8.10E+01	5.70E+00	J	7.80E+01	5.80E+00	J	4
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.10E+01	U	<	1.20E+01	U		7.30E+01	1.10E+01	J	1.50E+02	1.10E+01	J	69	3.60E+02	1.10E+01	J	3.50E+02	1.20E+01	J	3
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	5.30E+00	U	<	6.00E+00	U		7.60E+00	5.30E+00		9.80E+00	5.40E+00		<2X	9.20E+01	5.70E+00	J	1.00E+02	5.80E+00	J	8
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	5.30E+00	U	<	6.00E+00	U		4.20E+01	5.30E+00	J	8.80E+01	5.40E+00	J	71	2.00E+02	5.70E+00	J	1.90E+02	5.80E+00	J	5
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	5.30E+00	U	<	6.00E+00	U		3.10E+00	5.30E+00	J	5.00E+00	5.40E+00	J	<2X	1.10E+01	5.70E+00	J	9.80E+00	5.80E+00	J	<2X
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-085							CA504-SB01-135							CA504-SB01-160						
FIELD ID	CA504-SB01-085			CA504-SB501-085				CA504-SB01-135			CA504-SB501-135				CA504-SB01-160			CA504-SB501-160			
DATE COLLECTED	February 6, 2013			February 6, 2013				July 10, 2013			July 10, 2013				July 10, 2013			July 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		1.10E+03	1.10E+01		1.20E+03	1.10E+01		9	5.20E+03	3.10E+01		5.70E+03	3.10E+01		9
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-085							CA504-SB01-135							CA504-SB01-160						
FIELD ID	CA504-SB01-085			CA504-SB501-085				CA504-SB01-135			CA504-SB501-135				CA504-SB01-160			CA504-SB501-160			
DATE COLLECTED	February 6, 2013			February 6, 2013				July 10, 2013			July 10, 2013				July 10, 2013			July 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	1.80E+01	1.10E+01		1.90E+01	1.10E+01		<2X	1.70E+01	1.10E+01		2.10E+01	1.10E+01		<2X	1.10E+01	1.00E+01		1.20E+01	1.00E+01		<2X
Benzo(a)pyrene	1.40E+01	1.10E+01		1.60E+01	1.10E+01		<2X	5.20E+00	1.10E+01	J	3.30E+00	1.10E+01	J	<2X	<	1.00E+01	U	<	1.00E+01	U	
Benzo(b)fluoranthene	1.50E+01	1.10E+01		1.60E+01	1.10E+01		<2X	6.70E+00	1.10E+01	J	5.40E+00	1.10E+01	J	<2X	<	1.00E+01	U	<	1.00E+01	U	
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	3.50E+00	1.10E+01	J	3.70E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.00E+01	U	<	1.00E+01	U	
Chrysene	4.30E+01	1.10E+01		4.80E+01	1.10E+01		<2X	3.30E+01	1.10E+01		3.40E+01	1.10E+01		<2X	1.30E+01	1.00E+01		1.80E+01	1.00E+01		<2X
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U	<2X	3.00E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.00E+01	U	<	1.00E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	5.10E+00	1.10E+01	J	5.40E+00	1.10E+01	J	<2X	3.30E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.00E+01	U	<	1.00E+01	U	
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-085							CA504-SB01-135							CA504-SB01-160						
FIELD ID	CA504-SB01-085			CA504-SB501-085				CA504-SB01-135			CA504-SB501-135				CA504-SB01-160			CA504-SB501-160			
DATE COLLECTED	February 6, 2013			February 6, 2013				July 10, 2013			July 10, 2013				July 10, 2013			July 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	4.70E+03	1.10E+02		4.80E+03	1.10E+02		2	2.50E+03	1.10E+01		2.40E+03	1.10E+01		4	1.50E+03	1.00E+01		1.50E+03	1.00E+01		0
Gasoline Range Organics																					
Oil Range Organics	<	2.10E+02	U	<	2.10E+02	U	<2X	<	2.10E+01	U	<	2.10E+01	U		<	2.10E+01	U	<	2.10E+01	U	
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-085							CA504-SB01-135							CA504-SB01-160						
FIELD ID	CA504-SB01-085			CA504-SB501-085				CA504-SB01-135			CA504-SB501-135				CA504-SB01-160			CA504-SB501-160			
DATE COLLECTED	February 6, 2013			February 6, 2013				July 10, 2013			July 10, 2013				July 10, 2013			July 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead																					
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-240							CA504-SB02-025							CA504-SB02-080						
FIELD ID	CA504-SB01-240			CA504-SB501-240				CA504-SB02-025			CA504-SB502-025				CA504-SB02-080			CA504-SB502-080			
DATE COLLECTED	July 11, 2013			July 11, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	6.40E+00	U	<	4.80E+00	U		<	7.30E+00	U	<	5.80E+00	U		<	5.20E+00	U	<	5.70E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-240							CA504-SB02-025							CA504-SB02-080						
FIELD ID	CA504-SB01-240			CA504-SB501-240				CA504-SB02-025			CA504-SB502-025				CA504-SB02-080			CA504-SB502-080			
DATE COLLECTED	July 11, 2013			July 11, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	6.40E+00	U	<	4.80E+00	U		<	7.30E+00	U	<	5.80E+00	U		<	5.20E+00	U	<	5.70E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.30E+01	U	<	9.60E+00	U		<	1.50E+01	U	<	1.20E+01	U		<	1.00E+01	U	<	1.10E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	5.70E+00	6.40E+00	J	5.20E+00	4.80E+00		<2X	<	7.30E+00	U	<	5.80E+00	U		<	5.20E+00	U	<	5.70E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	6.40E+00	U	<	4.80E+00	U		<	7.30E+00	U	<	5.80E+00	U		<	5.20E+00	U	<	5.70E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	6.40E+00	U	<	4.80E+00	U		<	7.30E+00	U	<	5.80E+00	U		<	5.20E+00	U	<	5.70E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-240							CA504-SB02-025							CA504-SB02-080						
FIELD ID	CA504-SB01-240			CA504-SB501-240				CA504-SB02-025			CA504-SB502-025				CA504-SB02-080			CA504-SB502-080			
DATE COLLECTED	July 11, 2013			July 11, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.00E+01	U	<	1.00E+01	U		1.00E+02	1.10E+01		1.00E+02	1.10E+01		0	<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-240							CA504-SB02-025							CA504-SB02-080						
FIELD ID	CA504-SB01-240			CA504-SB501-240				CA504-SB02-025			CA504-SB502-025				CA504-SB02-080			CA504-SB502-080			
DATE COLLECTED	July 11, 2013			July 11, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.00E+01	U	<	1.00E+01	U		3.10E+01	1.10E+01		3.20E+01	1.10E+01		<2X	2.10E+01	1.10E+01		2.30E+01	1.10E+01		<2X
Benzo(a)pyrene	<	1.00E+01	U	<	1.00E+01	U		1.50E+01	1.10E+01		1.60E+01	1.10E+01		<2X	4.00E+00	1.10E+01	J	4.40E+00	1.10E+01	J	<2X
Benzo(b)fluoranthene	<	1.00E+01	U	<	1.00E+01	U		1.90E+01	1.10E+01		1.90E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U	
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.00E+01	U	<	1.00E+01	U		5.60E+00	1.10E+01	J	6.80E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Chrysene	<	1.00E+01	U	<	1.00E+01	U		4.20E+01	1.10E+01		4.60E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U	
Dibenz(a,h)anthracene	<	1.00E+01	U	<	1.00E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.00E+01	U	<	1.00E+01	U		3.40E+00	1.10E+01	J	3.70E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-240							CA504-SB02-025							CA504-SB02-080						
FIELD ID	CA504-SB01-240			CA504-SB501-240				CA504-SB02-025			CA504-SB502-025				CA504-SB02-080			CA504-SB502-080			
DATE COLLECTED	July 11, 2013			July 11, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	3.10E+00	1.00E+01	J	3.20E+00	1.00E+01	J	<2X	2.10E+03	1.10E+01		2.30E+03	1.10E+01		9	4.40E+03	1.10E+02		4.20E+03	1.10E+02		5
Gasoline Range Organics																					
Oil Range Organics	<	2.10E+01	U	<	2.10E+01	U		5.40E+00	2.20E+01	J	<	2.10E+01	U	<2X	<	2.10E+02	U	<	2.10E+02	U	
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB01-240							CA504-SB02-025							CA504-SB02-080						
FIELD ID	CA504-SB01-240			CA504-SB501-240				CA504-SB02-025			CA504-SB502-025				CA504-SB02-080			CA504-SB502-080			
DATE COLLECTED	July 11, 2013			July 11, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead																					
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB03-025							CA504-SB03-040							CA504-SB04-030						
FIELD ID	CA504-SB03-025			CA504-SB503-025				CA504-SB03-040			CA504-SB503-040				CA504-SB04-030			CA504-SB504-030			
DATE COLLECTED	February 12, 2013			February 12, 2013				February 12, 2013			February 12, 2013				February 10, 2013			February 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	6.40E+00	U	<	6.80E+00	U		<	8.00E+00	U	<	6.20E+00	U		<	5.30E+00	U	<	5.50E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB03-025							CA504-SB03-040							CA504-SB04-030						
FIELD ID	CA504-SB03-025			CA504-SB503-025				CA504-SB03-040			CA504-SB503-040				CA504-SB04-030			CA504-SB504-030			
DATE COLLECTED	February 12, 2013			February 12, 2013				February 12, 2013			February 12, 2013				February 10, 2013			February 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	6.40E+00	U	<	6.80E+00	U		<	8.00E+00	U	<	6.20E+00	U		<	5.30E+00	U	<	5.50E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.30E+01	U	<	1.40E+01	U		<	1.60E+01	U	<	1.20E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	6.40E+00	U	<	6.80E+00	U		<	8.00E+00	U	<	6.20E+00	U		<	5.30E+00	U	<	5.50E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	6.40E+00	U	<	6.80E+00	U		<	8.00E+00	U	<	6.20E+00	U		<	5.30E+00	U	<	5.50E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	6.40E+00	U	<	6.80E+00	U		<	8.00E+00	U	<	6.20E+00	U		<	5.30E+00	U	<	5.50E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB03-025							CA504-SB03-040							CA504-SB04-030						
FIELD ID	CA504-SB03-025			CA504-SB503-025				CA504-SB03-040			CA504-SB503-040				CA504-SB04-030			CA504-SB504-030			
DATE COLLECTED	February 12, 2013			February 12, 2013				February 12, 2013			February 12, 2013				February 10, 2013			February 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	3.00E+00	1.10E+01	J	<	1.20E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB03-025							CA504-SB03-040							CA504-SB04-030						
FIELD ID	CA504-SB03-025			CA504-SB503-025				CA504-SB03-040			CA504-SB503-040				CA504-SB04-030			CA504-SB504-030			
DATE COLLECTED	February 12, 2013			February 12, 2013				February 12, 2013			February 12, 2013				February 10, 2013			February 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	U	<	1.20E+01	U	<2X	4.00E+01	1.10E+01		4.10E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U	
Benzo(a)pyrene	1.20E+01	1.10E+01		1.00E+01	1.20E+01	J	<2X	2.50E+01	1.10E+01		2.50E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U	
Benzo(b)fluoranthene	2.30E+01	1.10E+01		1.60E+01	1.20E+01		<2X	3.80E+01	1.10E+01		3.70E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U	
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.20E+01	U		8.50E+00	1.10E+01	J	9.30E+00	1.10E+01	J		<	1.10E+01	U	<	1.10E+01	U	
Chrysene	2.30E+01	1.10E+01		<	1.20E+01	U	<2X	6.80E+01	1.10E+01		7.10E+01	1.10E+01		4	<	1.10E+01	U	<	1.10E+01	U	
Dibenz(a,h)anthracene	<	1.10E+01	U	6.40E+00	1.20E+01	J	<2X	5.80E+00	1.10E+01	J	5.80E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	1.30E+01	1.10E+01		1.30E+01	1.20E+01		<2X	9.50E+00	1.10E+01	J	9.70E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB03-025							CA504-SB03-040							CA504-SB04-030						
FIELD ID	CA504-SB03-025			CA504-SB503-025				CA504-SB03-040			CA504-SB503-040				CA504-SB04-030			CA504-SB504-030			
DATE COLLECTED	February 12, 2013			February 12, 2013				February 12, 2013			February 12, 2013				February 10, 2013			February 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	8.40E+02	1.10E+01		9.00E+02	1.20E+01		7	5.10E+03	1.10E+02		5.00E+03	1.10E+02		2	7.00E+02	1.10E+01		7.00E+02	1.10E+01		0
Gasoline Range Organics																					
Oil Range Organics	9.30E+00	2.30E+01	J	<	2.30E+01	U	<2X	<	2.10E+02	U	<	2.10E+02	U	<2X	<	2.10E+01	U	6.20E+00	2.10E+01	J	<2X
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB03-025							CA504-SB03-040							CA504-SB04-030						
FIELD ID	CA504-SB03-025			CA504-SB503-025				CA504-SB03-040			CA504-SB503-040				CA504-SB04-030			CA504-SB504-030			
DATE COLLECTED	February 12, 2013			February 12, 2013				February 12, 2013			February 12, 2013				February 10, 2013			February 10, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead																					
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB06-015							CA504-SB13-020							CA504-SB16-020						
FIELD ID	CA504-SB06-015			CA504-SB506-015				CA504-SB13-020			CA504-SB513-020				CA504-SB16-020			CA504-SB516-020			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 14, 2013			February 14, 2013				February 15, 2013			February 15, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	5.90E+00	U	<	5.20E+00	U		<	5.70E+00	U	<	6.30E+00	U		<	5.80E+00	UJ	<	6.30E+00	UJ	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB06-015							CA504-SB13-020							CA504-SB16-020						
FIELD ID	CA504-SB06-015			CA504-SB506-015				CA504-SB13-020			CA504-SB513-020				CA504-SB16-020			CA504-SB516-020			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 14, 2013			February 14, 2013				February 15, 2013			February 15, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	5.90E+00	U	<	5.20E+00	U		<	5.70E+00	U	<	6.30E+00	U		<	5.80E+00	UJ	<	6.30E+00	UJ	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.20E+01	U	<	1.00E+01	U		<	1.10E+01	U	<	1.30E+01	U		<	1.20E+01	UJ	<	1.30E+01	UJ	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	5.90E+00	U	<	5.20E+00	U		<	5.70E+00	U	<	6.30E+00	U		<	5.80E+00	UJ	<	6.30E+00	UJ	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	5.90E+00	U	<	5.20E+00	U		<	5.70E+00	U	<	6.30E+00	U		<	5.80E+00	UJ	<	6.30E+00	UJ	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	5.90E+00	U	<	5.20E+00	U		<	5.70E+00	U	<	6.30E+00	U		<	5.80E+00	UJ	<	6.30E+00	UJ	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB06-015							CA504-SB13-020							CA504-SB16-020						
FIELD ID	CA504-SB06-015			CA504-SB506-015				CA504-SB13-020			CA504-SB513-020				CA504-SB16-020			CA504-SB516-020			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 14, 2013			February 14, 2013				February 15, 2013			February 15, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB06-015							CA504-SB13-020							CA504-SB16-020						
FIELD ID	CA504-SB06-015			CA504-SB506-015				CA504-SB13-020			CA504-SB513-020				CA504-SB16-020			CA504-SB516-020			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 14, 2013			February 14, 2013				February 15, 2013			February 15, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(a)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(b)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Chrysene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB06-015							CA504-SB13-020							CA504-SB16-020						
FIELD ID	CA504-SB06-015			CA504-SB506-015				CA504-SB13-020			CA504-SB513-020				CA504-SB16-020			CA504-SB516-020			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 14, 2013			February 14, 2013				February 15, 2013			February 15, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Gasoline Range Organics																					
Oil Range Organics	<	2.20E+01	U	<	2.10E+01	U		<	2.30E+01	U	<	2.30E+01	U		<	2.30E+01	U	<	2.30E+01	U	
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB06-015							CA504-SB13-020							CA504-SB16-020						
FIELD ID	CA504-SB06-015			CA504-SB506-015				CA504-SB13-020			CA504-SB513-020				CA504-SB16-020			CA504-SB516-020			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 14, 2013			February 14, 2013				February 15, 2013			February 15, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead																					
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB16-025							CA504-SB16-030							CA505-SB01-010						
FIELD ID	CA504-SB16-025			CA504-SB516-025				CA504-SB16-030			CA504-SB516-030				CA505-SB01-010			CA505-SB501-010			
DATE COLLECTED	February 15, 2013			February 15, 2013				February 15, 2013			February 15, 2013				April 16, 2013			April 16, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	4.80E+00	UJ	<	5.00E+00	UJ		<	6.00E+00	UJ	<	5.70E+00	UJ		<	5.50E+00	U	<	5.40E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB16-025							CA504-SB16-030							CA505-SB01-010						
FIELD ID	CA504-SB16-025			CA504-SB516-025				CA504-SB16-030			CA504-SB516-030				CA505-SB01-010			CA505-SB501-010			
DATE COLLECTED	February 15, 2013			February 15, 2013				February 15, 2013			February 15, 2013				April 16, 2013			April 16, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	4.80E+00	UJ	<	5.00E+00	UJ		<	6.00E+00	UJ	<	5.70E+00	UJ		<	5.50E+00	U	<	5.40E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	9.70E+00	UJ	<	1.00E+01	UJ		<	1.20E+01	UJ	<	1.10E+01	UJ		<	1.10E+01	U	<	1.10E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	4.80E+00	UJ	<	5.00E+00	UJ		<	6.00E+00	UJ	<	5.70E+00	UJ		<	5.50E+00	U	<	5.40E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	4.80E+00	UJ	<	5.00E+00	UJ		<	6.00E+00	UJ	<	5.70E+00	UJ		<	5.50E+00	U	<	5.40E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	4.80E+00	UJ	<	5.00E+00	UJ		<	6.00E+00	UJ	<	5.70E+00	UJ		<	5.50E+00	U	<	5.40E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB16-025							CA504-SB16-030							CA505-SB01-010						
FIELD ID	CA504-SB16-025			CA504-SB516-025				CA504-SB16-030			CA504-SB516-030				CA505-SB01-010			CA505-SB501-010			
DATE COLLECTED	February 15, 2013			February 15, 2013				February 15, 2013			February 15, 2013				April 16, 2013			April 16, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.00E+01	U	<	1.00E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB16-025							CA504-SB16-030							CA505-SB01-010						
FIELD ID	CA504-SB16-025			CA504-SB516-025				CA504-SB16-030			CA504-SB516-030				CA505-SB01-010			CA505-SB501-010			
DATE COLLECTED	February 15, 2013			February 15, 2013				February 15, 2013			February 15, 2013				April 16, 2013			April 16, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.00E+01	U	<	1.00E+01	U	
Benzo(a)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.00E+01	U	<	1.00E+01	U	
Benzo(b)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.00E+01	U	<	1.00E+01	U	
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.00E+01	U	<	1.00E+01	U	
Chrysene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.00E+01	U	<	1.00E+01	U	
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.00E+01	U	<	1.00E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.00E+01	U	<	1.00E+01	U	
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB16-025							CA504-SB16-030							CA505-SB01-010						
FIELD ID	CA504-SB16-025			CA504-SB516-025				CA504-SB16-030			CA504-SB516-030				CA505-SB01-010			CA505-SB501-010			
DATE COLLECTED	February 15, 2013			February 15, 2013				February 15, 2013			February 15, 2013				April 16, 2013			April 16, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.00E+01	U	<	1.00E+01	U	
Gasoline Range Organics															<	2.10E+01	U	<	2.10E+01	U	
Oil Range Organics	<	2.20E+01	U	<	2.20E+01	U		<	2.20E+01	U	<	2.20E+01	U								
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA504-SB16-025							CA504-SB16-030							CA505-SB01-010						
FIELD ID	CA504-SB16-025			CA504-SB516-025				CA504-SB16-030			CA504-SB516-030				CA505-SB01-010			CA505-SB501-010			
DATE COLLECTED	February 15, 2013			February 15, 2013				February 15, 2013			February 15, 2013				April 16, 2013			April 16, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead																					
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB01-015							CA505-SB01-020							CA505-SB02-005						
FIELD ID	CA505-SB01-015			CA505-SB501-015				CA505-SB01-020			CA505-SB501-020				CA505-SB02-005			CA505-SB502-005			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	5.80E+00	U	<	5.30E+00	U		<	5.70E+00	U	<	6.10E+00	U		<	5.10E+00	U	<	5.90E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB01-015							CA505-SB01-020							CA505-SB02-005						
FIELD ID	CA505-SB01-015			CA505-SB501-015				CA505-SB01-020			CA505-SB501-020				CA505-SB02-005			CA505-SB502-005			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	5.80E+00	U	<	5.30E+00	U		<	5.70E+00	U	<	6.10E+00	U		<	5.10E+00	U	<	5.90E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.20E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.20E+01	U		<	1.00E+01	U	<	1.20E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	5.80E+00	U	<	5.30E+00	U		<	5.70E+00	U	<	6.10E+00	U		<	5.10E+00	U	<	5.90E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	5.80E+00	U	<	5.30E+00	U		<	5.70E+00	U	<	6.10E+00	U		<	5.10E+00	U	<	5.90E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	5.80E+00	U	<	5.30E+00	U		<	5.70E+00	U	<	6.10E+00	U		<	5.10E+00	U	<	5.90E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB01-015							CA505-SB01-020							CA505-SB02-005						
FIELD ID	CA505-SB01-015			CA505-SB501-015				CA505-SB01-020			CA505-SB501-020				CA505-SB02-005			CA505-SB502-005			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB01-015							CA505-SB01-020							CA505-SB02-005						
FIELD ID	CA505-SB01-015			CA505-SB501-015				CA505-SB01-020			CA505-SB501-020				CA505-SB02-005			CA505-SB502-005			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	UJ	<	1.10E+01	UJ		<	1.10E+01	UJ	<	1.10E+01	UJ		1.20E+01	1.10E+01	J	7.30E+00	1.10E+01	J	<2X
Benzo(a)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		1.10E+01	1.10E+01		7.70E+00	1.10E+01	J	<2X
Benzo(b)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		1.70E+01	1.10E+01		1.10E+01	1.10E+01		<2X
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		4.30E+00	1.10E+01	J	3.80E+00	1.10E+01	J	<2X
Chrysene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		1.10E+01	1.10E+01		7.10E+00	1.10E+01	J	<2X
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		6.20E+00	1.10E+01	J	4.00E+00	1.10E+01	J	<2X
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB01-015							CA505-SB01-020							CA505-SB02-005						
FIELD ID	CA505-SB01-015			CA505-SB501-015				CA505-SB01-020			CA505-SB501-020				CA505-SB02-005			CA505-SB502-005			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Gasoline Range Organics	<	2.10E+01	U	<	2.10E+01	U		<	2.20E+01	U	<	2.20E+01	U		1.40E+01	2.10E+01	J	1.60E+01	2.10E+01	J	<2X
Oil Range Organics																					
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB01-015							CA505-SB01-020							CA505-SB02-005						
FIELD ID	CA505-SB01-015			CA505-SB501-015				CA505-SB01-020			CA505-SB501-020				CA505-SB02-005			CA505-SB502-005			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013				April 17, 2013			April 17, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead																					
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB02-010							CA505-SB03-015							CA507-SB02-010						
FIELD ID	CA505-SB02-010			CA505-SB502-010				CA505-SB03-015			CA505-SB503-015				CA507-SB02-010			CA507-SB502-010			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 18, 2013			April 18, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	5.60E+00	U	<	5.30E+00	U		<	5.50E+00	U	<	5.40E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB02-010							CA505-SB03-015							CA507-SB02-010						
FIELD ID	CA505-SB02-010			CA505-SB502-010				CA505-SB03-015			CA505-SB503-015				CA507-SB02-010			CA507-SB502-010			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 18, 2013			April 18, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	5.60E+00	U	<	5.30E+00	U		<	5.50E+00	U	<	5.40E+00	U		<	5.70E+00	U	<	5.70E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	5.60E+00	U	<	5.30E+00	U		<	5.50E+00	U	<	5.40E+00	U		<	5.70E+00	U	<	5.70E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	5.60E+00	U	<	5.30E+00	U		<	5.50E+00	U	<	5.40E+00	U		<	5.70E+00	U	<	5.70E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	5.60E+00	U	<	5.30E+00	U		<	5.50E+00	U	<	5.40E+00	U		<	5.70E+00	U	<	5.70E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB02-010							CA505-SB03-015							CA507-SB02-010						
FIELD ID	CA505-SB02-010			CA505-SB502-010				CA505-SB03-015			CA505-SB503-015				CA507-SB02-010			CA507-SB502-010			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 18, 2013			April 18, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB02-010							CA505-SB03-015							CA507-SB02-010						
FIELD ID	CA505-SB02-010			CA505-SB502-010				CA505-SB03-015			CA505-SB503-015				CA507-SB02-010			CA507-SB502-010			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 18, 2013			April 18, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	4.70E+01	1.10E+01	J	4.10E+01	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U		9.00E+01	1.10E+01		5.80E+01	1.10E+01		43
Benzo(a)pyrene	3.90E+01	1.10E+01		3.70E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U		8.90E+01	1.10E+01		6.30E+01	1.10E+01		34
Benzo(b)fluoranthene	5.40E+01	1.10E+01		5.30E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U		1.60E+02	1.10E+01		1.00E+02	1.10E+01		46
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	1.30E+01	1.10E+01		1.20E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U		4.70E+01	1.10E+01		4.10E+01	1.10E+01		14
Chrysene	5.30E+01	1.10E+01		5.00E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U		1.40E+02	1.10E+01		1.00E+02	1.10E+01		33
Dibenz(a,h)anthracene	5.10E+00	1.10E+01	J	4.80E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U		2.30E+01	1.10E+01		1.30E+01	1.10E+01		<2X
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	1.80E+01	1.10E+01		1.70E+01	1.10E+01		<2X	<	1.10E+01	U	<	1.10E+01	U		7.40E+01	1.10E+01		4.30E+01	1.10E+01		53
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB02-010							CA505-SB03-015							CA507-SB02-010						
FIELD ID	CA505-SB02-010			CA505-SB502-010				CA505-SB03-015			CA505-SB503-015				CA507-SB02-010			CA507-SB502-010			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 18, 2013			April 18, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	9.50E+02	1.10E+01		9.20E+02	1.10E+01		3	2.30E+02	1.10E+01		2.50E+02	1.10E+01		8	3.10E+00	1.10E+01	J	<	1.10E+01	U	<2X
Gasoline Range Organics	<	2.10E+01	U	<	2.10E+01	U									<	9.90E-01	U	<	1.10E+00	U	
Oil Range Organics								<	2.20E+01	U	<	2.20E+01	U		<	2.20E+01	U	<	2.20E+01	U	
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA505-SB02-010							CA505-SB03-015							CA507-SB02-010						
FIELD ID	CA505-SB02-010			CA505-SB502-010				CA505-SB03-015			CA505-SB503-015				CA507-SB02-010			CA507-SB502-010			
DATE COLLECTED	April 17, 2013			April 17, 2013				April 18, 2013			April 18, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead															4.99E+00	5.29E-01		4.90E+00	5.20E-01		2
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB05-005							CA507-SB07-005							CA507-SB08-005						
FIELD ID	CA507-SB05-005			CA507-SB505-005				CA507-SB07-005			CA507-SB507-005				CA507-SB08-005			CA507-SB508-005			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013				February 12, 2013			February 12, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	4.50E+00	U	<	5.10E+00	U		<	4.50E+00	U	<	4.80E+00	U		<	4.80E+00	U	<	5.10E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB05-005							CA507-SB07-005							CA507-SB08-005						
FIELD ID	CA507-SB05-005			CA507-SB505-005				CA507-SB07-005			CA507-SB507-005				CA507-SB08-005			CA507-SB508-005			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013				February 12, 2013			February 12, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	4.50E+00	U	<	5.10E+00	U		<	4.50E+00	U	<	4.80E+00	U		<	4.80E+00	U	<	5.10E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	8.90E+00	U	<	1.00E+01	U		<	9.00E+00	U	<	9.60E+00	U		<	9.70E+00	U	<	1.00E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	4.50E+00	U	<	5.10E+00	U		<	4.50E+00	U	<	4.80E+00	U		<	4.80E+00	U	<	5.10E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	4.50E+00	U	<	5.10E+00	U		<	4.50E+00	U	<	4.80E+00	U		<	4.80E+00	U	<	5.10E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	4.50E+00	U	<	5.10E+00	U		<	4.50E+00	U	<	4.80E+00	U		<	4.80E+00	U	<	5.10E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB05-005							CA507-SB07-005							CA507-SB08-005						
FIELD ID	CA507-SB05-005			CA507-SB505-005				CA507-SB07-005			CA507-SB507-005				CA507-SB08-005			CA507-SB508-005			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013				February 12, 2013			February 12, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB05-005							CA507-SB07-005							CA507-SB08-005						
FIELD ID	CA507-SB05-005			CA507-SB505-005				CA507-SB07-005			CA507-SB507-005				CA507-SB08-005			CA507-SB508-005			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013				February 12, 2013			February 12, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	3.70E+01	1.10E+01		5.30E+01	1.10E+01		<2X	8.20E+01	1.10E+01	J	2.80E+01	1.10E+01	J	98	6.70E+01	1.10E+01	J	3.60E+01	1.10E+01	J	<2X
Benzo(a)pyrene	5.40E+01	1.10E+01		7.00E+01	1.10E+01		26	8.10E+01	1.10E+01	J	3.80E+01	1.10E+01	J	72	8.60E+01	1.10E+01	J	4.60E+01	1.10E+01	J	>2X
Benzo(b)fluoranthene	8.60E+01	1.10E+01		1.20E+02	1.10E+01		33	1.30E+02	1.10E+01	J	6.60E+01	1.10E+01	J	65	1.30E+02	1.10E+01	J	7.50E+01	1.10E+01	J	54
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	2.60E+01	1.10E+01		3.00E+01	1.10E+01		<2X	3.70E+01	1.10E+01		1.70E+01	1.10E+01		<2X	4.60E+01	1.10E+01	J	2.00E+01	1.10E+01	J	>2X
Chrysene	4.80E+01	1.10E+01		6.00E+01	1.10E+01		22	8.70E+01	1.10E+01	J	3.70E+01	1.10E+01	J	>2X	9.80E+01	1.10E+01	J	4.90E+01	1.10E+01	J	>2X
Dibenz(a,h)anthracene	1.10E+01	1.10E+01		1.30E+01	1.10E+01		<2X	1.20E+01	1.10E+01		7.80E+00	1.10E+01	J	<2X	1.50E+01	1.10E+01		9.00E+00	1.10E+01	J	<2X
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	3.60E+01	1.10E+01		4.50E+01	1.10E+01		<2X	3.70E+01	1.10E+01		2.20E+01	1.10E+01		<2X	5.60E+01	1.10E+01	J	2.90E+01	1.10E+01	J	>2X
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB05-005							CA507-SB07-005							CA507-SB08-005						
FIELD ID	CA507-SB05-005			CA507-SB505-005				CA507-SB07-005			CA507-SB507-005				CA507-SB08-005			CA507-SB508-005			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013				February 12, 2013			February 12, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	8.50E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Gasoline Range Organics	<	1.20E+00	U	<	1.10E+00	U		<	9.90E-01	U	<	8.80E-01	U		<	1.00E+00	U	<	1.10E+00	U	
Oil Range Organics	3.10E+01	2.20E+01		1.30E+01	2.20E+01	J	<2X	3.50E+01	2.20E+01		1.90E+01	2.20E+01	J	<2X	2.40E+01	2.10E+01		2.40E+01	2.10E+01		<2X
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB05-005							CA507-SB07-005							CA507-SB08-005						
FIELD ID	CA507-SB05-005			CA507-SB505-005				CA507-SB07-005			CA507-SB507-005				CA507-SB08-005			CA507-SB508-005			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 5, 2013			February 5, 2013				February 12, 2013			February 12, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	7.04E+00	5.29E-01		6.58E+00	5.42E-01		7	7.49E+00	5.37E-01		7.70E+00	5.23E-01		3	7.11E+00	5.30E-01		6.76E+00	5.30E-01		5
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB12-010							CA507-SB13-010							CA507-SB26-010						
FIELD ID	CA507-SB12-010			CA507-SB512-010				CA507-SB13-010			CA507-SB513-010				CA507-SB26-010			CA507-SB526-010			
DATE COLLECTED	February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	5.30E+00	U	<	4.80E+00	U		<	6.30E+00	U	<	5.30E+00	U		<	4.90E+00	U	<	5.00E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB12-010							CA507-SB13-010							CA507-SB26-010						
FIELD ID	CA507-SB12-010			CA507-SB512-010				CA507-SB13-010			CA507-SB513-010				CA507-SB26-010			CA507-SB526-010			
DATE COLLECTED	February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	5.30E+00	U	<	4.80E+00	U		<	6.30E+00	U	<	5.30E+00	U		<	4.90E+00	U	<	5.00E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.10E+01	U	<	9.60E+00	U		<	1.30E+01	U	<	1.10E+01	U		<	9.80E+00	U	<	1.00E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	5.30E+00	U	<	4.80E+00	U		<	6.30E+00	U	<	5.30E+00	U		<	4.90E+00	U	<	5.00E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	5.30E+00	U	<	4.80E+00	U		<	6.30E+00	U	<	5.30E+00	U		<	4.90E+00	U	<	5.00E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	5.30E+00	U	<	4.80E+00	U		<	6.30E+00	U	<	5.30E+00	U		<	4.90E+00	U	<	5.00E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB12-010							CA507-SB13-010							CA507-SB26-010						
FIELD ID	CA507-SB12-010			CA507-SB512-010				CA507-SB13-010			CA507-SB513-010				CA507-SB26-010			CA507-SB526-010			
DATE COLLECTED	February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB12-010							CA507-SB13-010							CA507-SB26-010						
FIELD ID	CA507-SB12-010			CA507-SB512-010				CA507-SB13-010			CA507-SB513-010				CA507-SB26-010			CA507-SB526-010			
DATE COLLECTED	February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	U	<	1.10E+01	U		2.00E+01	1.10E+01		5.40E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Benzo(a)pyrene	<	1.10E+01	U	<	1.10E+01	U		2.50E+01	1.10E+01		1.00E+01	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Benzo(b)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		3.30E+01	1.10E+01		1.20E+01	1.10E+01		<2X	3.30E+00	1.10E+01	J	2.90E+00	1.10E+01	J	<2X
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		9.90E+00	1.10E+01	J	3.30E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Chrysene	<	1.10E+01	U	<	1.10E+01	U		2.10E+01	1.10E+01		4.80E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		1.40E+01	1.10E+01		6.70E+00	1.10E+01	J	<2X	4.60E+00	1.10E+01	J	4.40E+00	1.10E+01	J	<2X
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB12-010							CA507-SB13-010							CA507-SB26-010						
FIELD ID	CA507-SB12-010			CA507-SB512-010				CA507-SB13-010			CA507-SB513-010				CA507-SB26-010			CA507-SB526-010			
DATE COLLECTED	February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Gasoline Range Organics	<	1.20E+00	U	<	1.10E+00	U		<	1.00E+00	U	<	1.10E+00	U		<	9.80E-01	U	<	1.00E+00	U	
Oil Range Organics	<	2.20E+01	U	<	2.20E+01	U		1.20E+01	2.20E+01	J	1.40E+01	2.20E+01	J	<2X	<	2.30E+01	U	<	2.30E+01	U	
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB12-010							CA507-SB13-010							CA507-SB26-010						
FIELD ID	CA507-SB12-010			CA507-SB512-010				CA507-SB13-010			CA507-SB513-010				CA507-SB26-010			CA507-SB526-010			
DATE COLLECTED	February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013				February 6, 2013			February 6, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	6.38E+00	5.48E-01		6.47E+00	5.46E-01		1	6.74E+00	5.30E-01		7.16E+00	5.21E-01		6	5.36E+00	5.67E-01		5.23E+00	5.33E-01		2
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB31-010							CA507-SB34-010							CA507-SB35-004						
FIELD ID	CA507-SB31-010			CA507-SB531-005				CA507-SB34-010			CA507-SB534-010				CA507-SB35-004			CA507-SB535-004			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	4.40E+00	U	<	5.30E+00	U		<	5.20E+00	U	<	5.00E+00	U		<	5.60E+00	U	<	5.30E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB31-010							CA507-SB34-010							CA507-SB35-004						
FIELD ID	CA507-SB31-010			CA507-SB531-005				CA507-SB34-010			CA507-SB534-010				CA507-SB35-004			CA507-SB535-004			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	4.40E+00	U	<	5.30E+00	U		<	5.20E+00	U	<	5.00E+00	U		<	5.60E+00	U	<	5.30E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	8.80E+00	U	<	1.10E+01	U		<	1.00E+01	U	<	1.00E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	4.40E+00	U	<	5.30E+00	U		<	5.20E+00	U	<	5.00E+00	U		<	5.60E+00	U	<	5.30E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	4.40E+00	U	<	5.30E+00	U		<	5.20E+00	U	<	5.00E+00	U		<	5.60E+00	U	<	5.30E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	4.40E+00	U	<	5.30E+00	U		<	5.20E+00	U	<	5.00E+00	U		<	5.60E+00	U	<	5.30E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB31-010							CA507-SB34-010							CA507-SB35-004						
FIELD ID	CA507-SB31-010			CA507-SB531-005				CA507-SB34-010			CA507-SB534-010				CA507-SB35-004			CA507-SB535-004			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB31-010							CA507-SB34-010							CA507-SB35-004						
FIELD ID	CA507-SB31-010			CA507-SB531-005				CA507-SB34-010			CA507-SB534-010				CA507-SB35-004			CA507-SB535-004			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(a)pyrene	5.30E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(b)fluoranthene	3.30E+00	1.10E+01	J	<	1.10E+01	U	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Chrysene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB31-010							CA507-SB34-010							CA507-SB35-004						
FIELD ID	CA507-SB31-010			CA507-SB531-005				CA507-SB34-010			CA507-SB534-010				CA507-SB35-004			CA507-SB535-004			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Gasoline Range Organics	<	1.20E+00	U	<	1.10E+00	U		<	1.10E+00	U	<	1.10E+00	U		<	1.10E+00	U	<	1.10E+00	U	
Oil Range Organics	2.10E+01	2.20E+01	J	<	2.30E+01	U		<	2.20E+01	U	<	2.20E+01	U		<	2.30E+01	U	<	2.30E+01	U	
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB31-010							CA507-SB34-010							CA507-SB35-004						
FIELD ID	CA507-SB31-010			CA507-SB531-005				CA507-SB34-010			CA507-SB534-010				CA507-SB35-004			CA507-SB535-004			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	5.36E+00	5.17E-01		7.31E+00	5.56E-01		31	7.05E+00	5.57E-01		7.06E+00	5.39E-01		0	1.12E+01	5.54E-01		1.05E+01	5.39E-01		6
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB37-005							CA507-SB38-004							CA507-SB39-005						
FIELD ID	CA507-SB37-005			CA507-SB537-005				CA507-SB38-004			CA507-SB538-004				CA507-SB39-005			CA507-SB539-005			
DATE COLLECTED	February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	5.00E+00	U	<	5.80E+00	U		<	5.40E+00	U	<	5.90E+00	U		<	5.20E+00	U	<	5.90E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB37-005							CA507-SB38-004							CA507-SB39-005						
FIELD ID	CA507-SB37-005			CA507-SB537-005				CA507-SB38-004			CA507-SB538-004				CA507-SB39-005			CA507-SB539-005			
DATE COLLECTED	February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	5.00E+00	U	<	5.80E+00	U		<	5.40E+00	U	<	5.90E+00	U		<	5.20E+00	U	<	5.90E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.00E+01	U	<	1.20E+01	U		<	1.10E+01	U	<	1.20E+01	U		<	1.00E+01	U	<	1.20E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	5.00E+00	U	<	5.80E+00	U		<	5.40E+00	U	<	5.90E+00	U		<	5.20E+00	U	<	5.90E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	5.00E+00	U	<	5.80E+00	U		<	5.40E+00	U	<	5.90E+00	U		<	5.20E+00	U	<	5.90E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	5.00E+00	U	<	5.80E+00	U		<	5.40E+00	U	<	5.90E+00	U		<	5.20E+00	U	<	5.90E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB37-005							CA507-SB38-004							CA507-SB39-005						
FIELD ID	CA507-SB37-005			CA507-SB537-005				CA507-SB38-004			CA507-SB538-004				CA507-SB39-005			CA507-SB539-005			
DATE COLLECTED	February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB37-005							CA507-SB38-004							CA507-SB39-005						
FIELD ID	CA507-SB37-005			CA507-SB537-005				CA507-SB38-004			CA507-SB538-004				CA507-SB39-005			CA507-SB539-005			
DATE COLLECTED	February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(a)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(b)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	2.90E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Chrysene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB37-005							CA507-SB38-004							CA507-SB39-005						
FIELD ID	CA507-SB37-005			CA507-SB537-005				CA507-SB38-004			CA507-SB538-004				CA507-SB39-005			CA507-SB539-005			
DATE COLLECTED	February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Gasoline Range Organics	<	1.10E+00	U	<	1.10E+00	U		<	1.10E+00	U	<	1.20E+00	U		<	1.10E+00	U	<	1.10E+00	U	
Oil Range Organics	<	2.30E+01	U	<	2.30E+01	U		<	2.20E+01	U	<	2.20E+01	U		<	2.20E+01	U	6.60E+00	2.30E+01	J	<2X
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB37-005							CA507-SB38-004							CA507-SB39-005						
FIELD ID	CA507-SB37-005			CA507-SB537-005				CA507-SB38-004			CA507-SB538-004				CA507-SB39-005			CA507-SB539-005			
DATE COLLECTED	February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	7.03E+00	5.36E-01		7.30E+00	5.64E-01		4	1.03E+01	5.43E-01		9.98E+00	5.36E-01		3	1.03E+01	5.40E-01		1.07E+01	5.44E-01		4
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB40-010							CA507-SB42-010							CA507-SB49-004						
FIELD ID	CA507-SB40-010			CA507-SB540-010				CA507-SB42-010			CA507-SB542-010				CA507-SB49-004			CA507-SB549-004			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 6, 2013			February 6, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	5.20E+00	U	<	5.10E+00	U		<	5.40E+00	U	<	5.80E+00	U		<	4.90E+00	U	<	5.50E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB40-010							CA507-SB42-010							CA507-SB49-004						
FIELD ID	CA507-SB40-010			CA507-SB540-010				CA507-SB42-010			CA507-SB542-010				CA507-SB49-004			CA507-SB549-004			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 6, 2013			February 6, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	5.20E+00	U	<	5.10E+00	U		<	5.40E+00	U	<	5.80E+00	U		<	4.90E+00	U	<	5.50E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.00E+01	U	<	1.00E+01	U		<	1.10E+01	U	<	1.20E+01	U		<	9.80E+00	U	<	1.10E+01	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	5.20E+00	U	<	5.10E+00	U		<	5.40E+00	U	<	5.80E+00	U		<	4.90E+00	U	<	5.50E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	5.20E+00	U	<	5.10E+00	U		<	5.40E+00	U	<	5.80E+00	U		<	4.90E+00	U	<	5.50E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	5.20E+00	U	<	5.10E+00	U		<	5.40E+00	U	<	5.80E+00	U		<	4.90E+00	U	<	5.50E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB40-010							CA507-SB42-010							CA507-SB49-004						
FIELD ID	CA507-SB40-010			CA507-SB540-010				CA507-SB42-010			CA507-SB542-010				CA507-SB49-004			CA507-SB549-004			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 6, 2013			February 6, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		3.90E+00	1.10E+01	J	<	1.10E+01	U	<2X
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB40-010							CA507-SB42-010							CA507-SB49-004						
FIELD ID	CA507-SB40-010			CA507-SB540-010				CA507-SB42-010			CA507-SB542-010				CA507-SB49-004			CA507-SB549-004			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 6, 2013			February 6, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	2.80E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Benzo(a)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	5.20E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Benzo(b)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	3.70E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U	
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Chrysene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB40-010							CA507-SB42-010							CA507-SB49-004						
FIELD ID	CA507-SB40-010			CA507-SB540-010				CA507-SB42-010			CA507-SB542-010				CA507-SB49-004			CA507-SB549-004			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 6, 2013			February 6, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Gasoline Range Organics	<	1.00E+00	U	<	9.90E-01	U		<	1.00E+00	U	<	1.10E+00	U		<	2.10E+00	U	<	1.90E+00	U	
Oil Range Organics	<	2.30E+01	U	<	2.30E+01	U		<	2.20E+01	U	<	2.20E+01	U		1.10E+01	2.20E+01	J	<	2.20E+01	U	
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB40-010							CA507-SB42-010							CA507-SB49-004						
FIELD ID	CA507-SB40-010			CA507-SB540-010				CA507-SB42-010			CA507-SB542-010				CA507-SB49-004			CA507-SB549-004			
DATE COLLECTED	February 5, 2013			February 5, 2013				February 6, 2013			February 6, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	6.41E+00	5.64E-01		6.18E+00	5.12E-01		4	5.31E+00	5.46E-01		5.49E+00	5.51E-01		3	9.36E+00	5.05E-01		8.90E+00	5.35E-01		5
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB56-004							CA507-SB57-004							CA507-SB64-010						
FIELD ID	CA507-SB56-004			CA507-SB556-004				CA507-SB57-004			CA507-SB557-004				CA507-SB64-010			CA507-SB564-010			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	5.20E+00	U	<	5.20E+00	U		<	5.90E+00	U	<	5.90E+00	U		<	5.10E+00	U	<	4.70E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB56-004							CA507-SB57-004							CA507-SB64-010						
FIELD ID	CA507-SB56-004			CA507-SB556-004				CA507-SB57-004			CA507-SB557-004				CA507-SB64-010			CA507-SB564-010			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	5.20E+00	U	<	5.20E+00	U		<	5.90E+00	U	<	5.90E+00	U		<	5.10E+00	U	<	4.70E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.00E+01	U	<	1.00E+01	U		<	1.20E+01	U	<	1.20E+01	U		<	1.00E+01	U	<	9.30E+00	U	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	5.20E+00	U	<	5.20E+00	U		<	5.90E+00	U	<	5.90E+00	U		<	5.10E+00	U	<	4.70E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	5.20E+00	U	<	5.20E+00	U		<	5.90E+00	U	<	5.90E+00	U		<	5.10E+00	U	<	4.70E+00	U	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	5.20E+00	U	<	5.20E+00	U		<	5.90E+00	U	<	5.90E+00	U		<	5.10E+00	U	<	4.70E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB56-004							CA507-SB57-004							CA507-SB64-010						
FIELD ID	CA507-SB56-004			CA507-SB556-004				CA507-SB57-004			CA507-SB557-004				CA507-SB64-010			CA507-SB564-010			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB56-004							CA507-SB57-004							CA507-SB64-010						
FIELD ID	CA507-SB56-004			CA507-SB556-004				CA507-SB57-004			CA507-SB557-004				CA507-SB64-010			CA507-SB564-010			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	U	3.80E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(a)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(b)fluoranthene	<	1.10E+01	U	3.90E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Chrysene	<	1.10E+01	U	2.80E+00	1.10E+01	J	<2X	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB56-004							CA507-SB57-004							CA507-SB64-010						
FIELD ID	CA507-SB56-004			CA507-SB556-004				CA507-SB57-004			CA507-SB557-004				CA507-SB64-010			CA507-SB564-010			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Gasoline Range Organics	<	1.10E+00	U	<	1.00E+00	U		<	1.20E+00	U	<	1.20E+00	U		<	9.40E-01	U	<	9.60E-01	U	
Oil Range Organics	<	2.20E+01	U	9.10E+00	2.20E+01	J	<2X	<	2.30E+01	U	<	2.20E+01	U		<	2.20E+01	U	<	2.20E+01	U	
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB56-004							CA507-SB57-004							CA507-SB64-010						
FIELD ID	CA507-SB56-004			CA507-SB556-004				CA507-SB57-004			CA507-SB557-004				CA507-SB64-010			CA507-SB564-010			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 7, 2013			February 7, 2013				February 8, 2013			February 8, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	1.07E+01	5.56E-01		1.05E+01	5.53E-01		2	1.07E+01	5.52E-01		1.06E+01	5.59E-01		1	6.86E+00	5.52E-01		6.19E+00	5.51E-01		10
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB67-010							CA507-SB74-010							CA507-SS04-001						
FIELD ID	CA507-SB67-010			CA507-SB567-010				CA507-SB74-010			CA507-SB574-010				CA507-SS04-001			CA507-SS504-001			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 14, 2013			February 14, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane																					
1,1,1-Trichloroethane																					
1,1,2,2-Tetrachloroethane																					
1,1,2-Trichloroethane																					
1,1-Dichloroethane																					
1,1-Dichloroethene																					
1,1-Dichloropropene																					
1,2,3-Trichlorobenzene																					
1,2,3-Trichloropropane																					
1,2,4-Trichlorobenzene																					
1,2,4-Trimethylbenzene																					
1,2-Dibromo-3-Chloropropane																					
1,2-Dibromoethane (Ethylene Dibromide)																					
1,2-Dichlorobenzene																					
1,2-Dichloroethane																					
1,2-Dichloroethene (cis)																					
1,2-Dichloroethene (trans)																					
1,2-Dichloropropane																					
1,3,5-Trimethylbenzene (Mesitylene)																					
1,3-Dichlorobenzene																					
1,3-Dichloropropane																					
1,4-Dichlorobenzene																					
2,2-Dichloropropane																					
2-Chlorotoluene																					
2-Hexanone																					
4-Chlorotoluene																					
4-Methyl-2-Pentanone																					
Acetone																					
Benzene	<	5.50E+00	U	<	6.00E+00	U		<	5.00E+00	U	<	4.90E+00	U		<	6.50E+00	U	<	5.70E+00	U	
Bromobenzene																					
Bromochloromethane																					
Bromodichloromethane																					
Bromoform																					
Bromomethane																					
Carbon Disulfide																					
Carbon Tetrachloride																					
Chlorobenzene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB67-010							CA507-SB74-010							CA507-SS04-001						
FIELD ID	CA507-SB67-010			CA507-SB567-010				CA507-SB74-010			CA507-SB574-010				CA507-SS04-001			CA507-SS504-001			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 14, 2013			February 14, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane																					
Chloroform																					
Chloromethane																					
cis-1,3-Dichloropropene																					
Dibromochloromethane																					
Dibromomethane																					
Dichlorodifluoromethane																					
Ethylbenzene	<	5.50E+00	U	<	6.00E+00	U		<	5.00E+00	U	<	4.90E+00	U		<	6.50E+00	U	<	5.70E+00	U	
Hexachlorobutadiene																					
Isopropylbenzene (Cumene)																					
m,p-Xylene (sum of isomers)	<	1.10E+01	U	<	1.20E+01	U		<	1.00E+01	U	<	9.80E+00	U		<	1.30E+01	U	7.30E+00	1.10E+01	J	
Methyl Ethyl Ketone (2-Butanone)																					
Methylene Chloride																					
Naphthalene	<	5.50E+00	U	<	6.00E+00	U		<	5.00E+00	U	<	4.90E+00	U		<	6.50E+00	U	<	5.70E+00	U	
n-Butylbenzene																					
n-Propylbenzene																					
o-Xylene (1,2-Dimethylbenzene)	<	5.50E+00	U	<	6.00E+00	U		<	5.00E+00	U	<	4.90E+00	U		<	6.50E+00	U	4.90E+00	5.70E+00	J	
p-Cymene (p-Isopropyltoluene)																					
sec-Butylbenzene																					
Styrene																					
t-Butylbenzene																					
Tetrachloroethene																					
Toluene	<	5.50E+00	U	<	6.00E+00	U		<	5.00E+00	U	<	4.90E+00	U		<	6.50E+00	U	<	5.70E+00	U	
trans-1,3-Dichloropropene																					
Trichloroethene																					
Trichlorofluoromethane																					
Vinyl Chloride																					
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene																					
1,2-Dichlorobenzene																					
1,3-Dichlorobenzene																					
1,4-Dichlorobenzene																					
2,4,5-Trichlorophenol																					
2,4,6-Trichlorophenol																					
2,4-Dichlorophenol																					
2,4-Dimethylphenol																					
2,4-Dinitrophenol																					
2,4-Dinitrotoluene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB67-010							CA507-SB74-010							CA507-SS04-001						
FIELD ID	CA507-SB67-010			CA507-SB567-010				CA507-SB74-010			CA507-SB574-010				CA507-SS04-001			CA507-SS504-001			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 14, 2013			February 14, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene																					
2-Chloronaphthalene																					
2-Chlorophenol																					
2-Methylphenol (o-cresol)																					
2-Nitroaniline																					
2-Nitrophenol																					
3-Nitroaniline																					
4,6-Dinitro-2-methylphenol																					
4-Bromophenyl-phenylether																					
4-Chloro-3-methylphenol																					
4-Chlorophenyl-phenylether																					
4-Methylphenol (p-cresol)																					
4-Nitroaniline																					
4-Nitrophenol																					
Benzyl Alcohol																					
bis(2-Chloroethoxy)methane																					
bis(2-Chloroethyl)ether																					
bis(2-Ethylhexyl)phthalate																					
Butylbenzylphthalate																					
Carbazole																					
Dibenzofuran																					
Diethylphthalate																					
Dimethylphthalate																					
Di-n-butylphthalate																					
Di-n-octylphthalate																					
Hexachlorobenzene																					
Hexachlorobutadiene																					
Hexachloroethane																					
Isophorone																					
Nitrobenzene																					
N-Nitrosodimethylamine																					
N-Nitroso-di-n-propylamine																					
N-Nitrosodiphenylamine																					
Pentachlorophenol																					
Phenol																					
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.10E+01	U	<	1.10E+01	U		3.60E+00	1.10E+01	J	<	1.10E+01	U	<2X	6.50E+00	2.10E+01	J	5.40E+00	2.10E+01	J	<2X
Acenaphthene																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB67-010							CA507-SB74-010							CA507-SS04-001						
FIELD ID	CA507-SB67-010			CA507-SB567-010				CA507-SB74-010			CA507-SB574-010				CA507-SS04-001			CA507-SS504-001			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 14, 2013			February 14, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene																					
Anthracene																					
Benzo(a)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		1.80E+02	2.10E+01	J	1.00E+02	2.10E+01	J	57
Benzo(a)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		2.60E+02	2.10E+01		1.60E+02	2.10E+01		48
Benzo(b)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		5.10E+02	2.10E+01	J	2.90E+02	2.10E+01	J	55
Benzo(g,h,i)perylene																					
Benzo(k)fluoranthene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		1.40E+02	2.10E+01	J	8.70E+01	2.10E+01	J	>2X
Chrysene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		2.60E+02	2.10E+01	J	1.50E+02	2.10E+01	J	54
Dibenz(a,h)anthracene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		4.90E+01	2.10E+01		3.50E+01	2.10E+01		33
Fluoranthene																					
Fluorene																					
Indeno(1,2,3-cd)pyrene	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		1.90E+02	2.10E+01		1.40E+02	2.10E+01		30
Naphthalene																					
Phenanthrene																					
Pyrene																					
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD																					
4,4-DDE																					
4,4-DDT																					
Aldrin																					
alpha-BHC																					
alpha-Chlordane																					
beta-BHC																					
delta-BHC																					
Dieldrin																					
Endosulfan I																					
Endosulfan II																					
Endosulfan sulfate																					
Endrin																					
Endrin aldehyde																					
Endrin ketone																					
gamma-BHC (Lindane)																					
gamma-Chlordane																					
Heptachlor																					
Heptachlor epoxide																					
Methoxychlor																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB67-010							CA507-SB74-010							CA507-SS04-001						
FIELD ID	CA507-SB67-010			CA507-SB567-010				CA507-SB74-010			CA507-SB574-010				CA507-SS04-001			CA507-SS504-001			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 14, 2013			February 14, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD																					
1,2,3,4,6,7,8-HpCDF																					
1,2,3,4,7,8,9-HpCDF																					
1,2,3,4,7,8-HxCDD																					
1,2,3,4,7,8-HxCDF																					
1,2,3,6,7,8-HxCDD																					
1,2,3,6,7,8-HxCDF																					
1,2,3,7,8,9-HxCDD																					
1,2,3,7,8,9-HxCDF																					
1,2,3,7,8-PeCDD																					
1,2,3,7,8-PeCDF																					
2,3,4,6,7,8-HxCDF																					
2,3,4,7,8-PeCDF																					
2,3,7,8-TCDD																					
2,3,7,8-TCDF																					
OCDD																					
OCDF																					
Dioxins/Furans																					
Heptachlorinated Dibenzofurans, (total)																					
Heptachlorinated Dibenzo-p-dioxins, (total)																					
Hexachlorinated Dibenzofurans, (total)																					
Hexachlorinated Dibenzo-p-dioxins, (total)																					
Pentachlorinated Dibenzofurans, (total)																					
Pentachlorinated Dibenzo-p-dioxins,(total)																					
Tetrachlorinated Dibenzofurans, (total)																					
Tetrachlorinated Dibenzo-p-dioxins, (total																					
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U		6.50E+00	1.00E+01	J	1.70E+01	1.10E+01		<2X
Gasoline Range Organics	<	1.10E+00	U	<	1.10E+00	U		<	1.00E+00	U	<	1.10E+00	U		<	1.10E+00	U	<	1.10E+00	U	
Oil Range Organics	<	2.20E+01	U	<	2.20E+01	U		1.60E+01	2.20E+01	J	1.80E+01	2.30E+01	J	<2X	5.40E+01	2.10E+01		7.90E+01	2.10E+01		38
METALS (mg/kg)																					
Arsenic																					
Barium																					
Cadmium																					
Chromium																					

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SB67-010							CA507-SB74-010							CA507-SS04-001						
FIELD ID	CA507-SB67-010			CA507-SB567-010				CA507-SB74-010			CA507-SB574-010				CA507-SS04-001			CA507-SS504-001			
DATE COLLECTED	February 8, 2013			February 8, 2013				February 14, 2013			February 14, 2013				February 4, 2013			February 4, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	4.75E+00	5.28E-01		5.06E+00	5.43E-01		6	6.65E+00	5.62E-01		6.52E+00	5.42E-01		2	1.09E+01	5.13E-01	J	1.86E+01	5.21E-01	J	52
Selenium																					
Silver																					

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SS22-001							CA507-SS24-001							CA508-SB01-004						
FIELD ID	CA507-SS22-001			CA507-SS522-001				CA507-SS24-001			CA507-SS524-001				CA508-SB01-004			CA508-SB501-004			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 13, 2013			February 13, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane															<	5.30E+00	U	<	5.50E+00	U	
1,1,1-Trichloroethane															<	5.30E+00	U	<	5.50E+00	U	
1,1,2,2-Tetrachloroethane															<	5.30E+00	U	<	5.50E+00	U	
1,1,2-Trichloroethane															<	5.30E+00	U	<	5.50E+00	U	
1,1-Dichloroethane															<	5.30E+00	U	<	5.50E+00	U	
1,1-Dichloroethene															<	5.30E+00	U	<	5.50E+00	U	
1,1-Dichloropropene															<	5.30E+00	U	<	5.50E+00	U	
1,2,3-Trichlorobenzene															<	5.30E+00	U	<	5.50E+00	U	
1,2,3-Trichloropropane															<	5.30E+00	U	<	5.50E+00	U	
1,2,4-Trichlorobenzene															<	5.30E+00	U	<	5.50E+00	U	
1,2,4-Trimethylbenzene															<	5.30E+00	U	<	5.50E+00	U	
1,2-Dibromo-3-Chloropropane															<	1.10E+01	U	<	1.10E+01	U	
1,2-Dibromoethane (Ethylene Dibromide)															<	5.30E+00	U	<	5.50E+00	U	
1,2-Dichlorobenzene															<	5.30E+00	U	<	5.50E+00	U	
1,2-Dichloroethane															<	5.30E+00	U	<	5.50E+00	U	
1,2-Dichloroethene (cis)															<	5.30E+00	U	<	5.50E+00	U	
1,2-Dichloroethene (trans)															<	5.30E+00	U	<	5.50E+00	U	
1,2-Dichloropropane															<	5.30E+00	U	<	5.50E+00	U	
1,3,5-Trimethylbenzene (Mesitylene)															<	5.30E+00	U	<	5.50E+00	U	
1,3-Dichlorobenzene															<	5.30E+00	U	<	5.50E+00	U	
1,3-Dichloropropane															<	5.30E+00	U	<	5.50E+00	U	
1,4-Dichlorobenzene															<	5.30E+00	U	<	5.50E+00	U	
2,2-Dichloropropane															<	5.30E+00	U	<	5.50E+00	U	
2-Chlorotoluene															<	5.30E+00	U	<	5.50E+00	U	
2-Hexanone															<	2.10E+01	U	<	2.20E+01	U	
4-Chlorotoluene															<	5.30E+00	U	<	5.50E+00	U	
4-Methyl-2-Pentanone															<	2.10E+01	U	<	2.20E+01	U	
Acetone															<	1.10E+01	U	<	1.10E+01	U	
Benzene	<	4.90E+00	U	<	4.60E+00	U		<	5.40E+00	U	<	5.70E+00	U		<	5.30E+00	U	<	5.50E+00	U	
Bromobenzene															<	5.30E+00	U	<	5.50E+00	U	
Bromochloromethane															<	5.30E+00	U	<	5.50E+00	U	
Bromodichloromethane															<	5.30E+00	U	<	5.50E+00	U	
Bromoform															<	5.30E+00	U	<	5.50E+00	U	
Bromomethane															<	1.10E+01	U	<	1.10E+01	U	
Carbon Disulfide															<	5.30E+00	U	<	5.50E+00	U	
Carbon Tetrachloride															<	5.30E+00	U	<	5.50E+00	U	
Chlorobenzene															<	5.30E+00	U	<	5.50E+00	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SS22-001							CA507-SS24-001							CA508-SB01-004						
FIELD ID	CA507-SS22-001			CA507-SS522-001				CA507-SS24-001			CA507-SS524-001				CA508-SB01-004			CA508-SB501-004			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 13, 2013			February 13, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane															<	5.30E+00	U	<	5.50E+00	U	
Chloroform															<	5.30E+00	U	<	5.50E+00	U	
Chloromethane															<	1.10E+01	U	<	1.10E+01	U	
cis-1,3-Dichloropropene															<	5.30E+00	U	<	5.50E+00	U	
Dibromochloromethane															<	5.30E+00	U	<	5.50E+00	U	
Dibromomethane															<	5.30E+00	U	<	5.50E+00	U	
Dichlorodifluoromethane															<	1.10E+01	U	<	1.10E+01	U	
Ethylbenzene	<	4.90E+00	U	<	4.60E+00	U		<	5.40E+00	U	<	5.70E+00	U		<	5.30E+00	U	<	5.50E+00	U	
Hexachlorobutadiene															<	5.30E+00	U	<	5.50E+00	U	
Isopropylbenzene (Cumene)															<	5.30E+00	U	<	5.50E+00	U	
m,p-Xylene (sum of isomers)	<	9.70E+00	U	<	9.30E+00	U		<	1.10E+01	U	<	1.10E+01	U		<	1.10E+01	U	<	1.10E+01	U	
Methyl Ethyl Ketone (2-Butanone)															<	1.10E+01	U	<	1.10E+01	U	
Methylene Chloride															<	1.10E+01	U	<	1.10E+01	U	
Naphthalene	<	4.90E+00	U	<	4.60E+00	U		<	5.40E+00	U	<	5.70E+00	U		<	5.30E+00	U	<	5.50E+00	U	
n-Butylbenzene															<	5.30E+00	U	<	5.50E+00	U	
n-Propylbenzene															<	5.30E+00	U	<	5.50E+00	U	
o-Xylene (1,2-Dimethylbenzene)	<	4.90E+00	U	<	4.60E+00	U		<	5.40E+00	U	<	5.70E+00	U		<	5.30E+00	U	<	5.50E+00	U	
p-Cymene (p-Isopropyltoluene)															<	5.30E+00	U	<	5.50E+00	U	
sec-Butylbenzene															<	5.30E+00	U	<	5.50E+00	U	
Styrene															<	5.30E+00	U	<	5.50E+00	U	
t-Butylbenzene															<	5.30E+00	U	<	5.50E+00	U	
Tetrachloroethene															<	5.30E+00	U	<	5.50E+00	U	
Toluene	<	4.90E+00	U	<	4.60E+00	U		<	5.40E+00	U	<	5.70E+00	U		<	5.30E+00	U	<	5.50E+00	U	
trans-1,3-Dichloropropene															<	5.30E+00	U	<	5.50E+00	U	
Trichloroethene															<	5.30E+00	U	<	5.50E+00	U	
Trichlorofluoromethane															<	5.30E+00	U	<	5.50E+00	U	
Vinyl Chloride															<	5.30E+00	U	<	5.50E+00	U	
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene															<	6.90E+02	U	<	3.50E+02	U	
1,2-Dichlorobenzene															<	6.90E+02	U	<	3.50E+02	U	
1,3-Dichlorobenzene															<	6.90E+02	U	<	3.50E+02	U	
1,4-Dichlorobenzene															<	6.90E+02	U	<	3.50E+02	U	
2,4,5-Trichlorophenol															<	6.90E+02	U	<	3.50E+02	U	
2,4,6-Trichlorophenol															<	6.90E+02	U	<	3.50E+02	U	
2,4-Dichlorophenol															<	6.90E+02	U	<	3.50E+02	U	
2,4-Dimethylphenol															<	6.90E+02	U	<	3.50E+02	U	
2,4-Dinitrophenol															<	1.40E+03	U	<	7.00E+02	U	
2,4-Dinitrotoluene															<	6.90E+02	U	<	3.50E+02	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SS22-001							CA507-SS24-001							CA508-SB01-004						
FIELD ID	CA507-SS22-001			CA507-SS522-001				CA507-SS24-001			CA507-SS524-001				CA508-SB01-004			CA508-SB501-004			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 13, 2013			February 13, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene															<	6.90E+02	U	<	3.50E+02	U	
2-Chloronaphthalene															<	6.90E+02	U	<	3.50E+02	U	
2-Chlorophenol															<	6.90E+02	U	<	3.50E+02	U	
2-Methylphenol (o-cresol)															<	6.90E+02	U	<	3.50E+02	U	
2-Nitroaniline															<	6.90E+02	U	<	3.50E+02	U	
2-Nitrophenol															<	6.90E+02	U	<	3.50E+02	U	
3-Nitroaniline															<	6.90E+02	U	<	3.50E+02	U	
4,6-Dinitro-2-methylphenol															<	1.40E+03	U	<	7.00E+02	U	
4-Bromophenyl-phenylether															<	6.90E+02	U	<	3.50E+02	U	
4-Chloro-3-methylphenol															<	6.90E+02	U	<	3.50E+02	U	
4-Chlorophenyl-phenylether															<	6.90E+02	U	<	3.50E+02	U	
4-Methylphenol (p-cresol)															<	6.90E+02	U	<	3.50E+02	U	
4-Nitroaniline															<	6.90E+02	U	<	3.50E+02	U	
4-Nitrophenol															<	1.40E+03	U	<	7.00E+02	U	
Benzyl Alcohol															<	2.70E+03	U	<	1.40E+03	U	
bis(2-Chloroethoxy)methane															<	6.90E+02	U	<	3.50E+02	U	
bis(2-Chloroethyl)ether															<	6.90E+02	U	<	3.50E+02	U	
bis(2-Ethylhexyl)phthalate															<	6.90E+02	U	<	3.50E+02	U	
Butylbenzylphthalate															<	6.90E+02	U	<	3.50E+02	U	
Carbazole															<	6.90E+02	U	<	3.50E+02	U	
Dibenzofuran															<	6.90E+02	U	<	3.50E+02	U	
Diethylphthalate															<	6.90E+02	U	<	3.50E+02	U	
Dimethylphthalate															<	6.90E+02	U	<	3.50E+02	U	
Di-n-butylphthalate															<	6.90E+02	U	<	3.50E+02	U	
Di-n-octylphthalate															<	6.90E+02	U	<	3.50E+02	U	
Hexachlorobenzene															<	6.90E+02	U	<	3.50E+02	U	
Hexachlorobutadiene															<	6.90E+02	U	<	3.50E+02	U	
Hexachloroethane															<	6.90E+02	U	<	3.50E+02	U	
Isophorone															<	6.90E+02	U	<	3.50E+02	U	
Nitrobenzene															<	6.90E+02	U	<	3.50E+02	U	
N-Nitrosodimethylamine															<	6.90E+02	U	<	3.50E+02	U	
N-Nitroso-di-n-propylamine															<	6.90E+02	U	<	3.50E+02	U	
N-Nitrosodiphenylamine															<	6.90E+02	U	<	3.50E+02	U	
Pentachlorophenol															<	1.40E+03	U	<	7.00E+02	U	
Phenol															<	6.90E+02	U	<	3.50E+02	U	
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	1.00E+01	U	<	1.00E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	2.10E+01	U	<	1.10E+01	U	
Acenaphthene															<	2.10E+01	U	<	1.10E+01	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SS22-001							CA507-SS24-001							CA508-SB01-004						
FIELD ID	CA507-SS22-001			CA507-SS522-001				CA507-SS24-001			CA507-SS524-001				CA508-SB01-004			CA508-SB501-004			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 13, 2013			February 13, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene															<	2.10E+01	U	<	1.10E+01	U	
Anthracene															<	2.10E+01	U	<	1.10E+01	U	
Benzo(a)anthracene	<	1.00E+01	U	1.80E+01	1.00E+01		<2X	5.10E+00	1.10E+01	J	2.00E+01	1.10E+01		<2X	<	2.10E+01	U	<	1.10E+01	U	
Benzo(a)pyrene	<	1.00E+01	U	1.90E+01	1.00E+01		<2X	7.20E+00	1.10E+01	J	2.30E+01	1.10E+01		<2X	9.50E+00	2.10E+01	J	4.80E+00	1.10E+01	J	<2X
Benzo(b)fluoranthene	<	1.00E+01	UJ	3.00E+01	1.00E+01	J	<2X	1.20E+01	1.10E+01		3.40E+01	1.10E+01		<2X	6.30E+00	2.10E+01	J	3.60E+00	1.10E+01	J	<2X
Benzo(g,h,i)perylene															7.00E+00	2.10E+01	J	5.80E+00	1.10E+01	J	<2X
Benzo(k)fluoranthene	<	1.00E+01	U	9.30E+00	1.00E+01	J	<2X	3.10E+00	1.10E+01	J	1.00E+01	1.10E+01	J	<2X	<	2.10E+01	U	<	1.10E+01	U	
Chrysene	<	1.00E+01	UJ	2.20E+01	1.00E+01	J	<2X	3.70E+00	1.10E+01	J	1.80E+01	1.10E+01		<2X	<	2.10E+01	U	<	1.10E+01	U	
Dibenz(a,h)anthracene	<	1.00E+01	U	3.10E+00	1.00E+01	J	<2X	<	1.10E+01	U	5.40E+00	1.10E+01	J	<2X	<	2.10E+01	U	<	1.10E+01	U	
Fluoranthene															6.60E+00	2.10E+01	J	2.70E+00	1.10E+01	J	<2X
Fluorene															<	2.10E+01	U	<	1.10E+01	U	
Indeno(1,2,3-cd)pyrene	<	1.00E+01	U	1.30E+01	1.00E+01		<2X	5.80E+00	1.10E+01	J	1.40E+01	1.10E+01		<2X	<	2.10E+01	U	5.30E+00	1.10E+01	J	<2X
Naphthalene															<	2.10E+01	U	<	1.10E+01	U	
Phenanthrene															<	2.10E+01	U	<	1.10E+01	U	
Pyrene															<	2.10E+01	U	<	1.10E+01	U	
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD															<	4.20E+00	U	<	4.20E+00	U	
4,4-DDE															<	4.20E+00	U	<	4.20E+00	U	
4,4-DDT															<	4.20E+00	U	<	4.20E+00	U	
Aldrin															<	2.10E+00	U	<	2.10E+00	U	
alpha-BHC															<	2.10E+00	U	<	2.10E+00	U	
alpha-Chlordane															<	2.10E+00	U	<	2.10E+00	U	
beta-BHC															<	2.10E+00	U	<	2.10E+00	U	
delta-BHC															<	2.10E+00	U	<	2.10E+00	U	
Dieldrin															<	4.20E+00	U	<	4.20E+00	U	
Endosulfan I															<	2.10E+00	U	<	2.10E+00	U	
Endosulfan II															<	4.20E+00	U	<	4.20E+00	U	
Endosulfan sulfate															<	4.20E+00	U	<	4.20E+00	U	
Endrin															<	4.20E+00	U	<	4.20E+00	U	
Endrin aldehyde															<	4.20E+00	U	<	4.20E+00	U	
Endrin ketone															<	4.20E+00	U	<	4.20E+00	U	
gamma-BHC (Lindane)															<	2.10E+00	U	<	2.10E+00	U	
gamma-Chlordane															<	2.10E+00	U	<	2.10E+00	U	
Heptachlor															<	2.10E+00	U	<	2.10E+00	U	
Heptachlor epoxide															2.50E+00	2.10E+00		<	2.10E+00	U	<2X
Methoxychlor															<	2.10E+01	U	<	2.10E+01	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SS22-001							CA507-SS24-001							CA508-SB01-004						
FIELD ID	CA507-SS22-001			CA507-SS522-001				CA507-SS24-001			CA507-SS524-001				CA508-SB01-004			CA508-SB501-004			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 13, 2013			February 13, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD															1.73E+02	2.61E+00		2.22E+02	2.62E+00	J	25
1,2,3,4,6,7,8-HpCDF															4.90E+00	2.61E+00	J	5.99E+00	2.62E+00	J	<2X
1,2,3,4,7,8,9-HpCDF															<	2.61E+00	UJ	<	2.62E+00	U	
1,2,3,4,7,8-HxCDD															2.29E+00	2.61E+00	J	1.39E+00	2.62E+00	J	<2X
1,2,3,4,7,8-HxCDF															1.22E+00	2.61E+00	J	1.65E+00	2.62E+00	J	<2X
1,2,3,6,7,8-HxCDD															5.67E+00	2.61E+00		7.15E+00	2.62E+00		<2X
1,2,3,6,7,8-HxCDF															7.85E-01	2.61E+00	J	5.29E-01	2.62E+00	J	<2X
1,2,3,7,8,9-HxCDD															6.01E+00	2.61E+00		6.93E+00	2.62E+00		<2X
1,2,3,7,8,9-HxCDF															<	2.61E+00	U	<	2.62E+00	U	
1,2,3,7,8-PeCDD															1.26E+00	2.61E+00	J	1.45E+00	2.62E+00	J	<2X
1,2,3,7,8-PeCDF															<	2.61E+00	U	<	2.62E+00	U	
2,3,4,6,7,8-HxCDF															1.10E+00	2.61E+00	J	1.29E+00	2.62E+00	J	<2X
2,3,4,7,8-PeCDF															6.62E-01	2.61E+00	J	6.53E-01	2.62E+00	J	<2X
2,3,7,8-TCDD															<	5.22E-01	U	<	5.24E-01	U	
2,3,7,8-TCDF															<	5.22E-01	U	<	5.24E-01	U	
OCDD															1.21E+03	5.22E+00	J	1.96E+03	5.24E+00	J	47
OCDF															7.15E+00	5.22E+00		7.71E+00	5.24E+00	J	<2X
Dioxins/Furans															5.31E+00	5.31E+00		6.41E+00	6.41E+00		<2X
Heptachlorinated Dibenzofurans, (total)															<	2.61E+00	U	5.99E+00	2.62E+00		<2X
Heptachlorinated Dibenzo-p-dioxins, (total)															3.46E+02	2.61E+00		4.42E+02	2.62E+00		24
Hexachlorinated Dibenzofurans, (total)															1.04E+01	2.61E+00		1.10E+01	2.62E+00		6
Hexachlorinated Dibenzo-p-dioxins, (total)															5.46E+01	2.61E+00		5.88E+01	2.62E+00		7
Pentachlorinated Dibenzofurans, (total)															9.27E+00	2.61E+00		9.79E+00	2.62E+00		5
Pentachlorinated Dibenzo-p-dioxins,(total)															3.08E+00	2.61E+00		6.65E+00	2.62E+00		<2X
Tetrachlorinated Dibenzofurans, (total)															2.07E+00	5.62E-01		3.30E+00	5.24E-01		46
Tetrachlorinated Dibenzo-p-dioxins, (total															<	5.22E-01	U	<	5.24E-01	U	
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	<	1.00E+01	U	<	1.00E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.00E+01	U	4.30E+00	1.10E+01	J	<2X
Gasoline Range Organics	<	9.60E-01	U	<	9.40E-01	U		<	1.10E+00	U	<	9.60E-01	U		<	1.10E+00	U	<	1.10E+00	U	
Oil Range Organics	<	2.10E+01	U	<	2.10E+01	U		<	2.10E+01	U	<	2.10E+01	U		2.50E+01	2.10E+01		4.40E+01	2.10E+01		<2X
METALS (mg/kg)																					
Arsenic															3.37E+00	5.08E-01		3.29E+00	5.13E-01		2
Barium															1.05E+02	5.08E-01		1.03E+02	5.13E-01		2
Cadmium															1.57E+00	5.08E-01		1.03E+00	5.13E-01		<2X
Chromium															1.13E+01	5.08E-01		1.23E+01	5.13E-01		8

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA507-SS22-001							CA507-SS24-001							CA508-SB01-004						
FIELD ID	CA507-SS22-001			CA507-SS522-001				CA507-SS24-001			CA507-SS524-001				CA508-SB01-004			CA508-SB501-004			
DATE COLLECTED	February 13, 2013			February 13, 2013				February 13, 2013			February 13, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	2.41E+01	5.17E-01	J	5.89E+00	5.22E-01	J	121	1.19E+02	5.32E-01		1.17E+02	5.33E-01		2	1.70E+01	5.08E-01		1.43E+01	5.13E-01		17
Selenium															7.58E-02	5.08E-01	J	7.57E-02	5.13E-01	J	<2X
Silver															1.54E-01	5.08E-01	J	1.55E-01	5.13E-01	J	<2X

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA508-SS01-001							CA508-SS03-001							CA508-SS05-001						
FIELD ID	CA508-SS01-001			CA508-SS501-001				CA508-SS03-001			CA508-SS503-001				CA508-SS05-001			CA508-SS505-001			
DATE COLLECTED	January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
VOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,1,1,2-Tetrachloroethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,1,1-Trichloroethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,1,2,2-Tetrachloroethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,1,2-Trichloroethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,1-Dichloroethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,1-Dichloroethene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,1-Dichloropropene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,2,3-Trichlorobenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,2,3-Trichloropropane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,2,4-Trichlorobenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,2,4-Trimethylbenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,2-Dibromo-3-Chloropropane	<	1.30E+01	U	<	1.30E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.50E+01	U	
1,2-Dibromoethane (Ethylene Dibromide)	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,2-Dichlorobenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,2-Dichloroethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,2-Dichloroethene (cis)	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,2-Dichloroethene (trans)	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,2-Dichloropropane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,3,5-Trimethylbenzene (Mesitylene)	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,3-Dichlorobenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,3-Dichloropropane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
1,4-Dichlorobenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
2,2-Dichloropropane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
2-Chlorotoluene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
2-Hexanone	<	2.60E+01	U	<	2.50E+01	U		<	2.10E+01	U	<	2.20E+01	U		<	2.50E+01	U	<	3.00E+01	U	
4-Chlorotoluene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
4-Methyl-2-Pentanone	<	2.60E+01	U	<	2.50E+01	U		<	2.10E+01	U	<	2.20E+01	U		<	2.50E+01	U	<	3.00E+01	U	
Acetone	<	1.30E+01	U	<	1.30E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.50E+01	U	
Benzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Bromobenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Bromochloromethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Bromodichloromethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Bromoform	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Bromomethane	<	1.30E+01	U	<	1.30E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.50E+01	U	
Carbon Disulfide	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Carbon Tetrachloride	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Chlorobenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA508-SS01-001							CA508-SS03-001							CA508-SS05-001						
FIELD ID	CA508-SS01-001			CA508-SS501-001				CA508-SS03-001			CA508-SS503-001				CA508-SS05-001			CA508-SS505-001			
DATE COLLECTED	January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Chloroethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Chloroform	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Chloromethane	<	1.30E+01	U	<	1.30E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.50E+01	U	
cis-1,3-Dichloropropene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Dibromochloromethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Dibromomethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Dichlorodifluoromethane	<	1.30E+01	U	<	1.30E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.50E+01	U	
Ethylbenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Hexachlorobutadiene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Isopropylbenzene (Cumene)	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
m,p-Xylene (sum of isomers)	<	1.30E+01	U	<	1.30E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.50E+01	U	
Methyl Ethyl Ketone (2-Butanone)	<	1.30E+01	U	<	1.30E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.50E+01	U	
Methylene Chloride	<	1.30E+01	U	<	1.30E+01	U		<	1.10E+01	U	<	1.10E+01	U		<	1.20E+01	U	<	1.50E+01	U	
Naphthalene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
n-Butylbenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
n-Propylbenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
o-Xylene (1,2-Dimethylbenzene)	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
p-Cymene (p-Isopropyltoluene)	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
sec-Butylbenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Styrene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
t-Butylbenzene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Tetrachloroethene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Toluene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
trans-1,3-Dichloropropene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Trichloroethene	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Trichlorofluoromethane	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
Vinyl Chloride	<	6.50E+00	U	<	6.30E+00	U		<	5.30E+00	U	<	5.40E+00	U		<	6.20E+00	U	<	7.50E+00	U	
SEMIVOLATILE ORGANIC COMPOUNDS (µg/kg)																					
1,2,4-Trichlorobenzene	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
1,2-Dichlorobenzene	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
1,3-Dichlorobenzene	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
1,4-Dichlorobenzene	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
2,4,5-Trichlorophenol	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
2,4,6-Trichlorophenol	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
2,4-Dichlorophenol	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
2,4-Dimethylphenol	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
2,4-Dinitrophenol	<	2.10E+03	U	<	2.20E+03	U		<	7.10E+02	U	<	7.10E+02	U		<	7.20E+02	U	<	7.20E+02	U	
2,4-Dinitrotoluene	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA508-SS01-001							CA508-SS03-001							CA508-SS05-001						
FIELD ID	CA508-SS01-001			CA508-SS501-001				CA508-SS03-001			CA508-SS503-001				CA508-SS05-001			CA508-SS505-001			
DATE COLLECTED	January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
2,6-Dinitrotoluene	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
2-Chloronaphthalene	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
2-Chlorophenol	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
2-Methylphenol (o-cresol)	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
2-Nitroaniline	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
2-Nitrophenol	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
3-Nitroaniline	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
4,6-Dinitro-2-methylphenol	<	2.10E+03	U	<	2.20E+03	U		<	7.10E+02	U	<	7.10E+02	U		<	7.20E+02	U	<	7.20E+02	U	
4-Bromophenyl-phenylether	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
4-Chloro-3-methylphenol	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
4-Chlorophenyl-phenylether	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
4-Methylphenol (p-cresol)	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
4-Nitroaniline	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
4-Nitrophenol	<	2.10E+03	U	<	2.20E+03	U		<	7.10E+02	U	<	7.10E+02	U		<	7.20E+02	U	<	7.20E+02	U	
Benzyl Alcohol	<	4.20E+03	U	<	4.20E+03	U		<	1.40E+03	U	<	1.40E+03	U		<	1.40E+03	U	<	1.40E+03	U	
bis(2-Chloroethoxy)methane	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
bis(2-Chloroethyl)ether	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
bis(2-Ethylhexyl)phthalate	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Butylbenzylphthalate	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Carbazole	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Dibenzofuran	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Diethylphthalate	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Dimethylphthalate	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Di-n-butylphthalate	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Di-n-octylphthalate	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Hexachlorobenzene	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Hexachlorobutadiene	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Hexachloroethane	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Isophorone	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Nitrobenzene	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
N-Nitrosodimethylamine	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
N-Nitroso-di-n-propylamine	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
N-Nitrosodiphenylamine	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
Pentachlorophenol	<	2.10E+03	U	<	2.20E+03	U		<	7.10E+02	U	<	7.10E+02	U		<	7.20E+02	U	<	7.20E+02	U	
Phenol	<	1.10E+03	U	<	1.10E+03	U		<	3.50E+02	U	<	3.60E+02	U		<	3.60E+02	U	<	3.60E+02	U	
POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) (µg/kg)																					
2-Methylnaphthalene	<	3.30E+01	U	<	3.30E+01	U		6.70E+00	1.10E+01	J	1.00E+01	1.10E+01	J	<2X	6.80E+00	1.10E+01	J	7.10E+00	1.10E+01	J	<2X
Acenaphthene	<	3.30E+01	U	<	3.30E+01	U		6.20E+00	1.10E+01	J	1.30E+01	1.10E+01		<2X	1.30E+01	1.10E+01		2.30E+01	1.10E+01		<2X

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA508-SS01-001							CA508-SS03-001							CA508-SS05-001						
FIELD ID	CA508-SS01-001			CA508-SS501-001				CA508-SS03-001			CA508-SS503-001				CA508-SS05-001			CA508-SS505-001			
DATE COLLECTED	January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Acenaphthylene	<	3.30E+01	U	<	3.30E+01	U		5.30E+00	1.10E+01	J	5.80E+00	1.10E+01	J	<2X	7.80E+00	1.10E+01	J	8.30E+00	1.10E+01	J	<2X
Anthracene	<	3.30E+01	U	<	3.30E+01	U		1.40E+01	1.10E+01		1.80E+01	1.10E+01		<2X	1.80E+01	1.10E+01	J	4.80E+01	1.10E+01	J	<2X
Benzo(a)anthracene	1.70E+01	3.30E+01	J	1.50E+01	3.30E+01	J	<2X	8.00E+01	1.10E+01		6.90E+01	1.10E+01		15	1.00E+02	1.10E+01	J	1.70E+02	1.10E+01	J	52
Benzo(a)pyrene	2.70E+01	3.30E+01	J	2.60E+01	3.30E+01	J	<2X	1.10E+02	1.10E+01		8.70E+01	1.10E+01		23	1.40E+02	1.10E+01		2.10E+02	1.10E+01		40
Benzo(b)fluoranthene	3.40E+01	3.30E+01		3.30E+01	3.30E+01		<2X	1.60E+02	1.10E+01		1.30E+02	1.10E+01		21	1.90E+02	1.10E+01		2.70E+02	1.10E+01		35
Benzo(g,h,i)perylene	2.30E+01	3.30E+01	J	2.70E+01	3.30E+01	J	<2X	7.80E+01	1.10E+01		6.50E+01	1.10E+01		18	1.00E+02	1.10E+01		1.30E+02	1.10E+01		26
Benzo(k)fluoranthene	9.30E+00	3.30E+01	J	<	3.30E+01	U	<2X	5.60E+01	1.10E+01		3.50E+01	1.10E+01		<2X	6.60E+01	1.10E+01	J	1.10E+02	1.10E+01	J	50
Chrysene	1.40E+01	3.30E+01	J	1.30E+01	3.30E+01	J	<2X	1.20E+02	1.10E+01		9.10E+01	1.10E+01		27	1.60E+02	1.10E+01		2.20E+02	1.10E+01		32
Dibenz(a,h)anthracene	<	3.30E+01	U	<	3.30E+01	U		1.40E+01	1.10E+01		1.20E+01	1.10E+01		<2X	1.90E+01	1.10E+01		2.70E+01	1.10E+01		<2X
Fluoranthene	3.60E+01	3.30E+01		3.20E+01	3.30E+01	J	<2X	2.80E+02	1.10E+01		2.00E+02	1.10E+01		33	3.50E+02	1.10E+01		5.10E+02	1.10E+01		37
Fluorene	<	3.30E+01	U	<	3.30E+01	U		4.50E+00	1.10E+01	J	8.40E+00	1.10E+01	J	<2X	7.80E+00	1.10E+01	J	1.40E+01	1.10E+01		<2X
Indeno(1,2,3-cd)pyrene	2.10E+01	3.30E+01	J	2.30E+01	3.30E+01	J	<2X	6.60E+01	1.10E+01		5.60E+01	1.10E+01		16	8.60E+01	1.10E+01		1.20E+02	1.10E+01		33
Naphthalene	<	3.30E+01	U	<	3.30E+01	U		3.50E+00	1.10E+01	J	9.50E+00	1.10E+01	J	<2X	3.90E+00	1.10E+01	J	4.70E+00	1.10E+01	J	<2X
Phenanthrene	2.00E+01	3.30E+01	J	1.30E+01	3.30E+01	J	<2X	1.60E+02	1.10E+01		1.30E+02	1.10E+01		21	2.20E+02	1.10E+01		3.10E+02	1.10E+01		34
Pyrene	3.10E+01	3.30E+01	J	2.80E+01	3.30E+01	J	<2X	2.20E+02	1.10E+01		1.70E+02	1.10E+01		26	3.00E+02	1.10E+01		4.40E+02	1.10E+01		38
PESTICIDES (ORGANOCHLORINE) (µg/kg)																					
4,4-DDD	<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U	
4,4-DDE	4.80E+00	4.30E+00		4.20E+00	4.30E+00	J	<2X	<	4.30E+00	U	<	4.30E+00	U		2.80E+00	4.30E+00	J	2.90E+00	4.30E+00	J	<2X
4,4-DDT	1.20E+01	4.30E+00		9.70E+00	4.30E+00		<2X	2.60E+00	4.30E+00	J	2.70E+00	4.30E+00	J	<2X	6.70E+00	4.30E+00		4.40E+00	4.30E+00		<2X
Aldrin	<	2.20E+00	U	<	2.20E+00	U		<	2.10E+00	U	<	2.20E+00	U		<	2.20E+00	U	<	2.20E+00	U	
alpha-BHC	<	2.20E+00	U	<	2.20E+00	U		<	2.10E+00	U	<	2.20E+00	U		<	2.20E+00	U	<	2.20E+00	U	
alpha-Chlordane	3.40E+00	2.20E+00		2.20E+00	2.20E+00	J	<2X	<	2.10E+00	U	<	2.20E+00	U		<	2.20E+00	U	<	2.20E+00	U	
beta-BHC	<	2.20E+00	U	<	2.20E+00	U		<	2.10E+00	U	<	2.20E+00	U		<	2.20E+00	UJ	<	2.20E+00	UJ	
delta-BHC	<	2.20E+00	U	<	2.20E+00	U		<	2.10E+00	U	<	2.20E+00	U		<	2.20E+00	U	<	2.20E+00	U	
Dieldrin	<	4.30E+00	U	<	4.30E+00	U		8.10E+00	4.30E+00		9.80E+00	4.30E+00		<2X	2.10E+00	4.30E+00	J	2.00E+00	4.30E+00	J	<2X
Endosulfan I	<	2.20E+00	U	<	2.20E+00	U		<	2.10E+00	U	<	2.20E+00	U		<	2.20E+00	U	<	2.20E+00	U	
Endosulfan II	<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U	
Endosulfan sulfate	<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U	
Endrin	<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U	
Endrin aldehyde	<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U	
Endrin ketone	<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U		<	4.30E+00	U	<	4.30E+00	U	
gamma-BHC (Lindane)	<	2.20E+00	U	<	2.20E+00	U		<	2.10E+00	U	<	2.20E+00	U		<	2.20E+00	U	<	2.20E+00	U	
gamma-Chlordane	1.90E+00	2.20E+00	J	<	2.20E+00	U		<	2.10E+00	U	<	2.20E+00	U		<	2.20E+00	U	<	2.20E+00	U	
Heptachlor	<	2.20E+00	U	<	2.20E+00	U		<	2.10E+00	U	<	2.20E+00	U		<	2.20E+00	U	<	2.20E+00	U	
Heptachlor epoxide	<	2.20E+00	U	<	2.20E+00	U		<	2.10E+00	U	<	2.20E+00	U		<	2.20E+00	U	<	2.20E+00	U	
Methoxychlor	<	2.20E+01	U	<	2.20E+01	U		<	2.10E+01	U	<	2.20E+01	U		<	2.20E+01	U	<	2.20E+01	U	

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA508-SS01-001							CA508-SS03-001							CA508-SS05-001						
FIELD ID	CA508-SS01-001			CA508-SS501-001				CA508-SS03-001			CA508-SS503-001				CA508-SS05-001			CA508-SS505-001			
DATE COLLECTED	January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
DIOXINS/FURANS (ng/kg)																					
1,2,3,4,6,7,8-HpCDD	4.63E+02	2.66E+00		3.46E+02	2.66E+00		29	1.72E+01	2.69E+00		1.25E+01	2.61E+00		32	1.90E+01	2.72E+00		1.67E+01	2.67E+00	J	13
1,2,3,4,6,7,8-HpCDF	1.54E+01	2.66E+00		1.33E+01	2.66E+00		15	2.35E+00	2.69E+00	J	1.50E+00	2.61E+00	J	<2X	1.80E+00	2.72E+00	J	1.23E+00	2.67E+00	J	<2X
1,2,3,4,7,8,9-HpCDF	<	2.66E+00	U	<	2.66E+00	U		<	2.69E+00	U	<	2.61E+00	U		<	2.72E+00	U	<	2.67E+00	U	
1,2,3,4,7,8-HxCDD	6.03E+00	2.66E+00		3.09E+00	2.66E+00	J	<2X	<	2.69E+00	U	<	2.61E+00	U		<	2.72E+00	U	<	2.67E+00	U	
1,2,3,4,7,8-HxCDF	2.30E+00	2.66E+00	J	2.61E+00	2.66E+00	J	<2X	3.94E-01	2.69E+00	J	<	2.61E+00	U	<2X	<	2.72E+00	U	<	2.67E+00	U	
1,2,3,6,7,8-HxCDD	1.66E+01	2.66E+00	J	1.19E+01	2.66E+00		33	5.86E-01	2.69E+00	J	<	2.61E+00	U	<2X	<	2.72E+00	U	<	2.67E+00	U	
1,2,3,6,7,8-HxCDF	2.24E+00	2.66E+00	J	1.75E+00	2.66E+00	J	<2X	<	2.69E+00	U	<	2.61E+00	U		<	2.72E+00	U	<	2.67E+00	U	
1,2,3,7,8,9-HxCDD	1.82E+01	2.66E+00		1.01E+01	2.66E+00		>2X	<	2.69E+00	U	<	2.61E+00	U		<	2.72E+00	U	<	2.67E+00	U	
1,2,3,7,8,9-HxCDF	<	2.66E+00	U	<	2.66E+00	U		<	2.69E+00	U	<	2.61E+00	U		<	2.72E+00	U	<	2.67E+00	U	
1,2,3,7,8-PeCDD	2.21E+00	2.66E+00	J	1.88E+00	2.66E+00	J	<2X	<	2.69E+00	U	<	2.61E+00	U		<	2.72E+00	U	<	2.67E+00	U	
1,2,3,7,8-PeCDF	<	2.66E+00	U	<	2.66E+00	U		<	2.69E+00	U	<	2.61E+00	U		<	2.72E+00	U	<	2.67E+00	U	
2,3,4,6,7,8-HxCDF	3.71E+00	2.66E+00		3.94E+00	2.66E+00		<2X	4.74E-01	2.69E+00	J	3.49E-01	2.61E+00	J	<2X	<	2.72E+00	U	<	2.67E+00	U	
2,3,4,7,8-PeCDF	1.23E+00	2.66E+00	J	1.62E+00	2.66E+00	J	<2X	3.05E-01	2.69E+00	J	<	2.61E+00	U	<2X	<	2.72E+00	U	<	2.67E+00	U	
2,3,7,8-TCDD	<	5.33E-01	U	<	5.32E-01	U		<	5.38E-01	U	<	5.22E-01	U		<	5.45E-01	U	<	5.34E-01	U	
2,3,7,8-TCDF	<	5.33E-01	U	<	9.72E-01	U		<	5.38E-01	U	<	5.22E-01	U		<	5.45E-01	U	<	5.34E-01	U	
OCDD	2.75E+03	5.33E+00	J	2.18E+03	5.32E+00	J	23	1.79E+02	5.38E+00		1.35E+02	5.22E+00		28	1.60E+02	5.45E+00		1.86E+02	5.34E+00		15
OCDF	1.99E+01	5.33E+00		1.44E+01	5.32E+00		<2X	5.40E+00	5.38E+00		3.92E+00	5.22E+00	J	<2X	4.05E+00	5.45E+00	J	<	5.34E+00	U	
Dioxins/Furans	1.31E+01	1.31E+01		9.96E+00	9.96E+00		<2X	4.88E-01	4.83E-01		2.17E-01	2.17E-01		<2X	2.57E-01	2.57E-01		2.35E-01	2.35E-01		<2X
Heptachlorinated Dibenzofurans, (total)	3.91E+01	2.66E+00	J	1.33E+01	2.66E+00	J	98	<	2.69E+00	U	3.15E+00	2.61E+00		<2X	1.80E+00	2.72E+00	J	<	2.67E+00	U	<2X
Heptachlorinated Dibenzo-p-dioxins, (total)	9.33E+02	2.66E+00		6.94E+02	2.66E+00		29	5.75E+01	2.69E+00		4.49E+01	2.61E+00		25	6.77E+01	2.72E+00	J	<	2.67E+00	UJ	200
Hexachlorinated Dibenzofurans, (total)	5.34E+01	2.66E+00		5.01E+01	2.66E+00		6	7.69E+00	2.69E+00		2.36E+00	2.61E+00	J	<2X	<	2.72E+00	U	<	2.67E+00	U	
Hexachlorinated Dibenzo-p-dioxins, (total)	1.54E+02	2.66E+00		1.13E+02	2.66E+00		31	5.38E+00	2.69E+00		3.64E+00	2.61E+00		<2X	2.15E+00	2.72E+00	J	<	2.67E+00	U	<2X
Pentachlorinated Dibenzofurans, (total)	7.87E+01	2.66E+00		7.61E+01	2.66E+00		3	1.02E+01	2.69E+00		5.37E+00	2.61E+00		<2X	5.74E+00	2.72E+00		5.74E+00	2.67E+00		0
Pentachlorinated Dibenzo-p-dioxins,(total)	1.47E+01	2.66E+00	J	9.34E+00	2.66E+00	J	>2X	<	2.69E+00	U	<	2.61E+00	U		<	2.72E+00	U	<	2.67E+00	U	
Tetrachlorinated Dibenzofurans, (total)	2.26E+01	5.33E-01		1.82E+01	6.31E-01		22	1.07E+00	5.38E-01		<	5.22E-01	U	<2X	<	5.45E-01	U	9.58E-01	5.34E-01		<2X
Tetrachlorinated Dibenzo-p-dioxins, (total	1.85E+00	5.33E-01		<	5.32E-01	U	<2X	<	5.38E-01	U	<	5.22E-01	U		<	5.45E-01	U	<	5.34E-01	U	
PETROLEUM HYDROCARBONS (mg/kg)																					
Diesel Range Organics	1.20E+01	1.10E+01		1.40E+01	1.10E+01		<2X	<	1.10E+01	UJ	3.00E+00	1.10E+01	J	<2X	4.90E+00	1.10E+01	J	4.30E+00	1.10E+01	J	13
Gasoline Range Organics	<	1.30E+00	U	<	1.20E+00	U		<	1.30E+00	U	<	1.10E+00	U		<	1.40E+00	U	5.30E-01	1.00E+00	J	<2X
Oil Range Organics	1.10E+02	2.20E+01		1.10E+02	2.20E+01		0	2.30E+01	2.10E+01		2.40E+01	2.20E+01		<2X	2.50E+01	2.20E+01		2.10E+01	2.20E+01	J	<2X
METALS (mg/kg)																					
Arsenic	3.55E+00	5.27E-01		3.31E+00	5.12E-01		7	5.59E+00	5.20E-01		4.32E+00	4.92E-01		26	4.59E+00	5.28E-01		4.04E+00	5.36E-01		13
Barium	1.54E+02	5.27E-01		1.74E+02	5.12E-01		12	1.55E+02	5.20E-01		1.22E+02	4.92E-01		24	1.37E+02	5.28E-01	J	6.61E+02	5.36E-01	J	131
Cadmium	3.79E+00	5.27E-01		3.21E+00	5.12E-01		17	3.24E-01	5.20E-01	J	3.27E-01	4.92E-01	J	<2X	3.46E-01	5.28E-01	J	3.09E-01	5.36E-01	J	<2X
Chromium	1.89E+01	5.27E-01		1.47E+01	5.12E-01		25	1.31E+01	5.20E-01		1.30E+01	4.92E-01		1	1.45E+01	5.28E-01		1.09E+01	5.36E-01		28

TABLE D.2
SUMMARY OF FIELD DUPLICATE ANALYSIS
CANNON AIR FORCE BASE, NEW MEXICO

PARENT SAMPLE ID	CA508-SS01-001							CA508-SS03-001							CA508-SS05-001						
FIELD ID	CA508-SS01-001			CA508-SS501-001				CA508-SS03-001			CA508-SS503-001				CA508-SS05-001			CA508-SS505-001			
DATE COLLECTED	January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013				January 23, 2013			January 23, 2013			
	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD	Result	LOQ	Qual	Result	LOQ	Qual	RPD
Lead	3.13E+01	5.27E-01		2.58E+01	5.12E-01		19	1.50E+01	5.20E-01		1.50E+01	4.92E-01		0	1.56E+01	5.28E-01		1.17E+01	5.36E-01		29
Selenium	1.64E-01	5.27E-01	J	1.85E-01	5.12E-01	J	<2X	1.06E-01	5.20E-01	J	1.21E-01	4.92E-01	J	<2X	1.30E-01	5.28E-01	J	1.25E-01	5.36E-01	J	<2X
Silver	8.60E-01	5.27E-01		8.45E-01	5.12E-01		<2X	5.66E-02	5.20E-01	J	5.88E-02	4.92E-01	J	<2X	9.07E-02	5.28E-01	J	6.18E-02	5.36E-01	J	<2X

Notes:
Shaded values indicate the RPD is >50% or the difference is greater than 2X
<2X = If either result is less than 5X the LOQ, then the difference is less than 2X.
>2X = If either result is less than 5X the LOQ, then the difference is greater than 2X.
µg/kg = microgram per kilogram
J = Estimated
LOQ = Limit of Quantitation
mg/kg = miligram per kilogram
ng/kg = nanogram per kilogram
Qual = Qualifier
RPD = Relative Percent Difference
U = Nondetect
UJ = Estimated Nondetect

TABLE D.3
SUMMARY OF DATA QUALIFICATIONS
CANNON AIR FORCE BASE, NEW MEXICO

SDG	Field ID	Analysis	Analyte	NEW LOQ	URS Qual.	Code	Comments
13A082	CA508-SS07-001	VOCs	m,p-Xylene	--	J	SH	High surrogate recovery
13A082A	CA508-SB06-004	Dioxins/Furans	1,2,3,4,6,7,8-HpCDD	--	J	IR	Ion abundance ratios
13A082A	CA508-SB06-010	Dioxins/Furans	OCDD	--	J	IR	Ion abundance ratios
13A082A	CA508-SB07-005	Dioxins/Furans	OCDD	--	J	IR	Ion abundance ratios
13A082A	CA508-SB09-005	Dioxins/Furans	1,2,3,7,8,9-HxCDD	--	J	IR	Ion abundance ratios
13A082A	CA508-SB09-010	Dioxins/Furans	1,2,3,7,8,9-HxCDD	--	J	IR	Ion abundance ratios
13A082A	CA508-SS06-001	Dioxins/Furans	1,2,3,6,7,8-HxCDD	--	J	IR	Ion abundance ratios
13A082A	CA508-SS06-001	Dioxins/Furans	OCDF	--	J	IR	Ion abundance ratios
13A082A	CA508-SS07-001	Dioxins/Furans	1,2,3,4,6,7,8-HpCDD	--	J	IR	Ion abundance ratios
13A082A	CA508-SS09-001	Dioxins/Furans	1,2,3,7,8-PeCDD	--	J	IR	Ion abundance ratios
13A082A	CA508-SS09-001	Dioxins/Furans	1,2,3,4,7,8-HxCDF	--	J	IR	Ion abundance ratios
13A082A	CA508-SS09-001	Dioxins/Furans	2,3,4,6,7,8-HxCDF	--	J	IR	Ion abundance ratios
13A082A	CA508-SS07-001	Dioxins/Furans	OCDD	--	J	IS	Internal Standard recovery low
13A082A	CA508-SS09-001	Dioxins/Furans	OCDD	--	J	IS	Internal Standard recovery low
13A096	CA508-SB01-020	Metals	Barium	--	J	MD	MD RPD >20%
13A096	CA508-SB01-020	Metals	Cadmium	--	J	MD	MD RPD >20%
13A096	CA508-SB01-020	Metals	Lead	--	J	MD	MD RPD >20%
13A096	CA508-SS01-001	SVOCs	di-n-Butylphthalate	--	U	PJ	Common lab contaminant
13A096A	CA508-SS01-001	Dioxins/Furans	1,2,3,7,8,9-HxCDD	--	J	FD	Field Duplicate RPD >50%
13A096A	CA508-SS501-001	Dioxins/Furans	1,2,3,7,8,9-HxCDD	--	J	FD	Field Duplicate RPD >50%
13A096A	CA508-SB01-004	Dioxins/Furans	1,2,3,4,6,7,8-HpCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SB01-004	Dioxins/Furans	1,2,3,4,7,8,9-HpCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SB01-004	Dioxins/Furans	1,2,3,4,7,8-HxCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SB01-004	Dioxins/Furans	2,3,4,6,7,8-HxCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SB01-015	Dioxins/Furans	1,2,3,7,8,9-HxCDD	--	J	IR	Ion abundance ratios
13A096A	CA508-SB01-020	Dioxins/Furans	1,2,3,4,7,8-HxCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SB01-020	Dioxins/Furans	2,3,4,6,7,8-HxCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SB04-001	Dioxins/Furans	OCDD	--	J	IR	Ion abundance ratios
13A096A	CA508-SB501-004	Dioxins/Furans	1,2,3,4,7,8-HxCDD	--	J	IR	Ion abundance ratios
13A096A	CA508-SB501-004	Dioxins/Furans	1,2,3,4,7,8-HxCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SB501-004	Dioxins/Furans	1,2,3,7,8-PeCDD	--	J	IR	Ion abundance ratios
13A096A	CA508-SB501-004	Dioxins/Furans	2,3,4,6,7,8-HxCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SB501-004	Dioxins/Furans	OCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SS01-001	Dioxins/Furans	1,2,3,4,7,8-HxCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SS01-001	Dioxins/Furans	1,2,3,6,7,8-HxCDD	--	J	IR	Ion abundance ratios
13A096A	CA508-SS01-001	Dioxins/Furans	1,2,3,7,8-PeCDD	--	J	IR	Ion abundance ratios
13A096A	CA508-SS01-001	Dioxins/Furans	2,3,4,7,8-PeCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SS04-001	Dioxins/Furans	1,2,3,7,8-PeCDD	--	J	IR	Ion abundance ratios
13A096A	CA508-SS04-001	Dioxins/Furans	OCDF	--	J	IR	Ion abundance ratios
13A096A	CA508-SS501-001	Dioxins/Furans	1,2,3,4,7,8-HxCDD	--	J	IR	Ion abundance ratios
13A096A	CA508-SS501-001	Dioxins/Furans	1,2,3,6,7,8-HxCDD	--	J	IR	Ion abundance ratios
13A096A	CA508-SS501-001	Dioxins/Furans	1,2,3,7,8-PeCDD	--	J	IR	Ion abundance ratios
13A096A	CA508-SB501-004	Dioxins/Furans	OCDD	--	J	IS	Internal Standard recovery low
13A096A	CA508-SS01-001	Dioxins/Furans	OCDD	--	J	IS	Internal Standard recovery low
13A096A	CA508-SS501-001	Dioxins/Furans	OCDD	--	J	IS	Internal Standard recovery low
13A097	CA508-SB03-005	Metals	Mercury	--	U	CB	CCB contamination
13A097	CA508-SB03-010	Metals	Mercury	--	U	CB	CCB contamination
13A097	CA508-SB05-005	Metals	Mercury	--	U	CB	CCB contamination
13A097	CA508-SB08-005	Metals	Mercury	--	U	CB	CCB contamination
13A097	CA508-SS03-001	Metals	Mercury	--	U	CB	CCB contamination
13A097	CA508-SS05-001	Metals	Mercury	--	U	CB	CCB contamination
13A097	CA508-SS503-001	Metals	Mercury	--	U	CB	CCB contamination
13A097	CA508-SS505-001	Metals	Mercury	--	U	CB	CCB contamination
13A097	CA508-SS05-001	PAHs	Anthracene	--	J	FD	FieldDuplicate RPD >50%

TABLE D.3
SUMMARY OF DATA QUALIFICATIONS
CANNON AIR FORCE BASE, NEW MEXICO

SDG	Field ID	Analysis	Analyte	NEW LOQ	URS Qual.	Code	Comments
13A097	CA508-SS05-001	PAHs	Benzo(k)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13A097	CA508-SS05-001	Metals	Barium	--	J	FD	FieldDuplicate RPD >50%
13A097	CA508-SS505-001	PAHs	Anthracene	--	J	FD	FieldDuplicate RPD >50%
13A097	CA508-SS505-001	PAHs	Benzo(k)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13A097	CA508-SS505-001	Metals	Barium	--	J	FD	FieldDuplicate RPD >50%
13A097	CA508-SB08-010	Metals	Barium	--	J	MD	MD RPD >20%
13A097A	CA-508-SB03-005	Dioxins/Furans	1,2,3,4,6,7,8-HpCDD	--	J	IR	Ion abundance ratios
13A097A	CA-508-SS03-001	Dioxins/Furans	2,3,4,7,8-PeCDF	--	J	IR	Ion abundance ratios
13A097A	CA-508-SS03-001	Dioxins/Furans	2,3,4,6,7,8-HxCDF	--	J	IR	Ion abundance ratios
13A097A	CA-508-SS03-001	Dioxins/Furans	1,2,3,4,6,7,8-HpCDF	--	J	IR	Ion abundance ratios
13A097A	CA-508-SS503-001	Dioxins/Furans	2,3,4,6,7,8-HxCDF	--	J	IR	Ion abundance ratios
13A097A	CA-508-SS503-001	Dioxins/Furans	1,2,3,4,6,7,8-HpCDF	--	J	IR	Ion abundance ratios
13A097A	CA-508-SS505-001	Dioxins/Furans	1,2,3,4,6,7,8-HpCDD	--	J	IR	Ion abundance ratios
13A097A	CA-508-SS505-001	Dioxins/Furans	1,2,3,4,6,7,8-HpCDF	--	J	IR	Ion abundance ratios
13A108	CA129-SB05-005	PAHs	Benzo(a)anthracene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB05-005	PAHs	Benzo(b)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB05-005	PAHs	Benzo(k)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB05-005	PAHs	Benzo(a)pyrene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB05-005	PAHs	Chrysene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB05-005	PAHs	Fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB05-005	PAHs	Pyrene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB505-005	PAHs	Benzo(a)anthracene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB505-005	PAHs	Benzo(b)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB505-005	PAHs	Benzo(a)pyrene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB505-005	PAHs	Chrysene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB505-005	PAHs	Fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB505-005	PAHs	Pyrene	--	J	FD	FieldDuplicate RPD >50%
13A108	CA129-SB04-005	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A119	CA129-SB01-015	Metals	Selenium	--	U	CB	CCB contamination
13A119	CA129-SB01-018	Metals	Selenium	--	U	CB	CCB contamination
13A119	CA129-SB08-010	Metals	Selenium	--	U	CB	CCB contamination
13A119	CA129-SB08-020	Metals	Barium	--	J	MD	MD RPD >20%
13A119	CA129-SB01-004	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A119	CA129-SB06-020	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A119	CA129-SB06-003	Pesticides	4,4'-DDE	--	J	SH	High surrogate recovery
13A120	CA129-SB02-015	Metals	Selenium	--	U	CB	CCB contamination
13A120	CA129-SB02-020	Metals	Selenium	--	U	CB	CCB contamination
13A120	CA129-SB03-010	Metals	Selenium	--	U	CB	CCB contamination
13A120	CA129-SB03-015	Metals	Selenium	--	U	CB	CCB contamination
13A120	CA129-SB03-020	Metals	Selenium	--	U	CB	CCB contamination
13A120	CA129-SB07-010	Metals	Selenium	--	U	CB	CCB contamination
13A120	CA129-SB03-005	PAHs	Phenanthrene	--	J	FD	FieldDuplicate RPD >50%
13A120	CA129-SB03-005	Metals	Barium	--	J	FD	FieldDuplicate RPD >50%
13A120	CA129-SB03-005	Metals	Lead	--	J	FD	FieldDuplicate RPD >50%
13A120	CA129-SB503-005	PAHs	Phenanthrene	--	J	FD	FieldDuplicate RPD >50%
13A120	CA129-SB503-005	PAHs	Naphthalene	--	J	FD	FieldDuplicate RPD >50%
13A120	CA129-SB503-005	Metals	Barium	--	J	FD	FieldDuplicate RPD >50%
13A120	CA129-SB503-005	Metals	Lead	--	J	FD	FieldDuplicate RPD >50%
13A120	CA129-SB07-020	Metals	Barium	--	J	MD	MD RPD >20%
13A120	CA129-SB03-025	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A120	CA129-SB07-020	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A120	CA129-SB503-005	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A120	CA129-SB503-005	SVOCs	Bis(2-ethylhexyl)phthalate	--	U	PJ	Common lab contaminant
13A142	CA501-SB01-010	Metals	Selenium	--	U	CB	CCB contamination

TABLE D.3
SUMMARY OF DATA QUALIFICATIONS
CANNON AIR FORCE BASE, NEW MEXICO

SDG	Field ID	Analysis	Analyte	NEW LOQ	URS Qual.	Code	Comments
13A142	CA501-SB07-010	Metals	Selenium	--	U	CB	CCB contamination
13A142	CA501-SB10-010	Metals	Selenium	--	U	CB	CCB contamination
13A142	CA501-SB01-005	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A142	CA501-SB03-010	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A142	CA501-SB03-015	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A142	CA501-SB04-004	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A142	CA501-SB05-005	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A142	CA501-SB503-004	VOCs	Acetone	--	U	PJ	Common lab contaminant
13A151	CA501-SB06-005	Metals	Mercury	--	U	CB	CCB contamination
13A151	CA501-SB08-005	Metals	Mercury	--	U	CB	CCB contamination
13A151	CA501-SB08-010	Metals	Mercury	--	U	CB	CCB contamination
13A151	CA501-SB11-005	Metals	Mercury	--	U	CB	CCB contamination
13B007	CA502-SB07-005	Metals	Lead	--	J	FD	FieldDuplicate RPD >50%
13B007	CA502-SB507-005	Metals	Lead	--	J	FD	FieldDuplicate RPD >50%
13B007	CA502-SB12-005	VOCs	Acetone	0.014	U	PJ	Common lab contaminant
13B007	CA502-SB08-030	Metals	Lead	--	J	SD	Serial Dilution %D>10%
13B013	CA502-SB13-009	VOCs	Acetone	0.02	U	PJ	Common lab contaminant
13B013	CA502-SB13-012	VOCs	Acetone	--	U	PJ	Common lab contaminant
13B019	CA507-SS04-001	PAHs	Benzo(a)anthracene	--	J	FD	FieldDuplicate RPD >50%
13B019	CA507-SS04-001	PAHs	Benzo(b)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13B019	CA507-SS04-001	PAHs	Benzo(k)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13B019	CA507-SS04-001	PAHs	Chrysene	--	J	FD	FieldDuplicate RPD >50%
13B019	CA507-SS504-001	PAHs	Benzo(a)anthracene	--	J	FD	FieldDuplicate RPD >50%
13B019	CA507-SS504-001	PAHs	Benzo(b)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13B019	CA507-SS504-001	PAHs	Benzo(k)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13B019	CA507-SS504-001	PAHs	Chrysene	--	J	FD	FieldDuplicate RPD >50%
13B019	CA507-SB38-009	VOCs	Benzene	--	UJ	SL	Surrogate recovery low
13B019	CA507-SB38-009	VOCs	Ethylbenzene	--	UJ	SL	Surrogate recovery low
13B019	CA507-SB38-009	VOCs	m,p-Xylene	--	UJ	SL	Surrogate recovery low
13B019	CA507-SB38-009	VOCs	Naphthalene	--	UJ	SL	Surrogate recovery low
13B019	CA507-SB38-009	VOCs	o-Xylene	--	UJ	SL	Surrogate recovery low
13B019	CA507-SB38-009	VOCs	Toluene	--	UJ	SL	Surrogate recovery low
13B020	CA507-SS02-001	VOCs	m,p-Xylene	--	J	FD	FieldDuplicate RPD >50%
13B027	CA507-SB07-005	PAHs	Benzo(a)anthracene	--	J	FD	FieldDuplicate RPD >50%
13B027	CA507-SB07-005	PAHs	Benzo(a)pyrene	--	J	FD	FieldDuplicate RPD >50%
13B027	CA507-SB07-005	PAHs	Benzo(b)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13B027	CA507-SB07-005	PAHs	Chrysene	--	J	FD	FieldDuplicate RPD >50%
13B027	CA507-SB507-005	PAHs	Benzo(a)anthracene	--	J	FD	FieldDuplicate RPD >50%
13B027	CA507-SB507-005	PAHs	Benzo(a)pyrene	--	J	FD	FieldDuplicate RPD >50%
13B027	CA507-SB507-005	PAHs	Benzo(b)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13B027	CA507-SB507-005	PAHs	Chrysene	--	J	FD	FieldDuplicate RPD >50%
13B028	CA504-SB01-025	PAHs	Benzo(a)anthracene	--	J	FD	FieldDuplicate RPD >50%
13B028	CA504-SB501-025	PAHs	Benzo(a)anthracene	--	J	FD	FieldDuplicate RPD >50%
13B028	CA504-SB01-023	SVOCs	Benzo(a)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-023	SVOCs	Benzo(a)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-023	SVOCs	Benzo(b)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-023	SVOCs	Benzo(k)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-023	SVOCs	Chrysene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-023	SVOCs	Indeno(1,2,3-CD)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-023	SVOCs	Dibenz(a,h)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-025	SVOCs	Benzo(a)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-025	SVOCs	Benzo(a)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-025	SVOCs	Benzo(b)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-025	SVOCs	Benzo(k)fluoranthene	--	J	SH	High surrogate recovery

TABLE D.3
SUMMARY OF DATA QUALIFICATIONS
CANNON AIR FORCE BASE, NEW MEXICO

SDG	Field ID	Analysis	Analyte	NEW LOQ	URS Qual.	Code	Comments
13B028	CA504-SB01-025	SVOCs	Chrysene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-025	SVOCs	Indeno(1,2,3-CD)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-025	SVOCs	Dibenz(a,h)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-030	VOCs	Naphthalene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-030	SVOCs	Benzo(a)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-030	SVOCs	Benzo(a)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-030	SVOCs	Benzo(b)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-030	SVOCs	Benzo(k)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-030	SVOCs	Chrysene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-030	SVOCs	Indeno(1,2,3-CD)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-035	VOCs	Naphthalene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-035	SVOCs	Benzo(a)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-035	SVOCs	Benzo(a)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-035	SVOCs	Benzo(b)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-035	SVOCs	Dibenz(a,h)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-035	SVOCs	Chrysene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-035	SVOCs	Indeno(1,2,3-CD)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-040	VOCs	Naphthalene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-040	SVOCs	Benzo(a)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-040	SVOCs	Benzo(a)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-040	SVOCs	Benzo(b)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-040	SVOCs	Benzo(k)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-040	SVOCs	Chrysene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-040	SVOCs	Indeno(1,2,3-CD)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-040	SVOCs	Dibenz(a,h)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-045	VOCs	Naphthalene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-045	SVOCs	Benzo(a)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-045	SVOCs	Benzo(a)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-045	SVOCs	Benzo(b)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-045	SVOCs	Benzo(k)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-045	SVOCs	Chrysene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-045	SVOCs	Indeno(1,2,3-CD)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-045	SVOCs	Dibenz(a,h)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-050	VOCs	Naphthalene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-050	SVOCs	Benzo(a)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-050	SVOCs	Benzo(a)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-050	SVOCs	Benzo(b)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-050	SVOCs	Benzo(k)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-050	SVOCs	Chrysene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-050	SVOCs	Indeno(1,2,3-CD)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-050	SVOCs	Dibenz(a,h)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-055	SVOCs	Benzo(a)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-055	SVOCs	Benzo(a)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-055	SVOCs	Benzo(b)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-055	SVOCs	Benzo(k)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-055	SVOCs	Chrysene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-055	SVOCs	Indeno(1,2,3-CD)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-025	SVOCs	Benzo(a)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-025	SVOCs	Benzo(b)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-025	SVOCs	Benzo(k)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-025	SVOCs	Chrysene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-025	SVOCs	Indeno(1,2,3-CD)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-025	SVOCs	Dibenz(a,h)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-045	VOCs	Naphthalene	--	J	SH	High surrogate recovery

TABLE D.3
SUMMARY OF DATA QUALIFICATIONS
CANNON AIR FORCE BASE, NEW MEXICO

SDG	Field ID	Analysis	Analyte	NEW LOQ	URS Qual.	Code	Comments
13B028	CA504-SB501-045	SVOCs	Benzo(a)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-045	SVOCs	Benzo(a)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-045	SVOCs	Benzo(b)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-045	SVOCs	Benzo(k)fluoranthene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-045	SVOCs	Chrysene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-045	SVOCs	Indeno(1,2,3-CD)pyrene	--	J	SH	High surrogate recovery
13B028	CA504-SB501-045	SVOCs	Dibenz(a,h)anthracene	--	J	SH	High surrogate recovery
13B028	CA504-SB01-035	VOCs	Benzene	--	UJ	SL	Low surrogate recovery
13B028	CA504-SB01-035	VOCs	Ethylbenzene	--	UJ	SL	Low surrogate recovery
13B028	CA504-SB01-035	VOCs	m,p-Xylene	--	UJ	SL	Low surrogate recovery
13B028	CA504-SB01-035	VOCs	o-Xylene	--	UJ	SL	Low surrogate recovery
13B028	CA504-SB01-035	VOCs	Toluene	--	UJ	SL	Low surrogate recovery
13B028	CA504-SB501-025	VOCs	Naphthalene	--	UJ	SL	Low surrogate recovery
13B028	CA504-SB501-025	VOCs	Benzene	--	UJ	SL	Low surrogate recovery
13B028	CA504-SB501-025	VOCs	Ethylbenzene	--	UJ	SL	Low surrogate recovery
13B028	CA504-SB501-025	VOCs	m,p-Xylene	--	UJ	SL	Low surrogate recovery
13B028	CA504-SB501-025	VOCs	o-Xylene	--	UJ	SL	Low surrogate recovery
13B028	CA504-SB501-025	VOCs	Toluene	--	UJ	SL	Low surrogate recovery
13B035	CA504-SB01-100	VOCs	Benzene	--	UJ	SH	High surrogate recovery
13B035	CA504-SB01-100	VOCs	Ethylbenzene	--	UJ	SH	High surrogate recovery
13B035	CA504-SB01-100	VOCs	m,p-Xylene	--	UJ	SH	High surrogate recovery
13B035	CA504-SB01-100	VOCs	Naphthalene	--	UJ	SH	High surrogate recovery
13B035	CA504-SB01-100	VOCs	o-Xylene	--	UJ	SH	High surrogate recovery
13B035	CA504-SB01-100	VOCs	Toluene	--	UJ	SH	High surrogate recovery
13B045	CA507-SS59-001	Metals	Lead	--	J	MD	Matrix Dup RPD
13B046	CA504-SB01-110	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-115	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-115	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-115	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-120	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-120	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-120	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-120	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-125	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-125	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-125	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-125	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery
13B046	CA504-SB01-125	BTEX+N	Toluene	--	J	SH	High surrogate recovery
13B057	CA504-SB02-045	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13B057	CA504-SB02-050	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13B057	CA504-SB02-055	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13B057	CA504-SB02-055	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13B057	CA504-SB02-055	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery
13B057	CA504-SB02-060	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13B066	CA504-SB10-020	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B066	CA504-SB10-025	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B066	CA504-SB10-030	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B066	CA504-SB10-035	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B066	CA504-SB10-040	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B066	CA504-SB10-045	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B066	CA504-SB10-050	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B066	CA504-SB10-052	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B068	CA504-SB04-035	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B068	CA504-SB04-040	PAHs	All detected PAHs	--	J	SH	High surrogate recovery

TABLE D.3
SUMMARY OF DATA QUALIFICATIONS
CANNON AIR FORCE BASE, NEW MEXICO

SDG	Field ID	Analysis	Analyte	NEW LOQ	URS Qual.	Code	Comments
13B068	CA504-SB04-045	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B068	CA504-SB04-050	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B068	CA504-SB08-010	PAHs	All detected PAHs	--	J	SH	High surrogate recovery
13B070	CA507-SB16-015	Metals	Lead	--	J	CD	CCV recovery above 110%
13B077	CA504-SB03-050	VOCs	Naphthalene	--	J	SH	High surrogate recovery
13B078	CA507-SB08-005	PAHs	Benz(a)anthracene	--	J	FD	FieldDuplicate RPD >50%
13B078	CA507-SB08-005	PAHs	Benzo(a)pyrene	--	J	FD	FieldDuplicate RPD >50%
13B078	CA507-SB08-005	PAHs	Benzo(b)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13B078	CA507-SB08-005	PAHs	Benzo(k)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13B078	CA507-SB08-005	PAHs	Chrysene	--	J	FD	FieldDuplicate RPD >50%
13B078	CA507-SB08-005	PAHs	Indeno(1,2,3-cd)pyrene	--	J	FD	FieldDuplicate RPD >50%
13B078	CA507-SB508-005	PAHs	Benz(a)anthracene	--	J	FD	FieldDuplicate RPD >50%
13B078	CA507-SB508-005	PAHs	Benzo(a)pyrene	--	J	FD	FieldDuplicate RPD >50%
13B078	CA507-SB508-005	PAHs	Benzo(b)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13B078	CA507-SB508-005	PAHs	Benzo(k)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13B078	CA507-SB508-005	PAHs	Chrysene	--	J	FD	FieldDuplicate RPD >50%
13B078	CA507-SB508-005	PAHs	Indeno(1,2,3-cd)pyrene	--	J	FD	FieldDuplicate RPD >50%
13B094	CA507-SS22-001	PAHs	Benzo(b)fluoranthene	--	UJ	FD	FieldDuplicate RPD >50%
13B094	CA507-SS22-001	PAHs	Chrysene	--	UJ	FD	FieldDuplicate RPD >50%
13B094	CA507-SS22-001	Metals	Lead	--	J	FD	FieldDuplicate RPD >50%
13B094	CA507-SS522-001	PAHs	Benzo(b)fluoranthene	--	J	FD	FieldDuplicate RPD >50%
13B094	CA507-SS522-001	PAHs	Chrysene	--	J	FD	FieldDuplicate RPD >50%
13B094	CA507-SS522-001	Metals	Lead	--	J	FD	FieldDuplicate RPD >50%
13B108	CA504-SB16-015	BTEX+N	All detects/nondetects	--	J/UJ	HT	Samples rec <2X 48 hour holding time
13B108	CA504-SB16-020	BTEX+N	All detects/nondetects	--	J/UJ	HT	Samples rec <2X 48 hour holding time
13B108	CA504-SB16-025	BTEX+N	All detects/nondetects	--	J/UJ	HT	Samples rec <2X 48 hour holding time
13B108	CA504-SB16-030	BTEX+N	All detects/nondetects	--	J/UJ	HT	Samples rec <2X 48 hour holding time
13B108	CA504-SB16-035	BTEX+N	All detects/nondetects	--	J/UJ	HT	Samples rec <2X 48 hour holding time
13B108	CA504-SB16-040	BTEX+N	All detects/nondetects	--	J/UJ	HT	Samples rec <2X 48 hour holding time
13B108	CA504-SB516-020	BTEX+N	All detects/nondetects	--	J/UJ	HT	Samples rec <2X 48 hour holding time
13B108	CA504-SB516-025	BTEX+N	All detects/nondetects	--	J/UJ	HT	Samples rec <2X 48 hour holding time
13B108	CA504-SB516-030	BTEX+N	All detects/nondetects	--	J/UJ	HT	Samples rec <2X 48 hour holding time
13D102	CA505-SB501-015	SVOCs	benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB01-015	SVOCs	benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB501-020	SVOCs	benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB01-020	SVOCs	benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB01-025	SVOCs	benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB01-030	SVOCs	benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB07-005	SVOCs	benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB07-010	SVOCs	benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB07-015	SVOCs	benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB07-020	SVOCs	benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB07-025	SVOCs	benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB10-005	SVOCs	benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB10-010	SVOCs	benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D102	CA505-SB10-015	SVOCs	benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB10-020	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB10-024	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB02-005	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB502-005	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB02-010	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB502-010	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB02-015	SVOCs	Benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB02-020	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria

TABLE D.3
SUMMARY OF DATA QUALIFICATIONS
CANNON AIR FORCE BASE, NEW MEXICO

SDG	Field ID	Analysis	Analyte	NEW LOQ	URS Qual.	Code	Comments
13D098	CA505-SB02-025	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB02-030	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB06-005	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB06-010	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB06-015	SVOCs	Benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB06-020	SVOCs	Benzo(a)anthracene	--	J	CD	CV %D Outside Evaluation Criteria
13D098	CA505-SB06-025	SVOCs	Benzo(a)anthracene	--	UJ	CD	CV %D Outside Evaluation Criteria
13G037	CA504-SB01-160	BTEX+N	Benzene	--	UJ	SL	Low surrogate recovery
13G037	CA504-SB01-160	BTEX+N	Ethylbenzene	--	J	SL	Low surrogate recovery
13G037	CA504-SB01-160	BTEX+N	m,p-Xylene	--	J	SL	Low surrogate recovery
13G037	CA504-SB01-160	BTEX+N	Naphthalene	--	J	SL	Low surrogate recovery
13G037	CA504-SB01-160	BTEX+N	o-Xylene	--	J	SL	Low surrogate recovery
13G037	CA504-SB01-160	BTEX+N	Toluene	--	J	SL	Low surrogate recovery
13G037	CA504-SB501-160	BTEX+N	Benzene	--	UJ	SL	Low surrogate recovery
13G037	CA504-SB501-160	BTEX+N	Ethylbenzene	--	J	SL	Low surrogate recovery
13G037	CA504-SB501-160	BTEX+N	m,p-Xylene	--	J	SL	Low surrogate recovery
13G037	CA504-SB501-160	BTEX+N	Naphthalene	--	J	SL	Low surrogate recovery
13G037	CA504-SB501-160	BTEX+N	o-Xylene	--	J	SL	Low surrogate recovery
13G037	CA504-SB501-160	BTEX+N	Toluene	--	J	SL	Low surrogate recovery
13G037	CA504-SB01-165	BTEX+N	Benzene	--	UJ	SL	Low surrogate recovery
13G037	CA504-SB01-165	BTEX+N	Ethylbenzene	--	J	SL	Low surrogate recovery
13G037	CA504-SB01-165	BTEX+N	m,p-Xylene	--	J	SL	Low surrogate recovery
13G037	CA504-SB01-165	BTEX+N	Naphthalene	--	J	SL	Low surrogate recovery
13G037	CA504-SB01-165	BTEX+N	o-Xylene	--	J	SL	Low surrogate recovery
13G037	CA504-SB01-165	BTEX+N	Toluene	--	J	SL	Low surrogate recovery
13G037	CA504-SB01-170	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-170	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-170	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-170	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-170	BTEX+N	Toluene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-175	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-175	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-175	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-175	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-175	BTEX+N	Toluene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-180	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-180	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-180	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-180	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-180	BTEX+N	Toluene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-185	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-185	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-185	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-185	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-185	BTEX+N	Toluene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-190	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-190	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-190	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-190	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-190	BTEX+N	Toluene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-195	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-195	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-195	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-195	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery

TABLE D.3
SUMMARY OF DATA QUALIFICATIONS
CANNON AIR FORCE BASE, NEW MEXICO

SDG	Field ID	Analysis	Analyte	NEW LOQ	URS Qual.	Code	Comments
13G037	CA504-SB01-200	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-200	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-200	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-200	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-205	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-205	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-205	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-205	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-205	BTEX+N	Toluene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-210	BTEX+N	Ethylbenzene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-210	BTEX+N	m,p-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-210	BTEX+N	Naphthalene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-210	BTEX+N	o-Xylene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-210	BTEX+N	Toluene	--	J	SH	High surrogate recovery
13G037	CA504-SB01-135	BTEX+N	m,p-Xylene	--	J	FD	FieldDuplicate RPD >50%
13G037	CA504-SB01-135	BTEX+N	o-Xylene	--	J	FD	FieldDuplicate RPD >50%
13G037	CA504-SB501-135	BTEX+N	m,p-Xylene	--	J	FD	FieldDuplicate RPD >50%
13G037	CA504-SB501-135	BTEX+N	o-Xylene	--	J	FD	FieldDuplicate RPD >50%

Notes:
SH = High surrogate recovery
IR = Ion abundance ratios
MD = Matrix duplicate
RPD = Relative percent difference
PJ = Professional judgment
FD = Field duplicate
IS = Internal standard
CB = Continuing calibration blank contamination
SD = Serial dilution
SL = Low surrogate recovery
CCB = Continuing calibration blank
CD = CCV %D outside evaluation criteria
CCV = Continuing calibration verification
%D = Percent difference
HT = Holding time
<2X = Less than two times

IDW Analytical Results

METHOD SW5035A/8260B
VOLATILE ORGANICS BY GC/MS

Client	: URS GROUP, INC.	Date Collected:	07/12/13
Project	: CANNON AFB SI AT EIGHT SITES	Date Received:	07/13/13
Batch No.	: 13G057	Date Extracted:	07/18/13 20:30
Sample ID:	CA-IDW-01	Date Analyzed:	07/18/13 20:30
Lab Samp ID:	G057-01R	Dilution Factor:	0.97
Lab File ID:	RGP198	Matrix :	SOIL
Ext Btch ID:	VS02G14	% Moisture :	4.9
Calib. Ref.:	RGP043	Instrument ID :	T-002

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
1,1,1,2-TETRACHLOROETHANE	ND	0.0051	0.0020	0.0031
1,1,1-TRICHLOROETHANE	ND	0.0051	0.0020	0.0031
1,1,2,2-TETRACHLOROETHANE	ND	0.0051	0.0020	0.0031
1,1,2-TRICHLOROETHANE	ND	0.0051	0.0020	0.0031
1,1-DICHLOROETHANE	ND	0.0051	0.0020	0.0031
1,1-DICHLOROETHENE	ND	0.0051	0.0020	0.0031
1,1-DICHLOROPROPENE	ND	0.0051	0.0020	0.0031
1,2,3-TRICHLOROBENZENE	ND	0.0051	0.0020	0.0031
1,2,3-TRICHLOROPROPANE	ND	0.0051	0.0020	0.0031
1,2,4-TRICHLOROBENZENE	ND	0.0051	0.0020	0.0031
1,2,4-TRIMETHYLBENZENE	ND	0.0051	0.0020	0.0031
1,2-DIBROMO-3-CHLOROPROPANE	ND	0.010	0.0020	0.0051
1,2-DIBROMOETHANE	ND	0.0051	0.0020	0.0031
1,2-DICHLOROBENZENE	ND	0.0051	0.0020	0.0031
1,2-DICHLOROETHANE	ND	0.0051	0.0020	0.0031
1,2-DICHLOROPROPANE	ND	0.0051	0.0020	0.0031
1,3,5-TRIMETHYLBENZENE	ND	0.0051	0.0020	0.0031
1,3-DICHLOROBENZENE	ND	0.0051	0.0020	0.0031
1,3-DICHLOROPROPANE	ND	0.0051	0.0020	0.0031
1,4-DICHLOROBENZENE	ND	0.0051	0.0020	0.0031
2,2-DICHLOROPROPANE	ND	0.0051	0.0020	0.0031
2-BUTANONE	ND	0.010	0.0025	0.0051
2-CHLOROTOLUENE	ND	0.0051	0.0020	0.0031
2-HEXANONE	ND	0.020	0.0051	0.010
4-CHLOROTOLUENE	ND	0.0051	0.0020	0.0031
4-METHYL-2-PENTANONE	ND	0.020	0.0051	0.010
ACETONE	ND	0.010	0.0032	0.0051
BENZENE	ND	0.0051	0.0020	0.0031
BROMOBENZENE	ND	0.0051	0.0020	0.0031
BROMOCHLOROMETHANE	ND	0.0051	0.0020	0.0031
BROMODICHLOROMETHANE	ND	0.0051	0.0020	0.0031
BROMOFORM	ND	0.0051	0.0020	0.0031
BROMOMETHANE	ND	0.010	0.0020	0.0051
CARBON DISULFIDE	ND	0.0051	0.0020	0.0031
CARBON TETRACHLORIDE	ND	0.0051	0.0020	0.0031
CHLOROBENZENE	ND	0.0051	0.0020	0.0031
CHLOROETHANE	ND	0.0051	0.0020	0.0031
CHLOROFORM	ND	0.0051	0.0020	0.0031
CHLOROMETHANE	ND	0.010	0.0020	0.0031
CIS-1,2-DICHLOROETHENE	ND	0.0051	0.0020	0.0031
CIS-1,3-DICHLOROPROPENE	ND	0.0051	0.0020	0.0031
DIBROMOCHLOROMETHANE	ND	0.0051	0.0020	0.0031
DIBROMOMETHANE	ND	0.0051	0.0020	0.0031
DICHLORODIFLUOROMETHANE	ND	0.010	0.0020	0.0031
ETHYLBENZENE	ND	0.0051	0.0020	0.0031
HEXACHLOROBUTADIENE	ND	0.0051	0.0020	0.0031
ISOPROPYL BENZENE	ND	0.0051	0.0020	0.0031
M,P-XYLENE	ND	0.010	0.0020	0.0051
METHYLENE CHLORIDE	ND	0.010	0.0020	0.0051
NAPHTHALENE	0.0022J	0.0051	0.0020	0.0031
N-BUTYLBENZENE	ND	0.0051	0.0020	0.0031
N-PROPYLBENZENE	ND	0.0051	0.0020	0.0031
O-XYLENE	ND	0.0051	0.0020	0.0031
P-ISOPROPYLTOLUENE	ND	0.0051	0.0020	0.0031
SEC-BUTYLBENZENE	ND	0.0051	0.0020	0.0031
STYRENE	ND	0.0051	0.0020	0.0031
TERT-BUTYLBENZENE	ND	0.0051	0.0020	0.0031
TETRACHLOROETHENE	ND	0.0051	0.0020	0.0031
TOLUENE	ND	0.0051	0.0020	0.0031
TRANS-1,2-DICHLOROETHENE	ND	0.0051	0.0020	0.0031
TRANS-1,3-DICHLOROPROPENE	ND	0.0051	0.0020	0.0031
TRICHLOROETHENE	ND	0.0051	0.0020	0.0031
TRICHLOROFLUOROMETHANE	ND	0.0051	0.0020	0.0031
VINYL CHLORIDE	ND	0.0051	0.0020	0.0031

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
4-BROMOFLUOROBENZENE	0.0452	0.05100	88.7	85-120
TOLUENE-D8	0.0528	0.05100	103	85-115

METHOD SW3550B/8270D
SEMI VOLATILE ORGANICS BY GC/MS

Client	: URS GROUP, INC.	Date Collected:	07/12/13
Project	: CANNON AFB SI AT EIGHT SITES	Date Received:	07/13/13
Batch No.	: 13G057	Date Extracted:	07/16/13 15:56
Sample ID:	CA-IDW-01	Date Analyzed:	07/17/13 15:34
Lab Samp ID:	G057-01	Dilution Factor:	1
Lab File ID:	RGJ232	Matrix :	SOIL
Ext Btch ID:	SVG021S	% Moisture :	4.9
Calib. Ref.:	RDJ086	Instrument ID :	T-OE4

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
1,2,4-TRICHLOROBENZENE	ND	0.35	0.087	0.18
1,2-DICHLOROBENZENE	ND	0.35	0.087	0.18
1,3-DICHLOROBENZENE	ND	0.35	0.087	0.18
1,4-DICHLOROBENZENE	ND	0.35	0.087	0.18
2,4,5-TRICHLOROPHENOL	ND	0.35	0.096	0.18
2,4,6-TRICHLOROPHENOL	ND	0.35	0.087	0.18
2,4-DICHLOROPHENOL	ND	0.35	0.087	0.18
2,4-DIMETHYLPHENOL	ND	0.35	0.087	0.18
2,4-DINITROPHENOL	ND	0.69	0.090	0.35
2,4-DINITROTOLUENE	ND	0.35	0.087	0.18
2,6-DINITROTOLUENE	ND	0.35	0.087	0.18
2-CHLORONAPHTHALENE	ND	0.35	0.087	0.18
2-CHLOROPHENOL	ND	0.35	0.087	0.18
2-METHYLPHENOL	ND	0.35	0.087	0.18
2-NITROANILINE	ND	0.35	0.087	0.18
2-NITROPHENOL	ND	0.35	0.087	0.18
3&4-METHYLPHENOL	ND	0.35	0.087	0.18
3-NITROANILINE	ND	0.35	0.087	0.18
4,6-DINITRO-2-METHYLPHENOL	ND	0.69	0.087	0.35
4-BROMOPHENYL-PHENYLETHER	ND	0.35	0.095	0.18
4-CHLORO-3-METHYLPHENOL	ND	0.35	0.087	0.18
4-CHLOROPHENYL-PHENYLETHER	ND	0.35	0.087	0.18
4-NITROANILINE	ND	0.35	0.13	0.18
4-NITROPHENOL	ND	0.69	0.11	0.18
BENZYL ALCOHOL	ND	1.4	0.087	0.69
BIS(2-CHLOROISOPROPYL)ETHER	ND	0.35	0.087	0.18
BIS(2-CHLOROETHOXY)METHANE	ND	0.35	0.087	0.18
BIS(2-CHLOROETHYL)ETHER	ND	0.35	0.087	0.18
BIS(2-ETHYLHEXYL)PHTHALATE	ND	0.35	0.12	0.18
BUTYLBENZYLPHTHALATE	ND	0.35	0.087	0.18
CARBAZOLE	ND	0.35	0.094	0.18
DIBENZOFURAN	ND	0.35	0.087	0.18
DIETHYLPHTHALATE	ND	0.35	0.087	0.18
DIMETHYLPHTHALATE	ND	0.35	0.087	0.18
DI-N-BUTYLPHTHALATE	ND	0.35	0.10	0.18
DI-N-OCTYLPHTHALATE	ND	0.35	0.10	0.18
HEXACHLOROBENZENE	ND	0.35	0.087	0.18
HEXACHLOROBUTADIENE	ND	0.35	0.087	0.18
HEXACHLOROETHANE	ND	0.35	0.087	0.18
ISOPHORONE	ND	0.35	0.087	0.18
NITROBENZENE	ND	0.35	0.087	0.18
N-NITROSODIMETHYLAMINE	ND	0.35	0.087	0.18
N-NITROSO-DI-N-PROPYLAMINE	ND	0.35	0.087	0.18
N-NITROSODIPHENYLAMINE (1)	ND	0.35	0.16	0.18
PENTACHLOROPHENOL	ND	0.69	0.087	0.35
PHENOL	ND	0.35	0.087	0.18

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
2,4,6-TRIBROMOPHENOL	1.76	2.103	83.9	35-125
2-FLUOROBIPHENYL	0.435	0.7011	62.0	45-105
2-FLUOROPHENOL	1.37	2.103	64.9	35-105
NITROBENZENE-D5	0.433	0.7011	61.7	35-100
PHENOL-D5	1.42	2.103	67.7	40-100
TERPHENYL-D14	0.621	0.7011	88.6	30-125

(1): Cannot be separated from Diphenylamine

METHOD SW3550B/8270D SIM
PAH BY GC/MS SIM

Client	: URS GROUP, INC.	Date Collected:	07/12/13
Project	: CANNON AFB SI AT EIGHT SITES	Date Received:	07/13/13
Batch No.	: 13G057	Date Extracted:	07/16/13 15:56
Sample ID:	CA-IDW-01	Date Analyzed:	07/17/13 15:34
Lab Samp ID:	G057-01	Dilution Factor:	1
Lab File ID:	RGJ232	Matrix :	SOIL
Ext Btch ID:	SVG021S	% Moisture :	4.9
Calib. Ref.:	RDJ086	Instrument ID :	T-OE4

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
2-METHYLNAPHTHALENE	0.039	0.011	0.0026	0.0053
ACENAPHTHENE	0.031	0.011	0.0026	0.0053
ACENAPHTHYLENE	0.0063J	0.011	0.0026	0.0053
ANTHRACENE	ND	0.011	0.0026	0.0053
BENZO(A)ANTHRACENE	0.016	0.011	0.0026	0.0053
BENZO(A)PYRENE	0.0099J	0.011	0.0026	0.0053
BENZO(B)FLUORANTHENE	0.016	0.011	0.0026	0.0053
BENZO(K)FLUORANTHENE	0.0043J	0.011	0.0026	0.0053
BENZO(G,H,I)PERYLENE	0.0076J	0.011	0.0026	0.0053
CHRYSENE	0.025	0.011	0.0026	0.0053
DIBENZ(A,H)ANTHRACENE	ND	0.011	0.0026	0.0053
FLUORANTHENE	0.034	0.011	0.0026	0.0053
FLUORENE	0.027	0.011	0.0026	0.0053
INDENO(1,2,3-CD)PYRENE	0.0065J	0.011	0.0026	0.0053
NAPHTHALENE	0.032	0.011	0.0026	0.0053
PHENANTHRENE	0.16	0.011	0.0026	0.0053
PYRENE	0.12	0.011	0.0026	0.0053

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
TERPHENYL-D14	0.656	0.7011	93.6	30-125

METHOD SW5035/8015C
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: URS GROUP, INC.	Date Collected:	07/12/13
Project	: CANNON AFB SI AT EIGHT SITES	Date Received:	07/13/13
Batch No.	: 13G057	Date Extracted:	07/16/13 14:22
Sample ID:	CA-IDW-01	Date Analyzed:	07/16/13 14:22
Lab Samp ID:	G057-01	Dilution Factor:	0.98
Lab File ID:	EG16008A	Matrix :	SOIL
Ext Btch ID:	GMG009S	% Moisture :	4.9
Calib. Ref.:	EG16004A	Instrument ID :	GCT039

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
GRO	0.37J	1.0	0.36	0.52

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.56	2.061	75.9	50-150
1,1,1-TRIFLUOROTOLUENE	1.64	2.061	79.5	50-150

Parameter	H-C Range
GRO	C6-C10

METHOD SW3550B/8015C
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: URS GROUP, INC.	Date Collected:	07/12/13
Project	: CANNON AFB SI AT EIGHT SITES	Date Received:	07/13/13
Batch No.	: 13G057	Date Extracted:	07/16/13 13:03
Sample ID:	CA-IDW-01	Date Analyzed:	07/16/13 18:44
Lab Samp ID:	G057-01	Dilution Factor:	1
Lab File ID:	LG16026A	Matrix :	SOIL
Ext Btch ID:	DSG016S	% Moisture :	4.9
Calib. Ref.:	LG16015A	Instrument ID :	GCT105

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
DRO	440	11	2.6	5.3

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.0	105.2	65.6	50-150
HEXACOSANE	24.2	26.29	92.0	50-150

Parameter	H-C Range
DRO	C10-C28

METHOD SW3550B/8015C
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: URS GROUP, INC.	Date Collected:	07/12/13
Project	: CANNON AFB SI AT EIGHT SITES	Date Received:	07/13/13
Batch No.	: 13G057	Date Extracted:	07/16/13 13:03
Sample ID:	CA-IDW-01	Date Analyzed:	07/16/13 18:44
Lab Samp ID:	G057-01	Dilution Factor:	1
Lab File ID:	LG16026A	Matrix :	SOIL
Ext Btch ID:	DSG016S	% Moisture :	4.9
Calib. Ref.:	LG16015A	Instrument ID :	GCT105

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
ORO	ND	21	5.3	11

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	69.0	105.2	65.6	50-150
HEXACOSANE	24.2	26.29	92.0	50-150

Parameter	H-C Range
ORO	C28-C35

METHOD SW3550B/8081B
PESTICIDES

Client	: URS GROUP, INC.	Date Collected:	07/12/13
Project	: CANNON AFB SI AT EIGHT SITES	Date Received:	07/13/13
Batch No.	: 13G057	Date Extracted:	07/16/13 12:46
Sample ID:	CA-IDW-01	Date Analyzed:	07/17/13 00:14
Lab Samp ID:	G057-01	Dilution Factor:	1
Lab File ID:	MG16042A	Matrix :	SOIL
Ext Btch ID:	CPG016S	% Moisture :	4.9
Calib. Ref.:	MG16034A	Instrument ID :	E8

PARAMETERS	RESULTS (mg/kg)		LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
4,4'-DDD	(ND)	0.0084	0.0042	0.0013	0.0025
4,4'-DDE	0.0031J	(ND)	0.0042	0.0013	0.0025
4,4'-DDT	0.0034J	(ND)	0.0042	0.0013	0.0025
ALDRIN	0.0043	(ND)	0.0021	0.00063	0.0013
ALPHA-BHC	(ND)	ND	0.0021	0.00063	0.0013
ALPHA-CHLORDANE	0.0012J	(ND)	0.0021	0.00063	0.0013
BETA-BHC	(ND)	ND	0.0021	0.00063	0.0013
DELTA-BHC	(ND)	ND	0.0021	0.00063	0.0013
DIELDRIN	0.0019J	(ND)	0.0042	0.0013	0.0025
ENDOSULFAN I	(ND)	0.0029	0.0021	0.00063	0.0013
ENDOSULFAN II	(ND)	ND	0.0042	0.0013	0.0025
ENDOSULFAN SULFATE	(ND)	ND	0.0042	0.0016	0.0032
ENDRIN	0.0045	(ND)	0.0042	0.0013	0.0025
ENDRIN ALDEHYDE	(ND)	ND	0.0042	0.0013	0.0025
ENDRIN KETONE	(ND)	ND	0.0042	0.0013	0.0025
GAMMA-BHC	(ND)	0.0077	0.0021	0.00063	0.0013
GAMMA-CHLORDANE	0.0038	(ND)	0.0021	0.00063	0.0013
HEPTACHLOR	(ND)	ND	0.0021	0.00063	0.0013
HEPTACHLOR EPOXIDE	(ND)	ND	0.0021	0.00063	0.0013
METHOXYCHLOR	0.0083J	(ND)	0.021	0.0042	0.0084

SURROGATE PARAMETERS	RESULTS		SPK_AMT	% RECOVERY		QC LIMIT
DECACHLOROBIPHENYL	(0.01317)	0.01192	0.01399	(94.2)	85.3	55-130
TETRACHLORO-M-XYLENE	(0.01293)	0.009566	0.01399	(92.4)	68.4*	70-125

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METHOD SW3550B/8082A
PCBs

Client	: URS GROUP, INC.	Date Collected:	07/12/13
Project	: CANNON AFB SI AT EIGHT SITES	Date Received:	07/13/13
Batch No.	: 13G057	Date Extracted:	07/16/13 12:46
Sample ID:	CA-IDW-01	Date Analyzed:	07/17/13 00:16
Lab Samp ID:	G057-01	Dilution Factor:	1
Lab File ID:	KG16028A	Matrix	: SOIL
Ext Btch ID:	CPG016S	% Moisture	: 4.9
Calib. Ref.:	KG16023A	Instrument ID	: 71

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
PCB-1016	(ND)|ND	0.053	0.021	0.035
PCB-1221	(ND)|ND	0.053	0.021	0.035
PCB-1232	(ND)|ND	0.053	0.021	0.035
PCB-1242	(ND)|ND	0.053	0.021	0.035
PCB-1248	(ND)|ND	0.053	0.021	0.035
PCB-1254	(ND)|ND	0.053	0.021	0.035
PCB-1260	(ND)|ND	0.053	0.021	0.035

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
DECACHLOROBIPHENYL	(0.01501)|0.01431	0.01402	(107)|102	60-125

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Final result indicated by ( )
* Out side of QC Limit

METHOD SW8330A
EXPLOSIVES

Client	: URS GROUP, INC.	Date Collected:	07/12/13
Project	: CANNON AFB SI AT EIGHT SITES	Date Received:	07/13/13
Batch No.	: 13G057	Date Extracted:	07/16/13 18:13
Sample ID:	CA-IDW-01	Date Analyzed:	07/17/13 14:40
Lab Samp ID:	G057-01	Dilution Factor:	.99
Lab File ID:	XG17006A	Matrix :	SOIL
Ext Btch ID:	EXG005S	% Moisture :	NA
Calib. Ref.:	XG17002A	Instrument ID :	T-081

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
HMX	ND	0.20	0.050	0.099
RDX	ND	0.20	0.050	0.099
1,3,5-TRINITROBENZENE	ND	0.20	0.050	0.099
1,3-DINITROBENZENE	ND	0.20	0.050	0.099
TETRYL	ND	0.20	0.056	0.099
NITROBENZENE	ND	0.20	0.050	0.099
2,4,6-TRINITROTOLUENE	ND	0.20	0.050	0.099
4-AMINO-2,6-DINITROTOLUENE	ND	0.20	0.050	0.099
2-AMINO-4,6-DINITROTOLUENE	ND	0.20	0.050	0.099
2,6-DINITROTOLUENE	ND	0.20	0.055	0.099
2,4-DINITROTOLUENE	ND	0.20	0.054	0.099
2-NITROTOLUENE	ND	0.20	0.075	0.099
3-NITROTOLUENE	ND	0.20	0.094	0.099
4-NITROTOLUENE	ND	0.20	0.098	0.099

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
3,4-DINITROTOLUENE	2.44	1.980	123	70-130

Note: All positive results are confirmed by Phenyl-Hexyl column

METHOD SW6020A
RCRA METALS BY ICP-MS

Client	: URS GROUP, INC.	Date Collected:	07/12/13
Project	: CANNON AFB SI AT EIGHT SITES	Date Received:	07/13/13
SDG NO.	: 13G057	Date Extracted:	07/16/13 14:00
Sample ID:	CA-IDW-01	Date Analyzed:	07/17/13 16:02
Lab Samp ID:	G057-01	Dilution Factor:	0.990
Lab File ID:	F6G07042	Matrix :	SOIL
Ext Btch ID:	IMG018S	% Moisture :	4.9
Calib. Ref.:	F6G07036	Instrument ID :	T-IF6

PARAMETERS	RESULTS (mg/kg)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)
Arsenic	1.68	0.521	0.0521	0.104
Barium	226	0.521	0.0750	0.104
Cadmium	0.133J	0.521	0.0593	0.104
Chromium	6.81	0.521	0.0521	0.104
Lead	5.46	0.521	0.0521	0.104
Selenium	0.0643J	0.521	0.0521	0.104
Silver	ND	0.521	0.0521	0.104

METHOD SW7471B
MERCURY BY COLD VAPOR

Client : URS GROUP, INC.
Project : CANNON AFB SI AT EIGHT SITES
Batch No. : 13G057

Matrix : SOIL
InstrumentID : 47

CLIENT SAMPLE ID	EMAX SAMPLE ID	RESULTS (mg/kg)	DIL'N FACTOR	MOIST (%)	LOQ (mg/kg)	DL (mg/kg)	LOD (mg/kg)	ANALYSIS DATETIME	PREPARATION DATETIME	DATA FILE ID	CAL REF	PREP BATCH	COLLECTION DATETIME	RECEIVED DATETIME
MBLK1S	HGG013SB	ND	1	NA	0.100	0.0100	0.0330	07/18/1316:23	07/18/1313:50	M47G008011	M47G008	HGG013S	NA	NA
LCS1S	HGG013SL	0.786	1	NA	0.0997	0.00997	0.0329	07/18/1316:26	07/18/1313:50	M47G008012	M47G008	HGG013S	NA	NA
CA-IDW-01	G057-01	ND	1	4.9	0.105	0.0105	0.0346	07/18/1316:30	07/18/1313:50	M47G008014	M47G008	HGG013S	07/12/1310:00	07/13/13
CA-IDW-01MS	G057-01M	0.820	1	4.9	0.104	0.0104	0.0342	07/18/1316:36	07/18/1313:50	M47G008016	M47G008	HGG013S	07/12/1310:00	07/13/13
CA-IDW-01DUP	G057-01D	ND	1	4.9	0.105	0.0105	0.0346	07/18/1316:38	07/18/1313:50	M47G008017	M47G008	HGG013S	07/12/1310:00	07/13/13

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Emax Laboratories, Incorporated	**Service Request:**	E1300921
Project:	CANNON AFB SI/13G057	**Date Collected:**	7/12/13 1000
Sample Matrix:	Soil	**Date Received:**	7/13/13
Sample Name:	CA-IDW-01	**Units:**	ng/Kg
Lab Code:	E1300921-001	**Basis:**	Dry
		Percent Solids:	94.6

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method

Native Analyte Results

Analyte Name	Result	Q	EDL	LOD	LOQ	Ion Ratio	RRT	Dilution Factor	Date Analyzed	Time Analyzed	Date Extracted
2,3,7,8-TCDD	ND	U	0.109	0.154	0.514			1	7/18/13	1722	7/15/13
1,2,3,7,8-PeCDD	ND	U	0.0414	0.770	2.57			1	7/18/13	1722	7/15/13
1,2,3,4,7,8-HxCDD	ND	U	0.0643	0.770	2.57			1	7/18/13	1722	7/15/13
1,2,3,6,7,8-HxCDD	ND	U	0.0663	0.770	2.57			1	7/18/13	1722	7/15/13
1,2,3,7,8,9-HxCDD	ND	U	0.0642	0.770	2.57			1	7/18/13	1722	7/15/13
1,2,3,4,6,7,8-HpCDD	**0.853**	BJ	0.0735	0.770	2.57	1.08	1.000	1	7/18/13	1722	7/15/13
OCDD	**8.45**	B	0.127	1.54	5.14	0.92	1.000	1	7/18/13	1722	7/15/13
2,3,7,8-TCDF	ND	U	0.0479	0.154	0.514			1	7/18/13	1722	7/15/13
1,2,3,7,8-PeCDF	ND	U	0.0692	0.770	2.57			1	7/18/13	1722	7/15/13
2,3,4,7,8-PeCDF	ND	U	0.0691	0.770	2.57			1	7/18/13	1722	7/15/13
1,2,3,4,7,8-HxCDF	ND	U	0.0616	0.770	2.57			1	7/18/13	1722	7/15/13
1,2,3,6,7,8-HxCDF	ND	U	0.0546	0.770	2.57			1	7/18/13	1722	7/15/13
1,2,3,7,8,9-HxCDF	ND	U	0.0788	0.770	2.57			1	7/18/13	1722	7/15/13
2,3,4,6,7,8-HxCDF	ND	U	0.0554	0.770	2.57			1	7/18/13	1722	7/15/13
1,2,3,4,6,7,8-HpCDF	**0.253**	BJK	0.0476	0.770	2.57	1.41	1.000	1	7/18/13	1722	7/15/13
1,2,3,4,7,8,9-HpCDF	**0.0692**	J	0.0664	0.770	2.57	1.13	1.000	1	7/18/13	1722	7/15/13
OCDF	**0.558**	BJK	0.149	1.54	5.14	0.49	1.004	1	7/18/13	1722	7/15/13
Total Tetra-Dioxins	ND	U	0.109	0.154	0.514			1	7/18/13	1722	7/15/13
Total Penta-Dioxins	ND	U	0.0414	0.770	2.57			1	7/18/13	1722	7/15/13
Total Hexa-Dioxins	ND	U	0.0650	0.770	2.57			1	7/18/13	1722	7/15/13
Total Hepta-Dioxins	**0.853**	J	0.0735	0.770	2.57	1.08		1	7/18/13	1722	7/15/13
Total Tetra-Furans	ND	U	0.0479	0.154	0.514			1	7/18/13	1722	7/15/13
Total Penta-Furans	ND	U	0.0692	0.770	2.57			1	7/18/13	1722	7/15/13
Total Hexa-Furans	**0.214**	J	0.0615	0.770	2.57	1.11		1	7/18/13	1722	7/15/13
Total Hepta-Furans	**0.483**	J	0.0560	0.770	2.57	1.08		1	7/18/13	1722	7/15/13

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Emax Laboratories, Incorporated	**Service Request:**	E1300921
Project:	CANNON AFB SI/13G057	**Date Collected:**	7/12/13 1000
Sample Matrix:	Soil	**Date Received:**	7/13/13
Sample Name:	CA-IDW-01	**Units:**	Percent
Lab Code:	E1300921-001	**Basis:**	Dry
		Percent Solids:	94.6

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	%Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1461.256	73		40-135	0.79	1.009
13C-1,2,3,7,8-PeCDD	2000	1293.815	65		40-135	1.59	1.178
13C-1,2,3,4,7,8-HxCDD	2000	1199.395	60		40-135	1.28	0.990
13C-1,2,3,6,7,8-HxCDD	2000	1306.655	65		40-135	1.27	0.992
13C-1,2,3,4,6,7,8-HpCDD	2000	1328.600	66		40-135	1.09	1.069
13C-OCDD	4000	2155.103	54		40-135	0.89	1.148
13C-2,3,7,8-TCDF	2000	1476.050	74		40-135	0.78	0.977
13C-1,2,3,7,8-PeCDF	2000	1238.561	62		40-135	1.57	1.138
13C-2,3,4,7,8-PeCDF	2000	1244.463	62		40-135	1.59	1.165
13C-1,2,3,4,7,8-HxCDF	2000	1191.393	60		40-135	0.52	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1387.819	69		40-135	0.51	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1301.086	65		40-135	0.51	1.006
13C-2,3,4,6,7,8-HxCDF	2000	1412.493	71		40-135	0.53	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1190.336	60		40-135	0.45	1.045
13C-1,2,3,4,7,8,9-HpCDF	2000	1246.237	62		40-135	0.45	1.080
37Cl-2,3,7,8-TCDD	800	677.320	85		40-135	NA	1.009

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Emax Laboratories, Incorporated	**Service Request:**	E1300921
Project:	CANNON AFB SI/13G057	**Date Collected:**	7/12/13 1000
Sample Matrix:	Soil	**Date Received:**	7/13/13
Sample Name:	CA-IDW-01	**Units:**	ng/Kg
Lab Code:	E1300921-001	**Basis:**	Dry

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analytical Method: 8290
Prep Method: Method

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	ND	0.109	0.514	1	1	
1,2,3,7,8-PeCDD	ND	0.0414	2.57	1	1	
1,2,3,4,7,8-HxCDD	ND	0.0643	2.57	1	0.1	
1,2,3,6,7,8-HxCDD	ND	0.0663	2.57	1	0.1	
1,2,3,7,8,9-HxCDD	ND	0.0642	2.57	1	0.1	
1,2,3,4,6,7,8-HpCDD	**0.853**	0.0735	2.57	1	0.01	0.00853
OCDD	**8.45**	0.127	5.14	1	0.0003	0.00254
2,3,7,8-TCDF	ND	0.0479	0.514	1	0.1	
1,2,3,7,8-PeCDF	ND	0.0692	2.57	1	0.03	
2,3,4,7,8-PeCDF	ND	0.0691	2.57	1	0.3	
1,2,3,4,7,8-HxCDF	ND	0.0616	2.57	1	0.1	
1,2,3,6,7,8-HxCDF	ND	0.0546	2.57	1	0.1	
1,2,3,7,8,9-HxCDF	ND	0.0788	2.57	1	0.1	
2,3,4,6,7,8-HxCDF	ND	0.0554	2.57	1	0.1	
1,2,3,4,6,7,8-HpCDF	**0.253**	0.0476	2.57	1	0.01	0.00253
1,2,3,4,7,8,9-HpCDF	**0.0692**	0.0664	2.57	1	0.01	0.000692
OCDF	**0.558**	0.149	5.14	1	0.0003	0.000167
		Total TEQ				0.0145

2005 WHO TEFs, ND = 0

Client:	Emax Laboratories, Incorporated	**Service Request:**	E1300921
Project:	CANNON AFB SI/13G057	**Date Collected:**	7/12/13 1000
Sample Matrix:	Soil	**Date Received:**	7/13/13
Sample Name:	CA-IDW-01	**Units:**	Percent
Lab Code:	E1300921-001	**Basis:**	As Received

Total Solids Run Create

Analytical Method: CAS SOP

Analyte Name	Result	Q	LOQ	LOD	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Total Solids	94.6				1	NA	7/16/13 17:31		349040	

IDW PCB Certification

PCB CERTIFICATION

I, Anita La Fuente (customer representative) certify that, within my company I would have knowledge concerning the accuracy of the following representations, and that the following representations are true and correct to the best of my knowledge:

☒ Check this section if the customer has "historic" contamination, and cannot attribute the contamination to any particular source:

1. I am unable to locate any records which indicate that a spill of Polychlorinated Biphenyls (PCBs) occurred subsequent to February 17, 1978 which could have contaminated the material accompanying this certification.
2. Any PCBs detected in the material accompanying this certification resulted from a spill of PCBs that occurred prior to February 17, 1978.

☒ Check this section when the spill occurred after February 17, 1978 and the customer has no record or knowledge that the contaminant source had concentrations below 50 ppm. Please submit any pertinent sampling data attached to this certification (check one below).

☒ The materials accompanying this certification have a concentration of PCBs below 50 ppm.

○ The source of the PCB contamination was sampled and found to have a PCB concentration below 50 ppm, and was the result of a spill which occurred on or about _____ (date).

Certification pertains to 8 cy. (est. volume) containing soil impacted by PCB oil at the following location: Cannon Air Force Base.

A La Fuente 25 Jul 13
Signature Date

A La Fuente
Printed Name

TSCA Program Mgr
Title

27 SOCES/CEIE
Cannon AFB, NM
Company

Waste Profile Sheet

RHINO ENVIRONMENTAL SERVICES, INC.

GENERATOR'S WASTE PROFILE SHEET Profile No. 1

A. Waste Generator Information

1. Generator's Name: Cannon AFB 2. Contact: Anita Lafuente

3. Generator's Address: 506 N. Air Commando Way Cannon Air Force Base New Mexico 88103-5003 4. Ph: 575-784-6391

4. E-Mail: anita.lafuente@us.af.mil

5. Site Address: 208 West D.L. Ingram, Bldg. 1400 Cannon AFB, New Mexico

6. USEPA/Federal ID #: NM7572124454 7. State ID#: _____

B. Waste Stream Information

1. Type of Contaminant: Gasoline _____ Diesel X Waste Oil _____ Other X

2. Process Generating Waste: Soil cuttings

3. Excluded waste under 40 CFR 261.4 ☐ Yes ☒ No

4. Projected Volume: 8 c.y. 5. Soil: X Water: _____ Sludge: _____

6. Special Instructions/Supplemental Information: 1 Roll-off dumpster, 6 55-gallon drums

C. Waste Soil / Water Properties

Material Composition	Percentage of Waste Stream (=100%)
Soil IDW	100%

Strong Odor ☒ Yes ☐ No Describe TPH-DRO Flashpoint ☐ <140°F ☐ ≥140°F ☒ N/A - Solid

D. Representative Sample Analyses

1. Analytical Data Attached (inclusive of COC and QA/QC) ☒ Yes

Please identify applicable samples and/or lab reports:

Sample I.D. CA-IDW-01, collected on 7-12-13, Analyzed for Dioxins, Furans, TPH-DRO, ORO, GRO, RCRA metals, PCB's, Pesticides, SVOC's, VOC's, explosives. (Analyzed for total amounts see attached)

2. Other information attached (such as MSDS)? ☐ Yes

E. Generator Certification

By signing this profile sheet, the generator certifies that:

1. This waste is not a "Hazardous Waste" as defined by USEPA and/or the state/province.
2. Waste does not contain regulated radioactive materials/regulated concentrations of PCBs (polychlorinated Biphenyls).
3. This waste is not regulated by the Oil Conservation Division.
4. This sheet and attachments contain true and accurate descriptions of the waste material. All relevant information regarding known or suspected hazards in the possession of the Generator has been disclosed.
5. The analytical data presented herein or attached hereto were derived from testing representative samples taken in accordance with 40 CFR 261.20(c) or equivalent rules.
6. If any changes occur in the character of the waste, the Generator shall notify the Contractor prior to providing the waste to the Contractor.

Signature: [signature] Title: TSCA Program Mgr

Printed Name: Anita Lafuente Date: 25 July 2013

LANDFARMWSTPRFL.FRM

Waste Manifests

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NM 7572124454
2. Page 1 of: 1
3. Emergency Response Phone: 800-762-0241
4. Waste Tracking Number: 073013-01

5. Generator's Name and Mailing Address: Cannon AFB, 506 N. Air Commando Way, CAFB, NM 88103-5003
Generator's Site Address (if different than mailing address): 208 West DL Ingram, Bldg 1400, CAFB, NM
Generator's Phone: (575) 784-6391

6. Transporter 1 Company Name: Rhino Environmental, 4621 Hondo Pass Ste K, 79904 — 915-886-4355
U.S. EPA ID Number: NM # 494

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Rhino's DP-1051 Landfarm, 1.7 mls N. of NM/TX Stateline, Hwy 54, Otero County, NM
U.S. EPA ID Number: NM # DP-1051
Facility's Phone: (915) 886-4355

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-Hazardous Petroleum Impacted Soil	1	DT	8	yd3
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Cell M

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: A Lafuente
Signature: A Lafte
Month 07 Day 30 Year 2013

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Danny Herren
Signature: Danny Herren
Month 7 Day 30 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: Danny Herren
Signature: Danny Herren
Month 7 Day 31 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLS-C 5 11979 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NM7572124454
2. Page 1 of 1
3. Emergency Response Phone: 800 762-0941
4. Waste Tracking Number: 073013-02

5. Generator's Name and Mailing Address: Cannon AFB, 506 N Air Commando Way, CAFB, NM 88103-5003
Generator's Site Address (if different than mailing address): 203 West D Ingram Bldg 1400, CAFB, NM
Generator's Phone: 575-784-6391

6. Transporter 1 Company Name: Rhino Environmental, 4601 Hendo Rd STE K 79904, 915-886-4355
U.S. EPA ID Number: NM 494

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Rhino DP-619, 8 miles South of Hobbs Highway 18, Lovington Hwy Lea County NM, 915-556-4355
U.S. EPA ID Number: NM DP 619
Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Hazardous Petroleum Impacted Soil	6	Dr	2 yds	yds
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
Cell 1A

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.
Generator's/Offeror's Printed/Typed Name: A. Lafuente
Signature: A. Lafuente
Month 07 Day 30 Year 2013

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tim Shannon
Signature:
Month 7 Day 30 Year 13
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: Tim Shannon
Signature:
Month 7 Day 30 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

C 5 11979 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

1. NEW MEXICO ECOLOGICAL EXCLUSION CRITERIA CHECKLIST

The Former AGE Dispatch Facility Spills Site (SS-C501)

The following questions are designed to be used in conjunction with the Ecological Exclusion Criteria Decision Tree (Figure 1). After answering each question, refer to the Decision Tree to determine the appropriate next step. In some cases, questions will be omitted as the user is directed to another section as indicated by the flow diagram in the Decision Tree. For example, if the user answers "yes" to Question 1 of Section I, he or she is directed to proceed to Section II.

I. Habitat

In the following questions, "affected property" refers to all property on which a release has occurred or is believed to have occurred, including off-site areas where contamination may have occurred or migrated.

The Former AGE Dispatch Facility Spills Site (SS-C501) includes only the asphalt parking lot formerly used to store AGE. The site is approximately 450 feet long and 120 feet wide (approximately 1.2 acres). The site is bounded on the northwest side by Torch Boulevard; the asphalt is contiguous with the parking lots of adjacent properties; and buildings or building foundations border the site on the southeast side. The primary contaminant sources include at least two diesel fuel spills (up to 60 gallons each) that occurred on the asphalt parking lot. The site was re-paved in 2009.

1. Are any of the below-listed sensitive environments at, adjacent to, or in the locality[1] of the affected property? **NO**

   - National Park or National Monument
   - Designated or administratively proposed Federal Wilderness Area
   - National Preserve
   - National or State Wildlife Refuge
   - Federal or State land designated for wildlife or game management
   - State designated Natural Areas
   - All areas that are owned or used by local tribes
   - All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle

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1 *Locality* of the site refers to any area where an ecological receptor is likely to contact site-related chemicals. The locality of the site considers the likelihood of contamination migrating over time and places the site in the context of its general surrounding. Therefore, the locality is typically larger than the site and the areas adjacent to the site.

- All areas that provide or could potentially provide habitat for state and federally listed Threatened or Endangered Species, those species that are currently petitioned for listing, and species designated by other agencies as sensitive or species of concern
- All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes
- All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)
- All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)
- All areas that provide or could potentially provide habitat for song birds as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)
- All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)
- All areas that provide or could potentially provide habitat for horned toads and bullfrogs as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, respectively)

2. Does the affected property contain land areas which were not listed in Question 1, but could be considered viable ecological habitat? The following are examples (but not a complete listing) of viable ecological habitats: **NO**

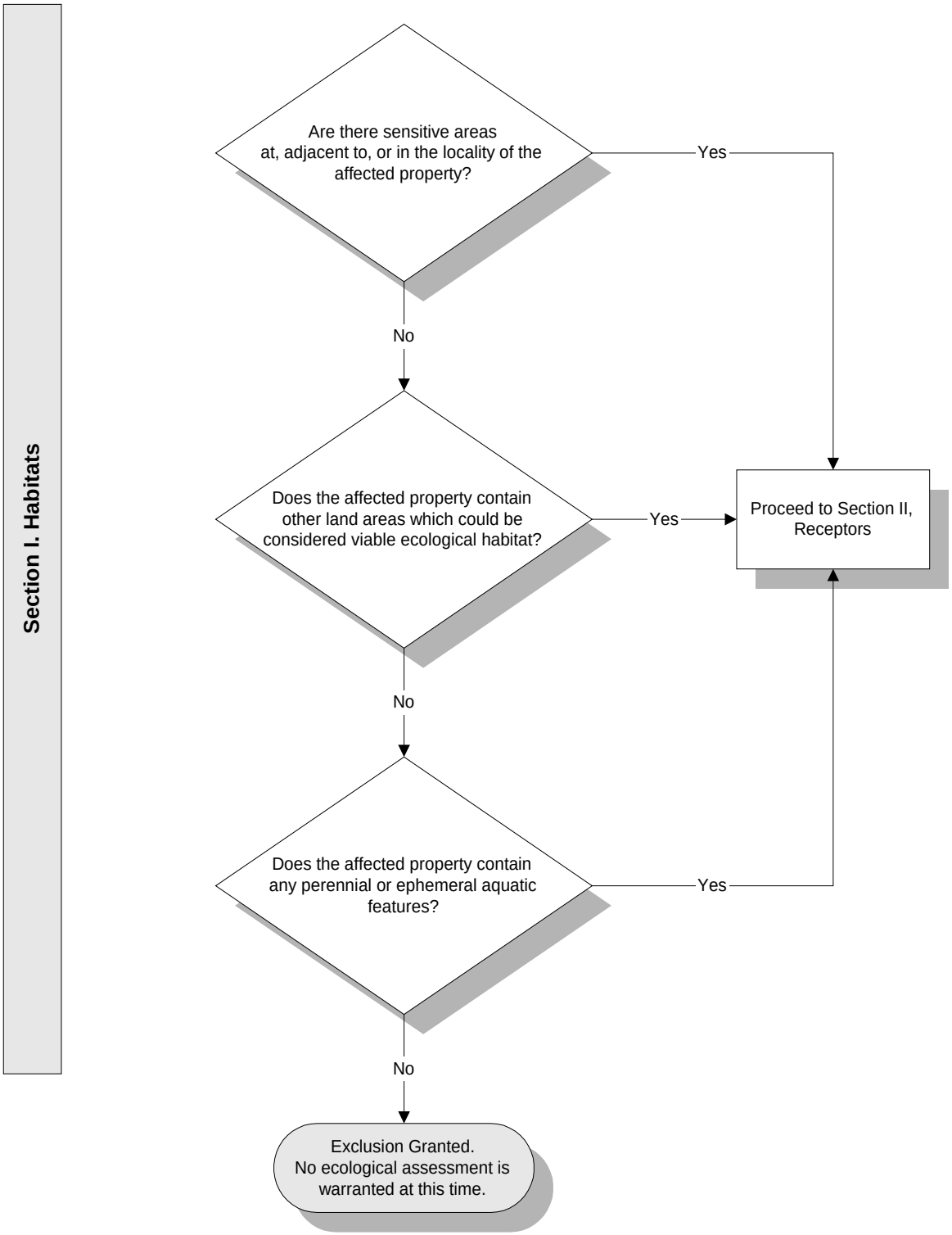
- Wooded areas
- Shrub/scrub vegetated areas
- Open fields (prairie)
- Other grassy areas
- Desert areas
- Any other areas which support wildlife and/or vegetation, excluding areas which support only opportunistic species (such as house mice, Norway rats, pigeons, etc.) that do not serve as prey to species in adjacent habitats.

The following features are <u>not</u> considered ecologically viable:

- Pavement
- Buildings
- Paved areas of roadways
- Paved/concrete equipment storage pads
- Paved manufacturing or process areas
- Other non-natural surface cover or structure

3. Does the affected property contain any perennial or ephemeral aquatic features which were not listed in Question 1? **NO**

Figure 1 -Ecological Exclusion Criteria Decision Tree



CONCLUSION: The Former AGE Dispatch Facility Spills Site (SS-C501) meets the criteria for an exclusion from any further ecological assessment.

1. NEW MEXICO ECOLOGICAL EXCLUSION CRITERIA CHECKLIST

Former Gas Station Site (ST-C502)

The following questions are designed to be used in conjunction with the Ecological Exclusion Criteria Decision Tree (Figure 1). After answering each question, refer to the Decision Tree to determine the appropriate next step. In some cases, questions will be omitted as the user is directed to another section as indicated by the flow diagram in the Decision Tree. For example, if the user answers "yes" to Question 1 of Section I, he or she is directed to proceed to Section II.

I. Habitat

In the following questions, "affected property" refers to all property on which a release has occurred or is believed to have occurred, including off-site areas where contamination may have occurred or migrated.

The Former Gas Station Site (ST-C502) is located in the north central portion of Cannon AFB. The site is approximately 145 feet by 165 feet (approximately 0.5 acres); the site boundary encompasses all of the former site features and the asphalt parking area surrounding the former gas station. With the exception of a small lawn (22 feet by 45 feet; 0.02 acres), the site is entirely covered in asphalt or building foundation. The primary sources of contamination include the three former 10,000-gallon MOGAS and diesel fuel USTs, and associated fuel lines and dispensers, where fuel spills or leaks may have occurred.

1. Are any of the below-listed sensitive environments at, adjacent to, or in the locality[1] of the affected property? **NO**

   - National Park or National Monument
   - Designated or administratively proposed Federal Wilderness Area
   - National Preserve
   - National or State Wildlife Refuge
   - Federal or State land designated for wildlife or game management
   - State designated Natural Areas
   - All areas that are owned or used by local tribes
   - All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle

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1 *Locality* of the site refers to any area where an ecological receptor is likely to contact site-related chemicals. The locality of the site considers the likelihood of contamination migrating over time and places the site in the context of its general surrounding. Therefore, the locality is typically larger than the site and the areas adjacent to the site.

- All areas that provide or could potentially provide habitat for state and federally listed Threatened or Endangered Species, those species that are currently petitioned for listing, and species designated by other agencies as sensitive or species of concern
- All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes
- All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)
- All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)
- All areas that provide or could potentially provide habitat for song birds as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)
- All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)
- All areas that provide or could potentially provide habitat for horned toads and bullfrogs as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, respectively)

2. Does the affected property contain land areas which were not listed in Question 1, but could be considered viable ecological habitat? The following are examples (but not a complete listing) of viable ecological habitats: **NO**

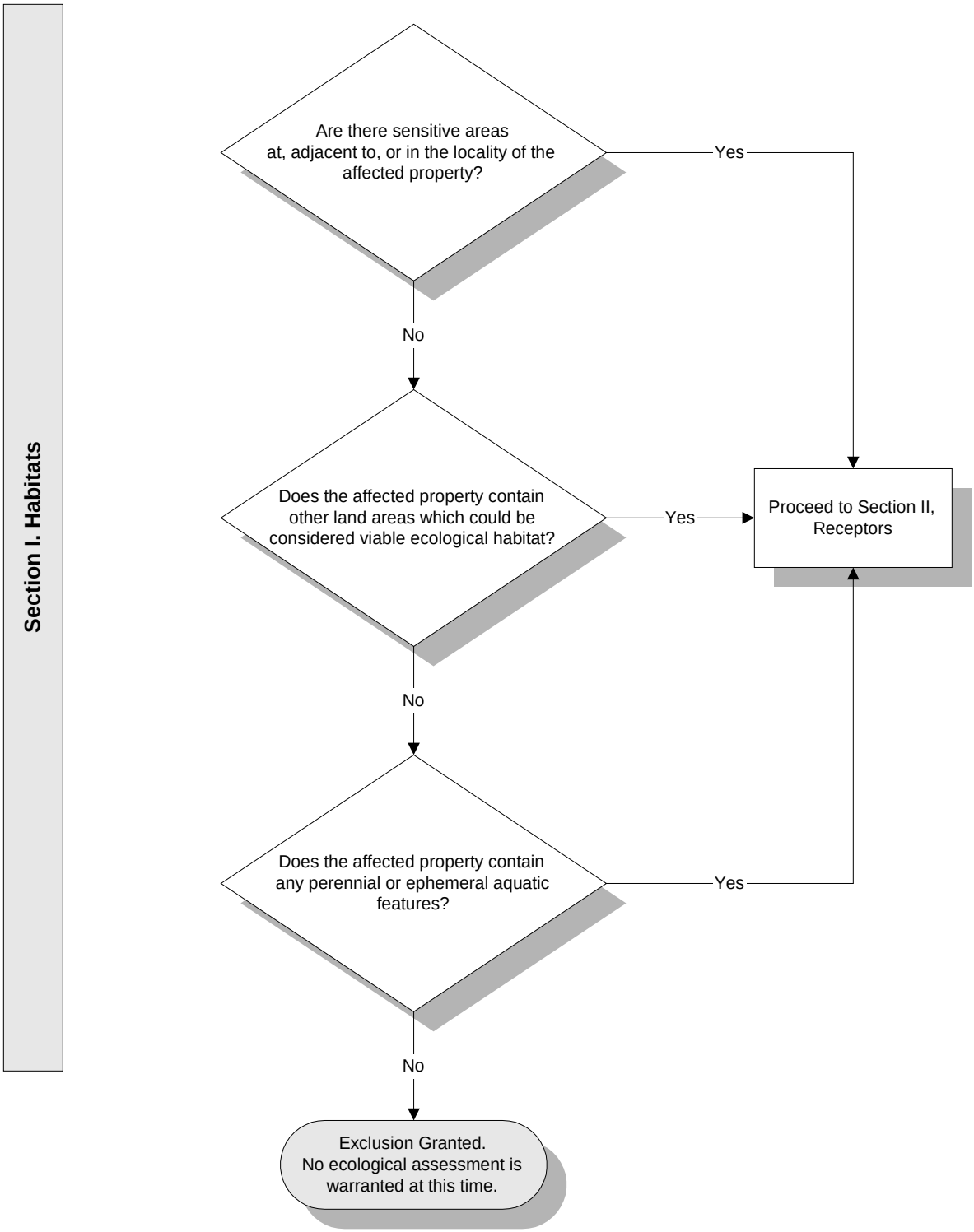
- Wooded areas
- Shrub/scrub vegetated areas
- Open fields (prairie)
- Other grassy areas
- Desert areas
- Any other areas which support wildlife and/or vegetation, excluding areas which support only opportunistic species (such as house mice, Norway rats, pigeons, etc.) that do not serve as prey to species in adjacent habitats.

The following features are <u>not</u> considered ecologically viable:

- Pavement
- Buildings
- Paved areas of roadways
- Paved/concrete equipment storage pads
- Paved manufacturing or process areas
- Other non-natural surface cover or structure

3. Does the affected property contain any perennial or ephemeral aquatic features which were not listed in Question 1? **NO**

Figure 1 -Ecological Exclusion Criteria Decision Tree



CONCLUSION: ST-C502 meets the criteria for exclusion of further ecological analysis.

1. NEW MEXICO ECOLOGICAL EXCLUSION CRITERIA CHECKLIST

Base Support/Operations Generator Former UST Site (ST-C503)

The following questions are designed to be used in conjunction with the Ecological Exclusion Criteria Decision Tree (Figure 1). After answering each question, refer to the Decision Tree to determine the appropriate next step. In some cases, questions will be omitted as the user is directed to another section as indicated by the flow diagram in the Decision Tree. For example, if the user answers "yes" to Question 1 of Section I, he or she is directed to proceed to Section II.

I. Habitat

In the following questions, "affected property" refers to all property on which a release has occurred or is believed to have occurred, including off-site areas where contamination may have occurred or migrated.

The Base Support/Operations Generator Former UST Site (ST-C503) is located in the west-central portion of Cannon AFB. The site boundary (as defined in this investigation) includes only the limits of the previous UST removal excavation. The site is approximately 22 feet by 25 feet (0.01 acres), and is bound by a brick wall to the northwest, the edge of the asphalt pavement to the southwest, a fence to the southeast, and a grass area to the northeast. A 500-gallon diesel UST was removed in October 1994. The base of the tank was located approximately 7 feet bgs; soil was excavated down to 9 feet. The excavation was back-filled with clean fill material.

1. Are any of the below-listed sensitive environments at, adjacent to, or in the locality[1] of the affected property? **NO**

   - National Park or National Monument
   - Designated or administratively proposed Federal Wilderness Area
   - National Preserve
   - National or State Wildlife Refuge
   - Federal or State land designated for wildlife or game management
   - State designated Natural Areas
   - All areas that are owned or used by local tribes
   - All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle

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1 *Locality* of the site refers to any area where an ecological receptor is likely to contact site-related chemicals. The locality of the site considers the likelihood of contamination migrating over time and places the site in the context of its general surrounding. Therefore, the locality is typically larger than the site and the areas adjacent to the site.

- All areas that provide or could potentially provide habitat for state and federally listed Threatened or Endangered Species, those species that are currently petitioned for listing, and species designated by other agencies as sensitive or species of concern
- All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes
- All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)
- All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)
- All areas that provide or could potentially provide habitat for song birds as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)
- All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)
- All areas that provide or could potentially provide habitat for horned toads and bullfrogs as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, respectively)

2. Does the affected property contain land areas which were not listed in Question 1, but could be considered viable ecological habitat? The following are examples (but not a complete listing) of viable ecological habitats: **NO**

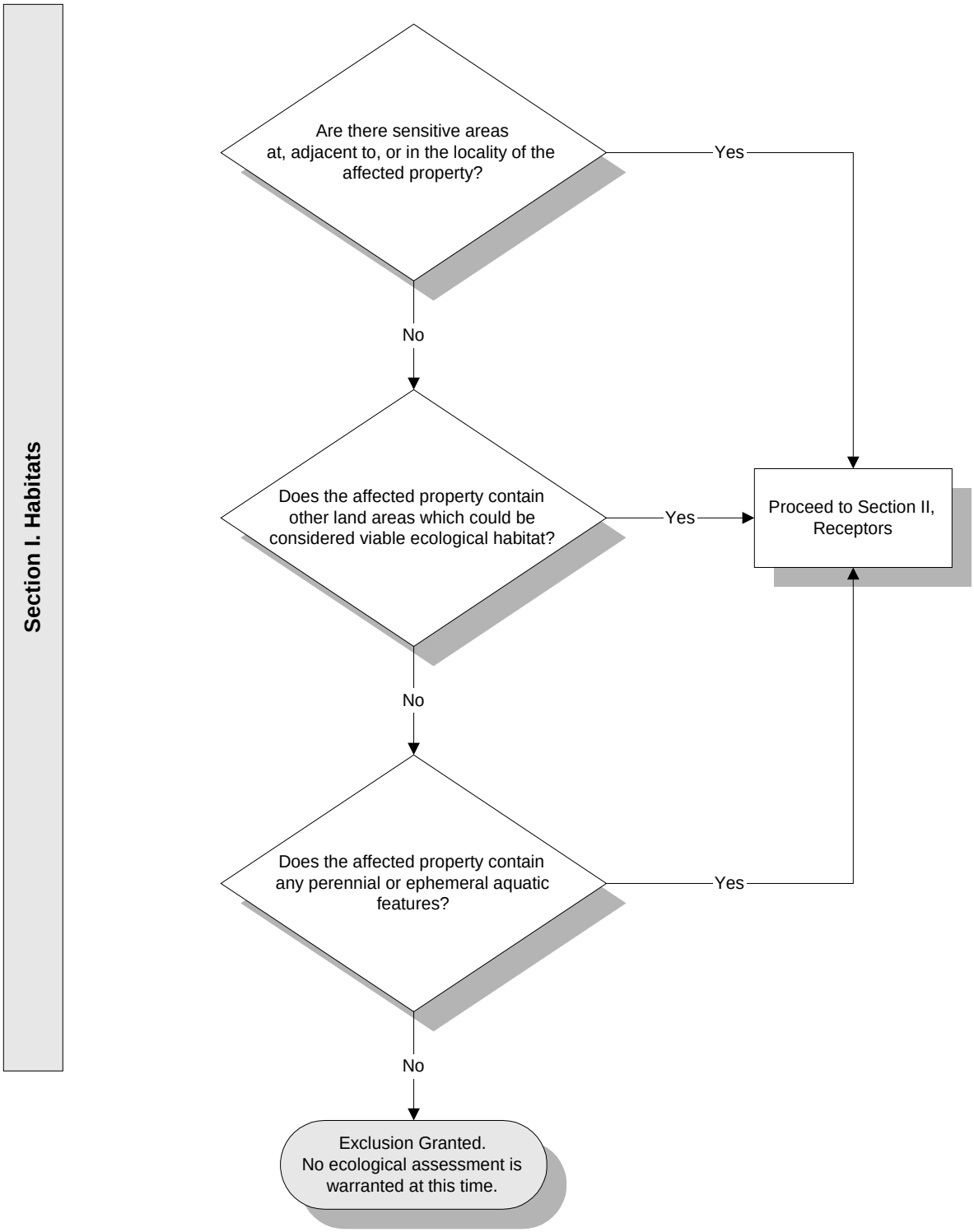
- Wooded areas
- Shrub/scrub vegetated areas
- Open fields (prairie)
- Other grassy areas
- Desert areas
- Any other areas which support wildlife and/or vegetation, excluding areas which support only opportunistic species (such as house mice, Norway rats, pigeons, etc.) that do not serve as prey to species in adjacent habitats.

The following features are <u>not</u> considered ecologically viable:

- Pavement
- Buildings
- Paved areas of roadways
- Paved/concrete equipment storage pads
- Paved manufacturing or process areas
- Other non-natural surface cover or structure

3. Does the affected property contain any perennial or ephemeral aquatic features which were not listed in Question 1? **NO**

Figure 1 -Ecological Exclusion Criteria Decision Tree



CONCLUSION: ST-C502 meets the criteria for exclusion of further ecological analysis.

1. NEW MEXICO ECOLOGICAL EXCLUSION CRITERIA CHECKLIST

Hospital Abandoned UST Site (ST-C504)

The following questions are designed to be used in conjunction with the Ecological Exclusion Criteria Decision Tree (Figure 1). After answering each question, refer to the Decision Tree to determine the appropriate next step. In some cases, questions will be omitted as the user is directed to another section as indicated by the flow diagram in the Decision Tree. For example, if the user answers "yes" to Question 1 of Section I, he or she is directed to proceed to Section II.

I. Habitat

In the following questions, "affected property" refers to all property on which a release has occurred or is believed to have occurred, including off-site areas where contamination may have occurred or migrated.

The Hospital Abandoned UST Site (ST-C504) is located in the northwestern portion of Cannon AFB, adjacent to the access road behind the hospital. The site boundary encompasses portions of grassy and asphalt paved areas around the abandoned UST. The site is approximately 95 feet by 60 feet (approximately 0.13 acres). The diesel UST was abandoned in place in 1994. The base of the UST is approximately 18 feet bgs (USGS 1995).

1. Are any of the below-listed sensitive environments at, adjacent to, or in the locality[1] of the affected property? **NO**

- National Park or National Monument
- Designated or administratively proposed Federal Wilderness Area
- National Preserve
- National or State Wildlife Refuge
- Federal or State land designated for wildlife or game management
- State designated Natural Areas
- All areas that are owned or used by local tribes
- All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle
- All areas that provide or could potentially provide habitat for state and federally listed Threatened or Endangered Species, those species that are currently petitioned

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1 *Locality* of the site refers to any area where an ecological receptor is likely to contact site-related chemicals. The locality of the site considers the likelihood of contamination migrating over time and places the site in the context of its general surrounding. Therefore, the locality is typically larger than the site and the areas adjacent to the site.

for listing, and species designated by other agencies as sensitive or species of concern

- All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes
- All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)
- All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)
- All areas that provide or could potentially provide habitat for song birds as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)
- All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)
- All areas that provide or could potentially provide habitat for horned toads and bullfrogs as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, respectively)

2. Does the affected property contain land areas which were not listed in Question 1, but could be considered viable ecological habitat? The following are examples (but not a complete listing) of viable ecological habitats: **NO**

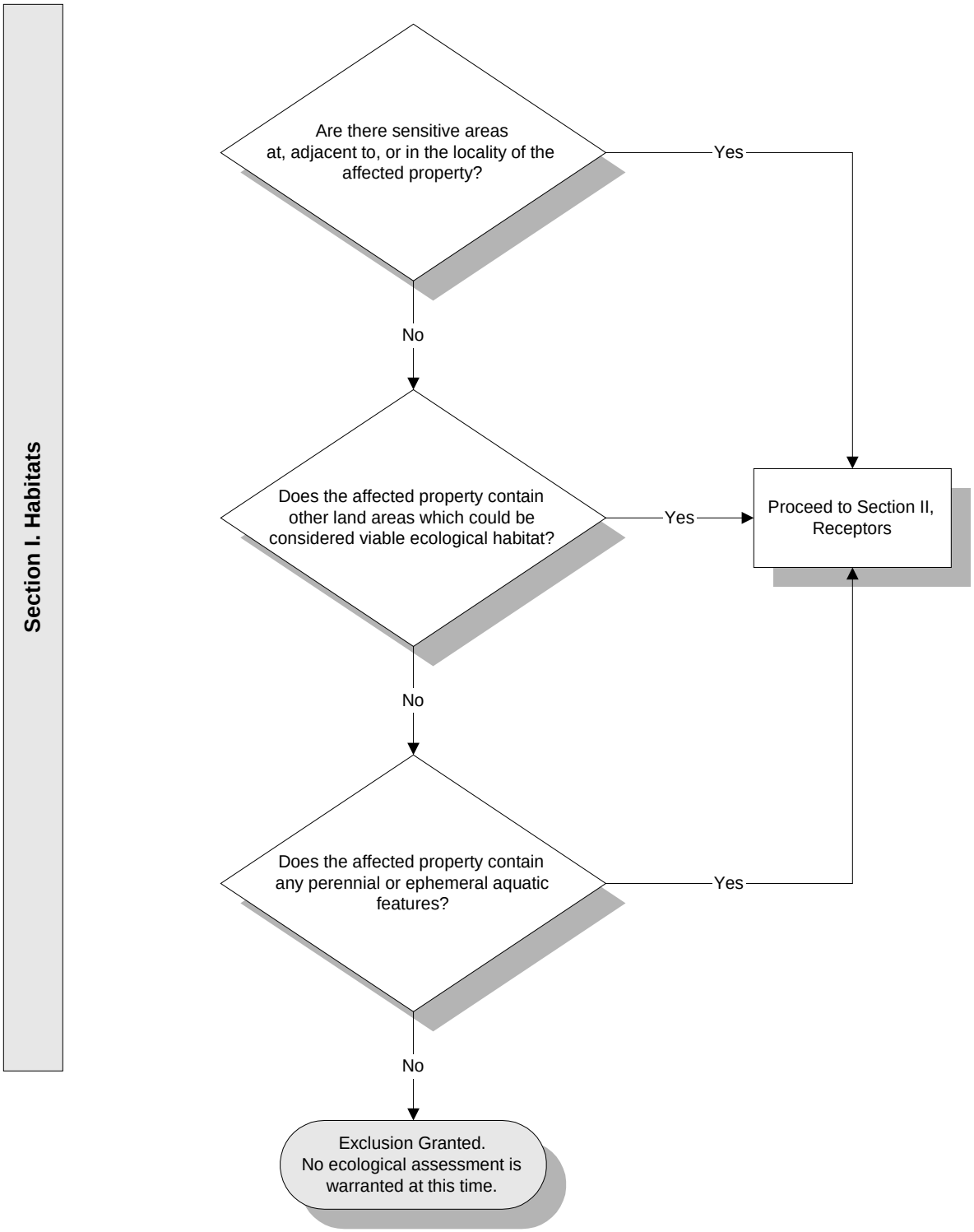
- Wooded areas
- Shrub/scrub vegetated areas
- Open fields (prairie)
- Other grassy areas
- Desert areas
- Any other areas which support wildlife and/or vegetation, excluding areas which support only opportunistic species (such as house mice, Norway rats, pigeons, etc.) that do not serve as prey to species in adjacent habitats.

The following features are <u>not</u> considered ecologically viable:

- Pavement
- Buildings
- Paved areas of roadways
- Paved/concrete equipment storage pads
- Paved manufacturing or process areas
- Other non-natural surface cover or structure

3. Does the affected property contain any perennial or ephemeral aquatic features which were not listed in Question 1? **NO**

Figure 1 -Ecological Exclusion Criteria Decision Tree



CONCLUSION: ST-C504 meets the criteria for exclusion of further ecological analysis.

1. NEW MEXICO ECOLOGICAL EXCLUSION CRITERIA CHECKLIST

Flightline Generator USTs Sites (ST-C505)

The following questions are designed to be used in conjunction with the Ecological Exclusion Criteria Decision Tree (Figure 1). After answering each question, refer to the Decision Tree to determine the appropriate next step. In some cases, questions will be omitted as the user is directed to another section as indicated by the flow diagram in the Decision Tree. For example, if the user answers "yes" to Question 1 of Section I, he or she is directed to proceed to Section II.

I. Habitat

In the following questions, "affected property" refers to all property on which a release has occurred or is believed to have occurred, including off-site areas where contamination may have occurred or migrated.

The Flightline Generator USTs Site (ST-C505) is located in the northeast portion of Cannon AFB, due north of the north end of the main runway near North Perimeter Road. The site boundary (for purposes of this investigation) encompasses only the previous USTs excavation area. The site is approximately 22 feet by 23 feet (0.01 acres) and is bound to the west by Building 3060. This site formerly contained two 500-gallon diesel USTs associated with the emergency generator in Building 3060. The USTs were removed in December 1994 and January 1995. The bases of the USTs were approximately 9 feet bgs (USGS 1995). During the removal action, soil was excavated down to 2 feet below the base of the USTs and the excavation was back-filled with clean fill.

1. Are any of the below-listed sensitive environments at, adjacent to, or in the locality[1] of the affected property? **NO**

- National Park or National Monument
- Designated or administratively proposed Federal Wilderness Area
- National Preserve
- National or State Wildlife Refuge
- Federal or State land designated for wildlife or game management
- State designated Natural Areas
- All areas that are owned or used by local tribes
- All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle

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1 *Locality* of the site refers to any area where an ecological receptor is likely to contact site-related chemicals. The locality of the site considers the likelihood of contamination migrating over time and places the site in the context of its general surrounding. Therefore, the locality is typically larger than the site and the areas adjacent to the site.

- All areas that provide or could potentially provide habitat for state and federally listed Threatened or Endangered Species, those species that are currently petitioned for listing, and species designated by other agencies as sensitive or species of concern
- All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes
- All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)
- All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)
- All areas that provide or could potentially provide habitat for song birds as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)
- All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)
- All areas that provide or could potentially provide habitat for horned toads and bullfrogs as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, respectively)

2. Does the affected property contain land areas which were not listed in Question 1, but could be considered viable ecological habitat? The following are examples (but not a complete listing) of viable ecological habitats: **NO**

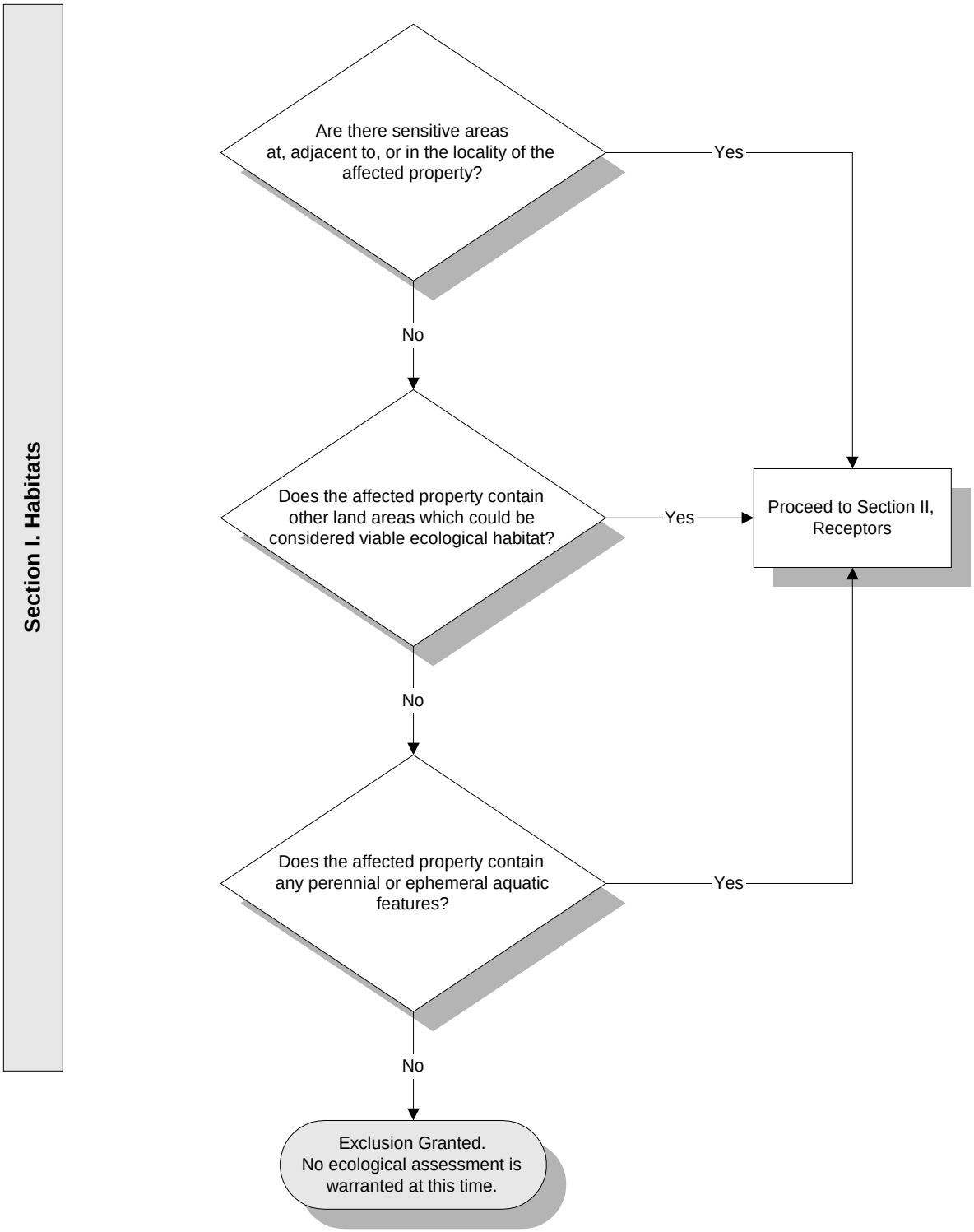
- Wooded areas
- Shrub/scrub vegetated areas
- Open fields (prairie)
- Other grassy areas
- Desert areas
- Any other areas which support wildlife and/or vegetation, excluding areas which support only opportunistic species (such as house mice, Norway rats, pigeons, etc.) that do not serve as prey to species in adjacent habitats.

The following features are <u>not</u> considered ecologically viable:

- Pavement
- Buildings
- Paved areas of roadways
- Paved/concrete equipment storage pads
- Paved manufacturing or process areas
- Other non-natural surface cover or structure

3. Does the affected property contain any perennial or ephemeral aquatic features which were not listed in Question 1? **NO**

Figure 1 -Ecological Exclusion Criteria Decision Tree



CONCLUSION: ST-C505 meets the criteria for exclusion of further ecological analysis.

1. NEW MEXICO ECOLOGICAL EXCLUSION CRITERIA CHECKLIST

The Former POL Yard Refueling Area Site (SS-C507)

The following questions are designed to be used in conjunction with the Ecological Exclusion Criteria Decision Tree (Figure 1). After answering each question, refer to the Decision Tree to determine the appropriate next step. In some cases, questions will be omitted as the user is directed to another section as indicated by the flow diagram in the Decision Tree. For example, if the user answers "yes" to Question 1 of Section I, he or she is directed to proceed to Section II.

I. Habitat

In the following questions, "affected property" refers to all property on which a release has occurred or is believed to have occurred, including off-site areas where contamination may have occurred or migrated.

The Former POL Yard Refueling Area Site (SS-C507) is located near the northern boundary of Cannon AFB, southeast of the main entrance. The site is approximately 580 feet by 410 feet (approximately 5.5 acres) and is bound by a fence to the north, south and west, and the base of several concrete berms to the east. The concrete berms are part of the active POL Yard AST secondary containment system. The former POL Yard Refueling Area was closed in June/July 2009 and has remained inactive. Historical site activities included delivery and dispensing of fuels (diesel fuel, MOGAS, jet propellant [JP]-4, and JP-8).

1. Are any of the below-listed sensitive environments at, adjacent to, or in the locality[1] of the affected property? NO

   - National Park or National Monument
   - Designated or administratively proposed Federal Wilderness Area
   - National Preserve
   - National or State Wildlife Refuge
   - Federal or State land designated for wildlife or game management
   - State designated Natural Areas
   - All areas that are owned or used by local tribes
   - All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle
   - All areas that provide or could potentially provide habitat for state and federally

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1 *Locality* of the site refers to any area where an ecological receptor is likely to contact site-related chemicals. The locality of the site considers the likelihood of contamination migrating over time and places the site in the context of its general surrounding. Therefore, the locality is typically larger than the site and the areas adjacent to the site.

listed Threatened or Endangered Species, those species that are currently petitioned for listing, and species designated by other agencies as sensitive or species of concern

- All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes
- All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)
- All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)
- All areas that provide or could potentially provide habitat for song birds as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)
- All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)
- All areas that provide or could potentially provide habitat for horned toads and bullfrogs as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, respectively)

2. Does the affected property contain land areas which were not listed in Question 1, but could be considered viable ecological habitat? The following are examples (but not a complete listing) of viable ecological habitats:

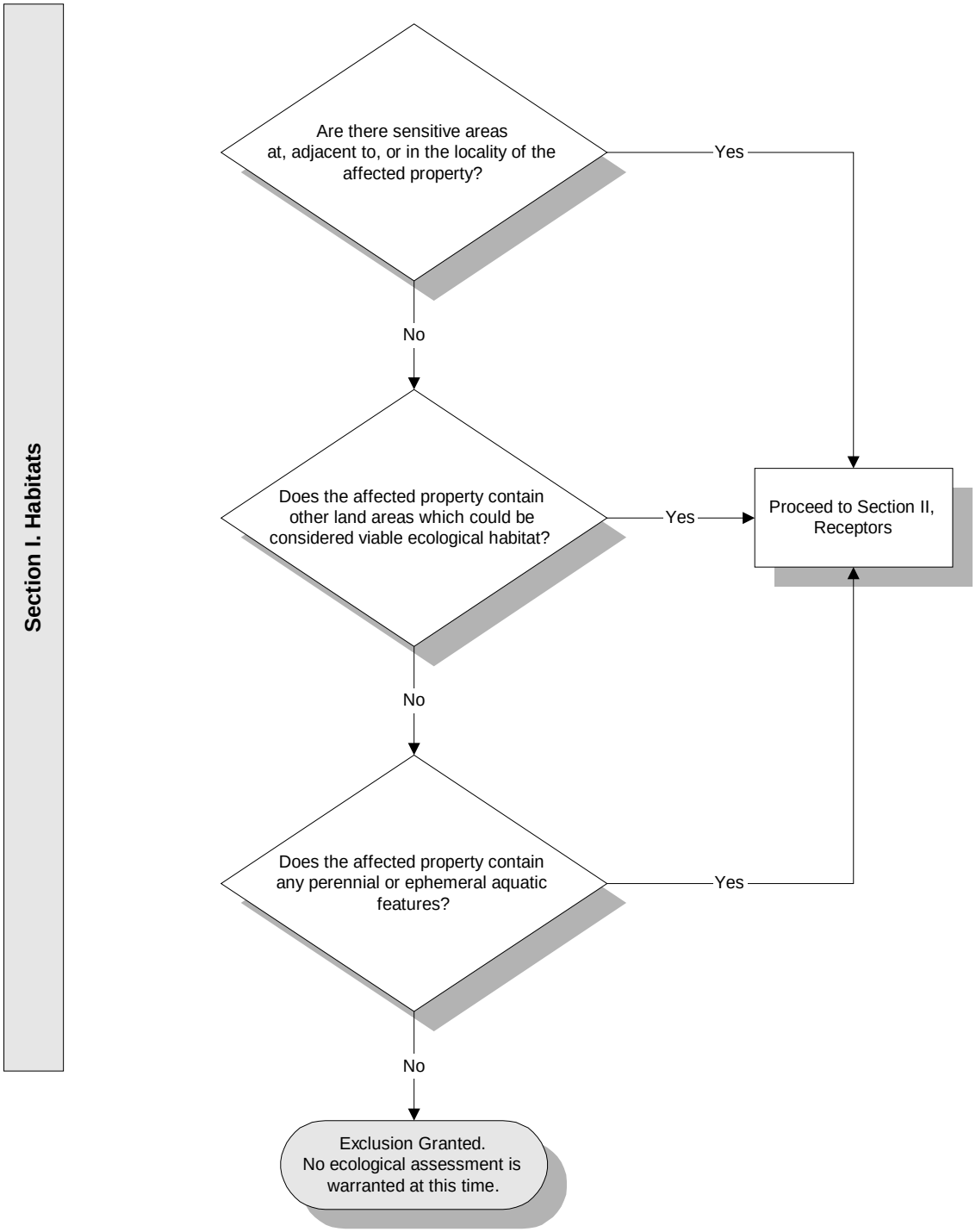
- Wooded areas
- Shrub/scrub vegetated areas
- Open fields (prairie)
- Other grassy areas – SOME present
- Desert areas
- Any other areas which support wildlife and/or vegetation, excluding areas which support only opportunistic species (such as house mice, Norway rats, pigeons, etc.) that do not serve as prey to species in adjacent habitats.

The following features are <u>not</u> considered ecologically viable:

- Pavement
- Buildings
- Paved areas of roadways
- Paved/concrete equipment storage pads
- Paved manufacturing or process areas
- Other non-natural surface cover or structure

3. Does the affected property contain any perennial or ephemeral aquatic features which were not listed in Question 1? NO

Figure 1 -Ecological Exclusion Criteria Decision Tree



CONCLUSION: ST-C507 does not meet criteria for exclusion of further ecological analysis.

II. Receptors

1. Is any part of the affected property used for habitat, foraging area, or refuge by any rare, threatened, or endangered species (plant *or* animal), or otherwise protected species (e.g., raptors, migratory birds)? NO

2. Is any part of the affected property used for habitat, foraging area, or refuge by any species used as a recreational (e.g., game animals) and/or commercial resource? NO
3. Is any part of the affected property used for habitat, foraging area, or refuge by any plant or animal species? This includes plants considered "weeds" and opportunistic insect and animal species (such as cockroaches and rats) if they are used as a food source for other species in the area. YES

   Opportunistic species may occur in the unpaved areas of the site.

III. Exposure Pathways

1. Could receptors be impacted by contaminants via direct contact? YES

   Is a receptor located in or using an area where it could contact contaminated air, soil, or surface water? Possible contact with soil.

For Questions 2 and 3, note that one must answer "yes" to all three bullets in order to be directed to the "exclusion denied" box of the decision tree. This is because answering "no" to one of the questions in the bullet list indicates that a complete exposure pathway is not present. For example, in Question 2, if the chemical cannot leach or dissolve to groundwater (bullet 1), there is no chance of ecological receptors being exposed to the chemical through contact with contaminated groundwater. Similarly, the responses to the questions in Question 4 determine whether a complete pathway exists for exposure to NAPL.

2. Could receptors contact contaminants via groundwater? NO
   - Can the chemical leach or dissolve to groundwater4? YES
   - Can groundwater mobilize the chemical? YES
   - Could (does) contaminated groundwater discharge into known or potential receptor habitats? NO

3. Could receptors contact contaminants via runoff (i.e., surface water and/or suspended sediment) or erosion by water or wind? YES
   - Are chemicals present in surface soils? YES
   - Can the chemical be leached from or eroded with surface soils? YES

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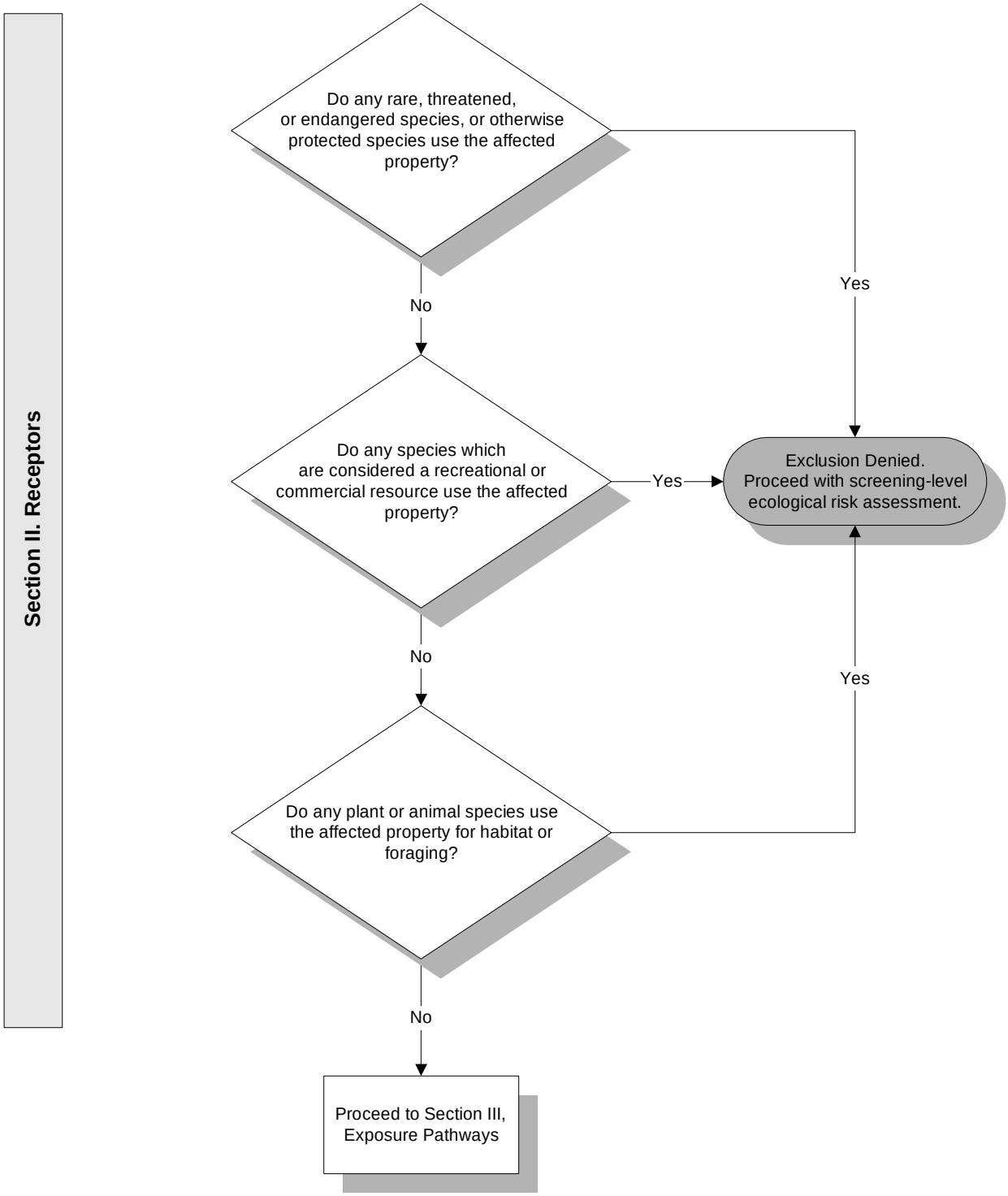
4 Information on the environmental fate of specific chemicals can be found on the Internet at *http://www.epa.gov/opptintr/chemfact/* or at a local library in published copies of the *Hazardous Substances Data Bank*.

- Is there a receptor habitat located downgradient of the leached/eroded surface soil? YES

4. Could receptors contact contaminants via migration of non-aqueous phase liquids (NAPL)?

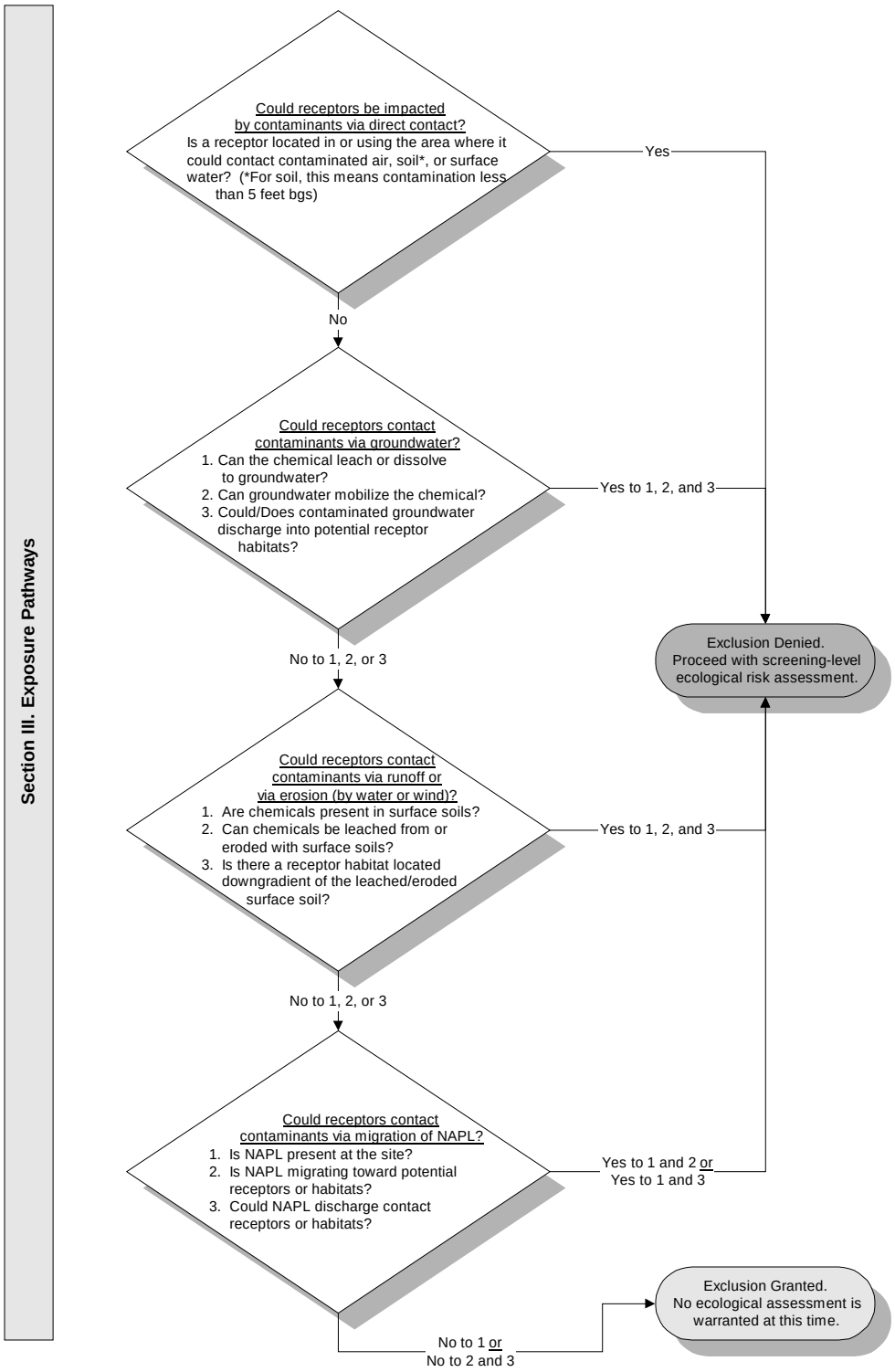
- Is NAPL present at the site? NO
- Is NAPL migrating toward potential receptors or habitats? NO
- Could NAPL discharge impact receptors or habitats? NO

Figure 1 - Exclusion Criteria Decision Tree (continued)



CONCLUSION: Exclusion denied.

Figure 1 - Exclusion Criteria Decision Tree (continued)



CONCLUSION: Exclusion denied.

1. NEW MEXICO ECOLOGICAL EXCLUSION CRITERIA CHECKLIST

SD-C508, Surface Disposal Area

The following questions are designed to be used in conjunction with the Ecological Exclusion Criteria Decision Tree (Figure 1). After answering each question, refer to the Decision Tree to determine the appropriate next step. In some cases, questions will be omitted as the user is directed to another section as indicated by the flow diagram in the Decision Tree. For example, if the user answers "yes" to Question 1 of Section I, he or she is directed to proceed to Section II.

I. Habitat

In the following questions, "affected property" refers to all property on which a release has occurred or is believed to have occurred, including off-site areas where contamination may have occurred or

The Surface Disposal Area Site (SD-C508) is located in the southeast portion of Cannon AFB, near the end of an abandoned runway. It is in the vicinity of a site used by Cannon AFB Explosives Ordnance Disposal (EOD) personnel. SD-508 includes an area of visible debris on the ground surface (some burned). The source and the history of this site are unknown. The surface debris was found to be within a circular shaped area where the ground surface was slightly mounded; this area is approximately 200 by 240 feet (approximately 1 acre). This mounded area also had vegetation that was visibly shorter and sparser at the surface compared to the surrounding vegetation in the field.

1. Are any of the below-listed sensitive environments at, adjacent to, or in the locality[1] of the affected property? **NO**

- National Park or National Monument
- Designated or administratively proposed Federal Wilderness Area
- National Preserve
- National or State Wildlife Refuge
- Federal or State land designated for wildlife or game management
- State designated Natural Areas
- All areas that are owned or used by local tribes
- All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle
- All areas that provide or could potentially provide habitat for state and federally listed Threatened or Endangered Species, those species that are currently petitioned

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1 *Locality* of the site refers to any area where an ecological receptor is likely to contact site-related chemicals. The locality of the site considers the likelihood of contamination migrating over time and places the site in the context of its general surrounding. Therefore, the locality is typically larger than the site and the areas adjacent to the site.

for listing, and species designated by other agencies as sensitive or species of concern

- All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes
- All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)
- All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)
- All areas that provide or could potentially provide habitat for song birds as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)
- All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)
- All areas that provide or could potentially provide habitat for horned toads and bullfrogs as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, respectively)

2. Does the affected property contain land areas which were not listed in Question 1, but could be considered viable ecological habitat? The following are examples (but not a complete listing) of viable ecological habitats:

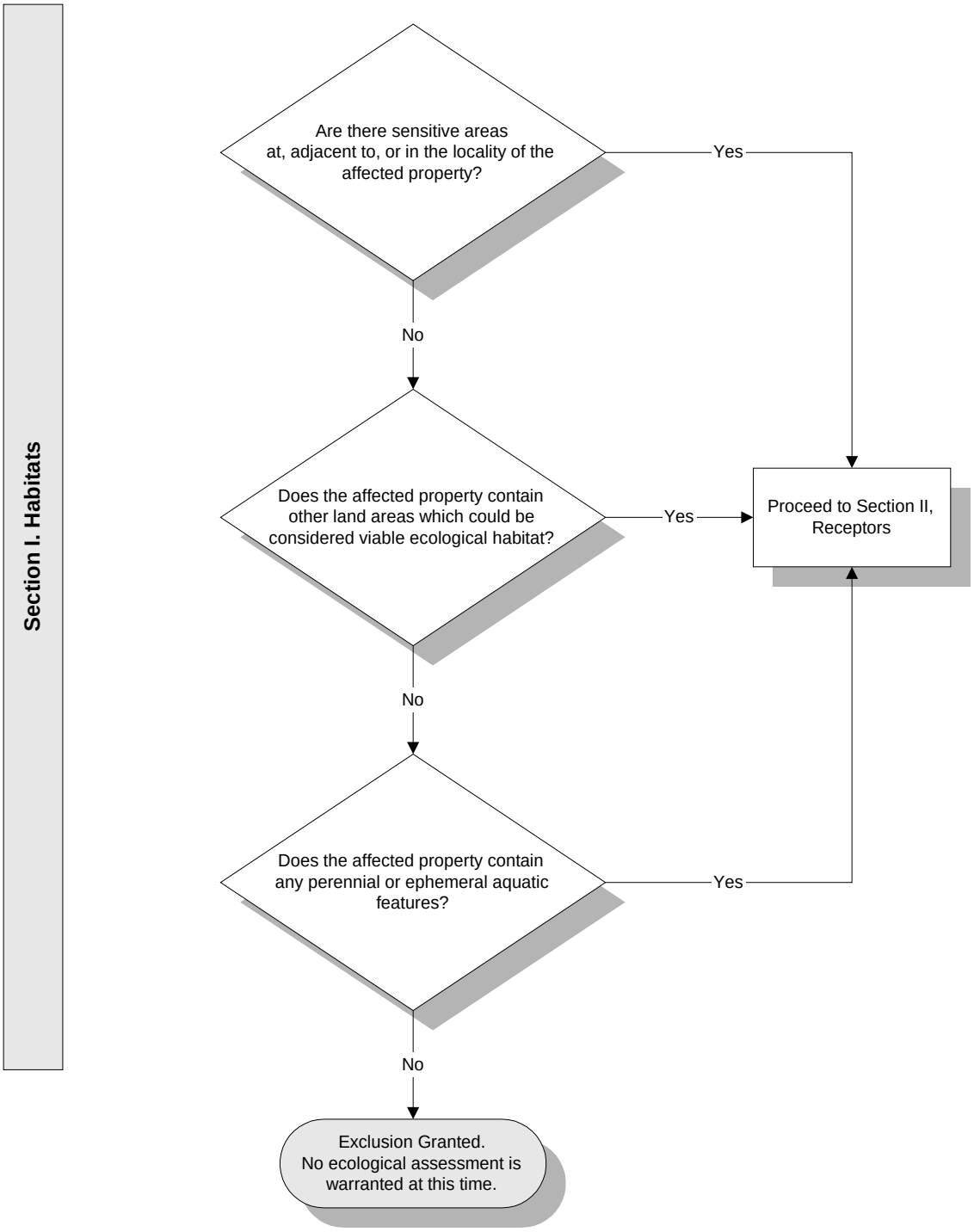
- Wooded areas
- Shrub/scrub vegetated areas
- Open fields (prairie)
- Other grassy areas – **SOME present**
- Desert areas
- Any other areas which support wildlife and/or vegetation, excluding areas which support only opportunistic species (such as house mice, Norway rats, pigeons, etc.) that do not serve as prey to species in adjacent habitats.

The following features are <u>not</u> considered ecologically viable:

- Pavement
- Buildings
- Paved areas of roadways
- Paved/concrete equipment storage pads
- Paved manufacturing or process areas
- Other non-natural surface cover or structure

3. Does the affected property contain any perennial or ephemeral aquatic features which were not listed in Question 1? **NO**

Figure 1 -Ecological Exclusion Criteria Decision Tree



CONCLUSION: ST-C508 does not meet criteria for exclusion of further ecological analysis.

II. Receptors

1. Is any part of the affected property used for habitat, foraging area, or refuge by any rare, threatened, or endangered species (plant *or* animal), or otherwise protected species (e.g., raptors, migratory birds)? **NO**

2. Is any part of the affected property used for habitat, foraging area, or refuge by any species used as a recreational (e.g., game animals) and/or commercial resource? **NO**
3. Is any part of the affected property used for habitat, foraging area, or refuge by any plant or animal species? This includes plants considered "weeds" and opportunistic insect and animal species (such as cockroaches and rats) if they are used as a food source for other species in the area. **YES**

   Opportunistic species may occur in the unpaved areas of the site.

III. Exposure Pathways

1. Could receptors be impacted by contaminants via direct contact? **YES**

   Is a receptor located in or using an area where it could contact contaminated air, soil, or surface water? **YES**

For Questions 2 and 3, note that one must answer "yes" to all three bullets in order to be directed to the "exclusion denied" box of the decision tree. This is because answering "no" to one of the questions in the bullet list indicates that a complete exposure pathway is not present. For example, in Question 2, if the chemical cannot leach or dissolve to groundwater (bullet 1), there is no chance of ecological receptors being exposed to the chemical through contact with contaminated groundwater. Similarly, the responses to the questions in Question 4 determine whether a complete pathway exists for exposure to NAPL.

2. Could receptors contact contaminants via groundwater? **NO**
   - Can the chemical leach or dissolve to groundwater4? **YES**
   - Can groundwater mobilize the chemical? **YES**
   - Could (does) contaminated groundwater discharge into known or potential receptor habitats? **NO**

3. Could receptors contact contaminants via runoff (i.e., surface water and/or suspended sediment) or erosion by water or wind? **YES**
   - Are chemicals present in surface soils? **YES**
   - Can the chemical be leached from or eroded with surface soils? **YES**
   - Is there a receptor habitat located downgradient of the leached/eroded surface soil? **YES**

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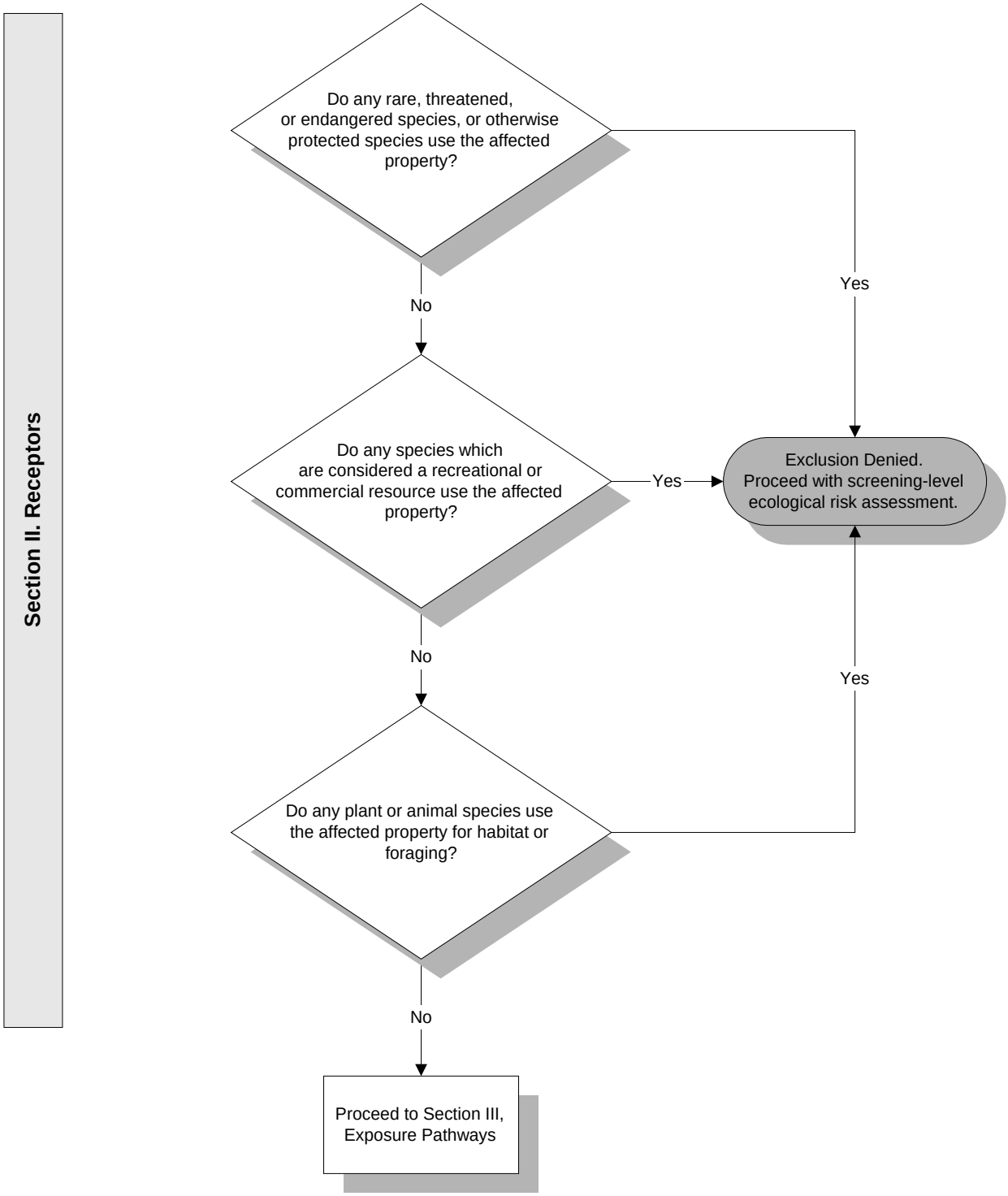
4 Information on the environmental fate of specific chemicals can be found on the Internet at *http://www.epa.gov/opptintr/chemfact/* or at a local library in published copies of the *Hazardous Substances Data Bank*.

4. Could receptors contact contaminants via migration of non-aqueous phase liquids (NAPL)?

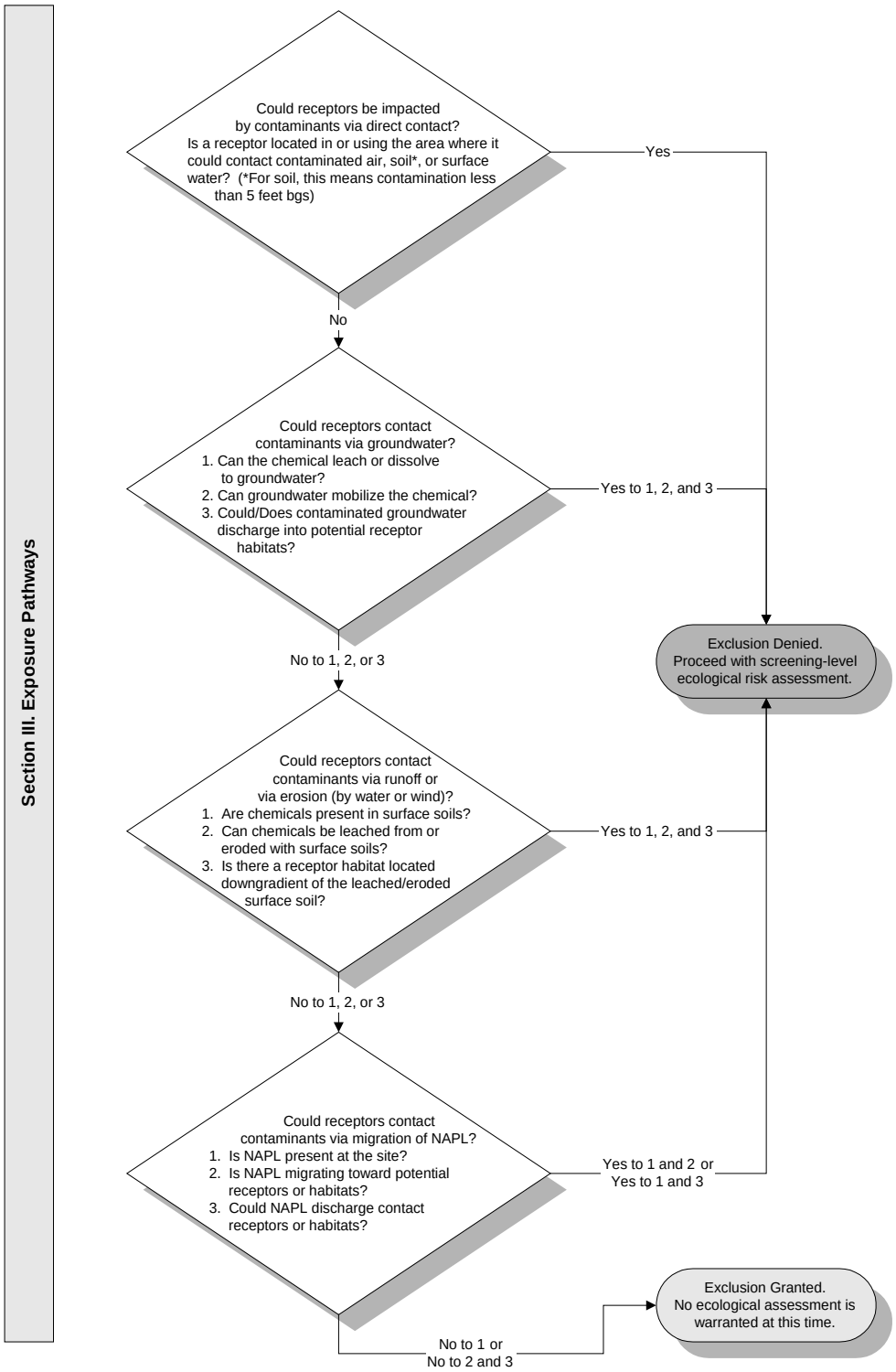
- Is NAPL present at the site? **NO**
- Is NAPL migrating toward potential receptors or habitats? **NO**
- Could NAPL discharge impact receptors or habitats? **NO**

Figure 1 - Exclusion Criteria Decision Tree (continued)



CONCLUSION: Exclusion denied.

Figure 1 - Exclusion Criteria Decision Tree (continued)



CONCLUSION: Exclusion denied.

1. NEW MEXICO ECOLOGICAL EXCLUSION CRITERIA CHECKLIST

Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129)

The following questions are designed to be used in conjunction with the Ecological Exclusion Criteria Decision Tree (Figure 1). After answering each question, refer to the Decision Tree to determine the appropriate next step. In some cases, questions will be omitted as the user is directed to another section as indicated by the flow diagram in the Decision Tree. For example, if the user answers "yes" to Question 1 of Section I, he or she is directed to proceed to Section II.

I. Habitat

In the following questions, "affected property" refers to all property on which a release has occurred or is believed to have occurred, including off-site areas where contamination may have occurred or

The Waste Oil Storage Facility 244 and Leach Field Site (TA/AS-C129) is located in the northeast portion of the Cannon AFB and consists of two main areas: the former Facility 244 and the former leach field located to the southeast. The former Facility 244 site boundary is approximately 65 feet by 50 feet, and is bound to the west by a fenced-in storage area that currently contains several pumps, piping, and related equipment. The former leach field site boundary is approximately 40 by 50 feet and encompasses the portions of the former leach field containing perforated piping used to discharge water into the subsurface.

1. Are any of the below-listed sensitive environments at, adjacent to, or in the locality[1] of the affected property? **NO**

   - National Park or National Monument
   - Designated or administratively proposed Federal Wilderness Area
   - National Preserve
   - National or State Wildlife Refuge
   - Federal or State land designated for wildlife or game management
   - State designated Natural Areas
   - All areas that are owned or used by local tribes
   - All areas that are potentially important breeding, staging, and overwintering habitats as well as other habitats important for the survival of animals during critical periods of their life cycle
   - All areas that provide or could potentially provide habitat for state and federally listed Threatened or Endangered Species, those species that are currently petitioned

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1 *Locality* of the site refers to any area where an ecological receptor is likely to contact site-related chemicals. The locality of the site considers the likelihood of contamination migrating over time and places the site in the context of its general surrounding. Therefore, the locality is typically larger than the site and the areas adjacent to the site.

for listing, and species designated by other agencies as sensitive or species of concern

- All areas that provide or could potentially provide habitat for state protected species as defined in the Wildlife Code, Chapter 17 of the New Mexico Statutes
- All areas that provide or could potentially provide habitat for migratory birds as protected by the Migratory Bird Treaty Act (16 U.S.C. §§ 703-712)
- All areas that provide or could potentially provide habitat for bald eagles and golden eagles as protected by the Bald and Golden Eagle Protection Act (16 U.S.C. 668-668d)
- All areas that provide or could potentially provide habitat for song birds as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-13)
- All areas that provide or could potentially provide habitat for hawks, vultures and owls as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-14)
- All areas that provide or could potentially provide habitat for horned toads and bullfrogs as protected by the state of New Mexico statute (New Mexico Statute, 1978, Chapter 17, Game and Fish, 17-2-15 and 16, respectively)

2. Does the affected property contain land areas which were not listed in Question 1, but could be considered viable ecological habitat? The following are examples (but not a complete listing) of viable ecological habitats:

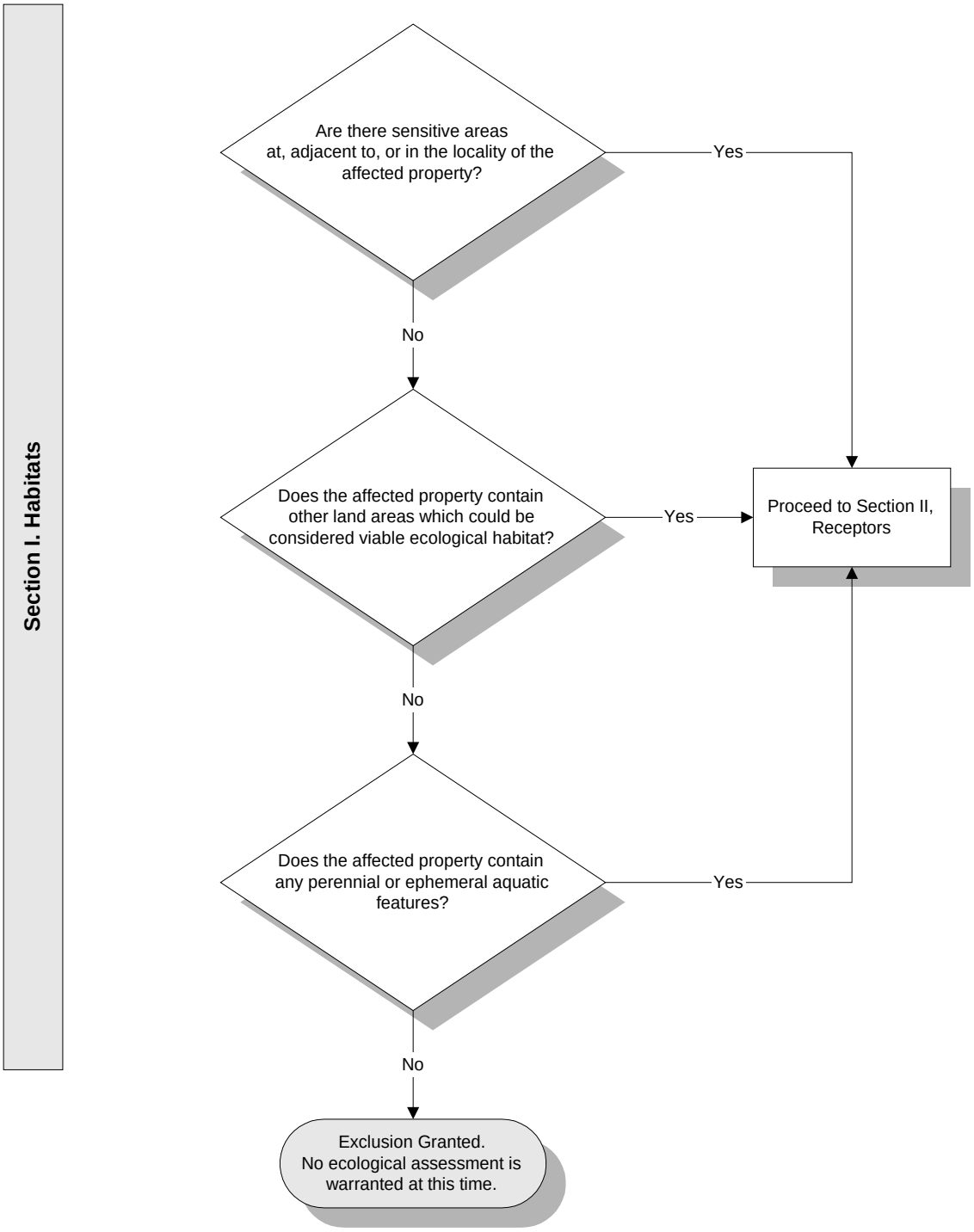
- Wooded areas
- Shrub/scrub vegetated areas
- Open fields (prairie)
- Other grassy areas – **SOME present**
- Desert areas
- Any other areas which support wildlife and/or vegetation, excluding areas which support only opportunistic species (such as house mice, Norway rats, pigeons, etc.) that do not serve as prey to species in adjacent habitats.

The following features are <u>not</u> considered ecologically viable:

- Pavement
- Buildings
- Paved areas of roadways
- Paved/concrete equipment storage pads
- Paved manufacturing or process areas
- Other non-natural surface cover or structure

3. Does the affected property contain any perennial or ephemeral aquatic features which were not listed in Question 1? **NO**

Figure 1 -Ecological Exclusion Criteria Decision Tree



CONCLUSION: TA/AS-C129 does not meet criteria for exclusion of further ecological analysis.

II. Receptors

1. Is any part of the affected property used for habitat, foraging area, or refuge by any rare, threatened, or endangered species (plant *or* animal), or otherwise protected species (e.g., raptors, migratory birds)? **NO**

2. Is any part of the affected property used for habitat, foraging area, or refuge by any species used as a recreational (e.g., game animals) and/or commercial resource? **NO**
3. Is any part of the affected property used for habitat, foraging area, or refuge by any plant or animal species? This includes plants considered "weeds" and opportunistic insect and animal species (such as cockroaches and rats) if they are used as a food source for other species in the area. **YES**

III. Exposure Pathways

1. Could receptors be impacted by contaminants via direct contact? **YES**

   Is a receptor located in or using an area where it could contact contaminated air, soil, or surface water? **YES**

For Questions 2 and 3, note that one must answer "yes" to all three bullets in order to be directed to the "exclusion denied" box of the decision tree. This is because answering "no" to one of the questions in the bullet list indicates that a complete exposure pathway is not present. For example, in Question 2, if the chemical cannot leach or dissolve to groundwater (bullet 1), there is no chance of ecological receptors being exposed to the chemical through contact with contaminated groundwater. Similarly, the responses to the questions in Question 4 determine whether a complete pathway exists for exposure to NAPL.

2. Could receptors contact contaminants via groundwater? **NO**
   - Can the chemical leach or dissolve to groundwater4? **YES**
   - Can groundwater mobilize the chemical? **YES**
   - Could (does) contaminated groundwater discharge into known or potential receptor habitats? **NO**

3. Could receptors contact contaminants via runoff (i.e., surface water and/or suspended sediment) or erosion by water or wind? **YES**
   - Are chemicals present in surface soils? **YES**
   - Can the chemical be leached from or eroded with surface soils? **YES**
   - Is there a receptor habitat located downgradient of the leached/eroded surface soil? **YES**

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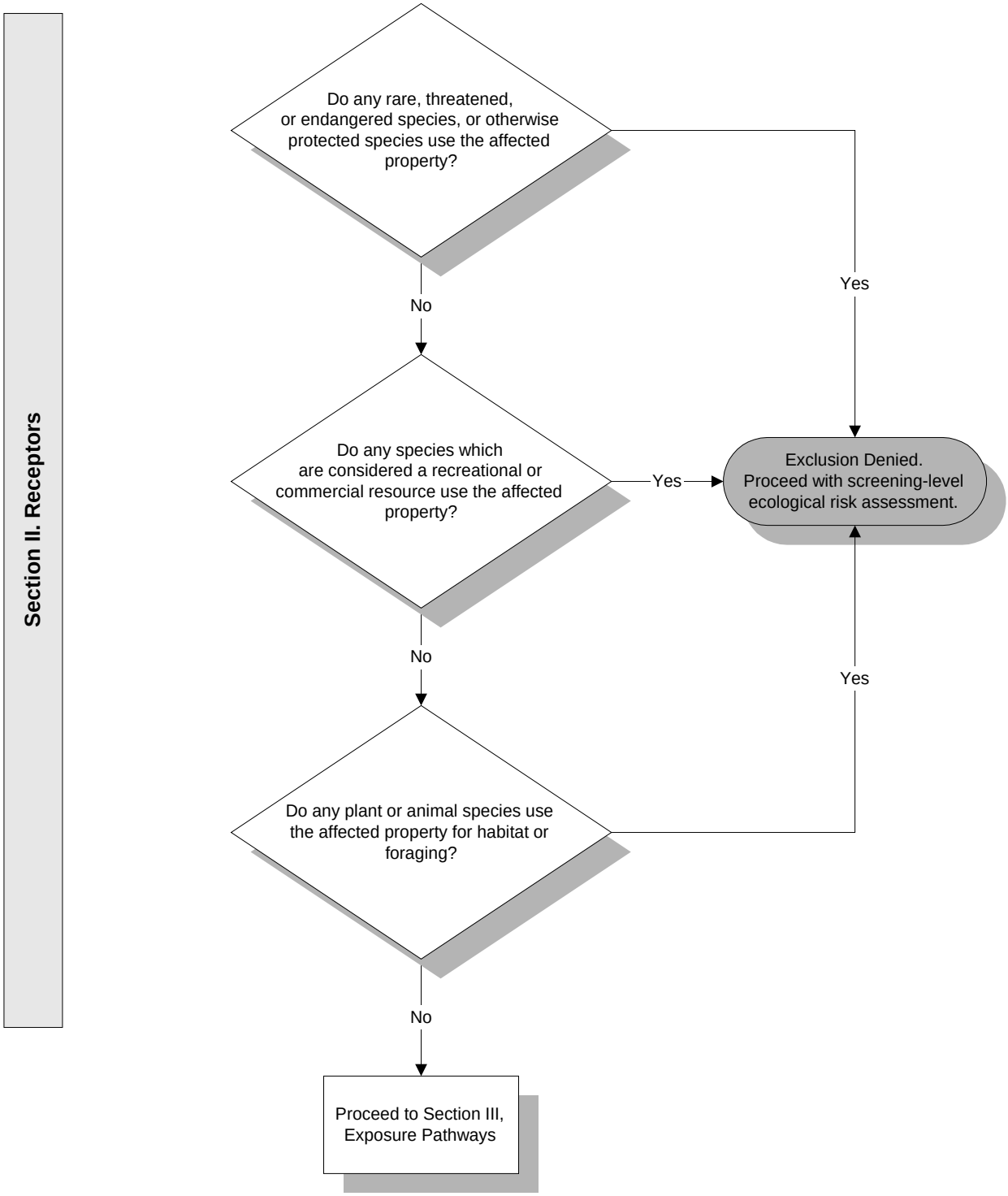
4 Information on the environmental fate of specific chemicals can be found on the Internet at *http://www.epa.gov/opptintr/chemfact/* or at a local library in published copies of the *Hazardous Substances Data Bank*.

4. Could receptors contact contaminants via migration of non-aqueous phase liquids (NAPL)?

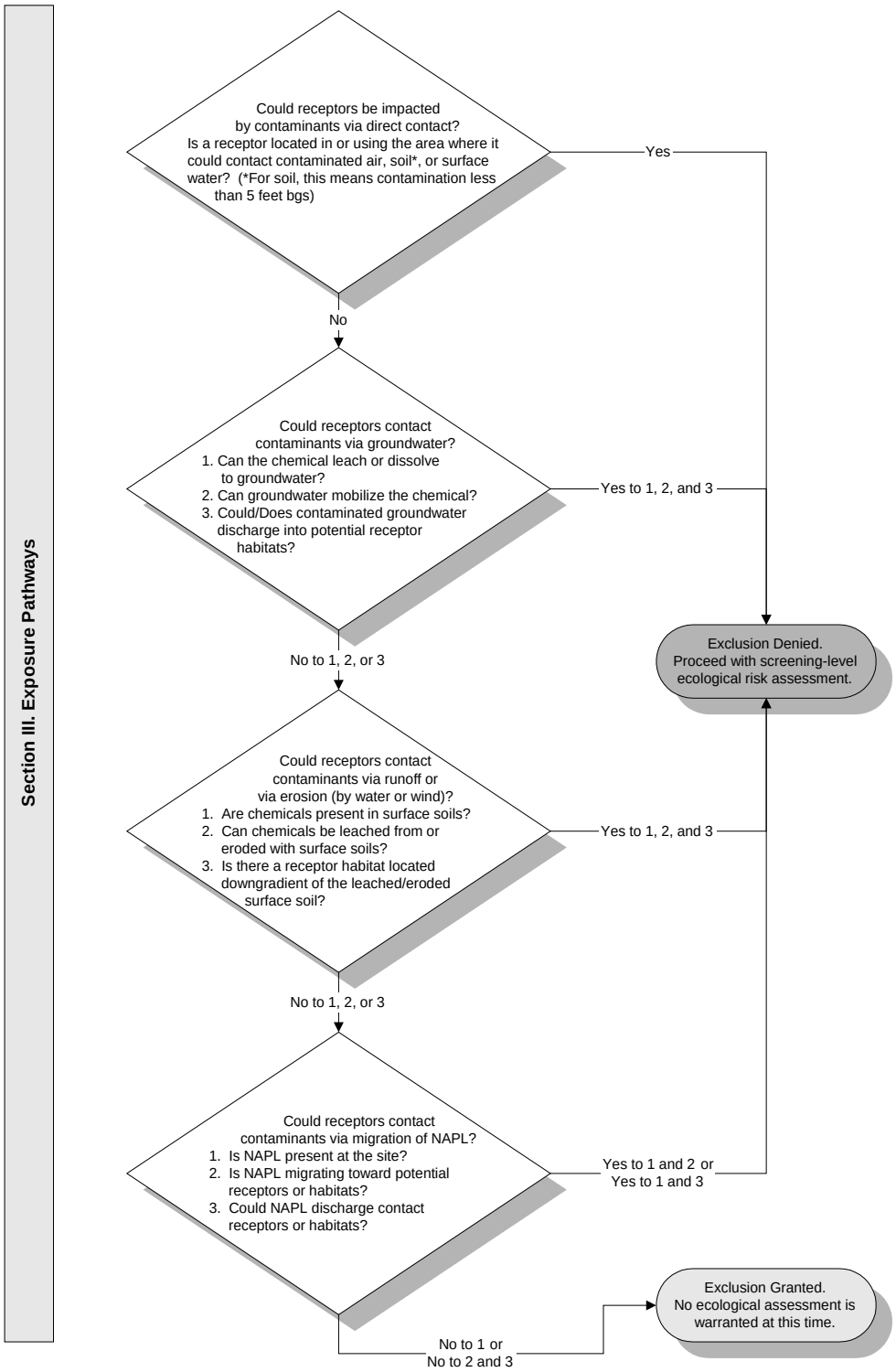
- Is NAPL present at the site? **NO**
- Is NAPL migrating toward potential receptors or habitats? **NO**
- Could NAPL discharge impact receptors or habitats? **NO**

Figure 1 - Exclusion Criteria Decision Tree (continued)



CONCLUSION: Exclusion denied.

Figure 1 - Exclusion Criteria Decision Tree (continued)



CONCLUSION: Exclusion denied.

CANNON AFB SS-C507 ProUCL OUTPUT SHEETS

General UCL Statistics for Data Sets with Non-Detects

User Selected Options

From File	WorkSheet.wst
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

SS-C507 POL YARD - UCLs for SLERA

Lead

General Statistics

Number of Valid Observations	132	Number of Distinct Observations	119

Raw Statistics		Log-transformed Statistics	
Minimum	3.29	Minimum of Log Data	1.191
Maximum	300	Maximum of Log Data	5.704
Mean	24.34	Mean of log Data	2.465
Geometric Mean	11.77	SD of log Data	0.978
Median	8.425		
SD	47.44		
Std. Error of Mean	4.129		
Coefficient of Variation	1.949		
Skewness	3.994		

Relevant UCL Statistics

Normal Distribution Test		Lognormal Distribution Test	
Lilliefors Test Statistic	0.361	Lilliefors Test Statistic	0.237
Lilliefors Critical Value	0.0771	Lilliefors Critical Value	0.0771
Data not Normal at 5% Significance Level		**Data not Lognormal at 5% Significance Level**	

Assuming Normal Distribution		Assuming Lognormal Distribution	
95% Student's-t UCL	31.18	95% H-UCL	22.86
95% UCLs (Adjusted for Skewness)		95% Chebyshev (MVUE) UCL	27.27
95% Adjusted-CLT UCL (Chen-1995)	32.66	97.5% Chebyshev (MVUE) UCL	30.9
95% Modified-t UCL (Johnson-1978)	31.42	99% Chebyshev (MVUE) UCL	38.03

Gamma Distribution Test		Data Distribution
k star (bias corrected)	0.801	**Data do not follow a Discernable Distribution (0.05)**
Theta Star	30.38	
MLE of Mean	24.34	
MLE of Standard Deviation	27.19	
nu star	211.5	
Approximate Chi Square Value (.05)	178.8	**Nonparametric Statistics**
Adjusted Level of Significance	0.0482	95% CLT UCL 31.13
Adjusted Chi Square Value	178.5	95% Jackknife UCL 31.18
		95% Standard Bootstrap UCL 31.06
Anderson-Darling Test Statistic	16.91	95% Bootstrap-t UCL 33.47
Anderson-Darling 5% Critical Value	0.792	95% Hall's Bootstrap UCL 32.56

Kolmogorov-Smirnov Test Statistic	0.311	95% Percentile Bootstrap UCL	31.59
Kolmogorov-Smirnov 5% Critical Value	0.0842	95% BCA Bootstrap UCL	32.83
Data not Gamma Distributed at 5% Significance Level		95% Chebyshev(Mean, Sd) UCL	42.34
		97.5% Chebyshev(Mean, Sd) UCL	50.12
Assuming Gamma Distribution		99% Chebyshev(Mean, Sd) UCL	65.42
95% Approximate Gamma UCL (Use when n >= 40)	28.78		
95% Adjusted Gamma UCL (Use when n < 40)	28.83		
Potential UCL to Use		Use 95% Chebyshev (Mean, Sd) UCL	42.34

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

PCB-1260

General Statistics

Number of Valid Data	132	Number of Detected Data	36
Number of Distinct Detected Data	28	Number of Non-Detect Data	96
		Percent Non-Detects	72.73%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.027	Minimum Detected	-3.612
Maximum Detected	4.5	Maximum Detected	1.504
Mean of Detected	0.471	Mean of Detected	-1.49
SD of Detected	0.777	SD of Detected	1.221
Minimum Non-Detect	0.051	Minimum Non-Detect	-2.976
Maximum Non-Detect	0.058	Maximum Non-Detect	-2.847

Note: Data have multiple DLs - Use of KM Method is recommended		Number treated as Non-Detect	101
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	31
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	76.52%

UCL Statistics

Normal Distribution Test with Detected Values Only		**Lognormal Distribution Test with Detected Values Only**	
Shapiro Wilk Test Statistic	0.533	Shapiro Wilk Test Statistic	0.973
5% Shapiro Wilk Critical Value	0.935	5% Shapiro Wilk Critical Value	0.935
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.148	Mean	-3.015
SD	0.448	SD	1.13
95% DL/2 (t) UCL	0.213	95% H-Stat (DL/2) UCL	0.117
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-3.11
		SD in Log Scale	1.455

Mean in Original Scale	0.155
SD in Original Scale	0.447
95% t UCL	0.219
95% Percentile Bootstrap UCL	0.225
95% BCA Bootstrap UCL	0.267
95% H-UCL	0.18

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.757
Theta Star	0.622
nu star	54.48
A-D Test Statistic	0.83
5% A-D Critical Value	0.785
K-S Test Statistic	0.785
5% K-S Critical Value	0.152

Data follow Appr. Gamma Distribution at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	4.5
Mean	0.157
Median	0.000001
SD	0.451
k star	0.124
Theta star	1.262
Nu star	32.81
AppChi2	20.72
95% Gamma Approximate UCL (Use when n >= 40)	0.248
95% Adjusted Gamma UCL (Use when n < 40)	0.25

Note: DL/2 is not a recommended method.

Data Distribution Test with Detected Values Only

Data Follow Appr. Gamma Distribution at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.155
SD	0.445
SE of Mean	0.0393
95% KM (t) UCL	0.22
95% KM (z) UCL	0.22
95% KM (jackknife) UCL	0.219
95% KM (bootstrap t) UCL	0.287
95% KM (BCA) UCL	0.223
95% KM (Percentile Bootstrap) UCL	0.227
95% KM (Chebyshev) UCL	0.326
97.5% KM (Chebyshev) UCL	0.4
99% KM (Chebyshev) UCL	0.546

Potential UCLs to Use

95% KM (t) UCL	0.22

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

2-Methylnaphthalene

General Statistics

Number of Valid Data	132	Number of Detected Data	13
Number of Distinct Detected Data	11	Number of Non-Detect Data	119
		Percent Non-Detects	90.15%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0062	Minimum Detected	-5.083
Maximum Detected	0.037	Maximum Detected	-3.297
Mean of Detected	0.0152	Mean of Detected	-4.312
SD of Detected	0.00884	SD of Detected	0.508
Minimum Non-Detect	0.01	Minimum Non-Detect	-4.605
Maximum Non-Detect	0.035	Maximum Non-Detect	-3.352

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	131
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	1
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	99.24%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.802	Shapiro Wilk Test Statistic	0.937
5% Shapiro Wilk Critical Value	0.866	5% Shapiro Wilk Critical Value	0.866
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.00728	Mean	-5.021
SD	0.00448	SD	0.389
95% DL/2 (t) UCL	0.00793	95% H-Stat (DL/2) UCL	0.00755
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE method failed to converge properly		Mean in Log Scale	-4.976
		SD in Log Scale	0.452
		Mean in Original Scale	0.0077
		SD in Original Scale	0.00436
		95% t UCL	0.00833
		95% Percentile Bootstrap UCL	0.00836
		95% BCA Bootstrap UCL	0.00847
		95% H-UCL	0.00821

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only	
k star (bias corrected)	3.198	**Data appear Gamma Distributed at 5% Significance Level**	
Theta Star	0.00476		
nu star	83.15		
A-D Test Statistic	0.567	**Nonparametric Statistics**	
5% A-D Critical Value	0.737	Kaplan-Meier (KM) Method	

K-S Test Statistic	0.737
5% K-S Critical Value	0.238

Data appear Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	0.037
Mean	0.00883
Median	0.0095
SD	0.00622
k star	0.471
Theta star	0.0188
Nu star	124.4
AppChi2	99.6
95% Gamma Approximate UCL (Use when n >= 40)	0.011
95% Adjusted Gamma UCL (Use when n < 40)	0.0111

Note: DL/2 is not a recommended method.

Mean	0.00817
SD	0.00385
SE of Mean	0.0008371
95% KM (t) UCL	0.00956
95% KM (z) UCL	0.00955
95% KM (jackknife) UCL	0.0101
95% KM (bootstrap t) UCL	0.0123
95% KM (BCA) UCL	0.0115
95% KM (Percentile Bootstrap) UCL	0.0112
95% KM (Chebyshev) UCL	0.0118
97.5% KM (Chebyshev) UCL	0.0134
99% KM (Chebyshev) UCL	0.0165

Potential UCLs to Use

95% KM (t) UCL	0.00956

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Benzo(a)anthracene

General Statistics

Number of Valid Data	132
Number of Distinct Detected Data	50

Number of Detected Data	63
Number of Non-Detect Data	69
Percent Non-Detects	52.27%

Raw Statistics

Minimum Detected	0.0037
Maximum Detected	3.1
Mean of Detected	0.238
SD of Detected	0.577
Minimum Non-Detect	0.0031
Maximum Non-Detect	0.022

Log-transformed Statistics

Minimum Detected	-5.599
Maximum Detected	1.131
Mean of Detected	-2.982
SD of Detected	1.745
Minimum Non-Detect	-5.776
Maximum Non-Detect	-3.817

Note: Data have multiple DLs - Use of KM Method is recommended
For all methods (except KM, DL/2, and ROS Methods),
Observations < Largest ND are treated as NDs

Number treated as Non-Detect	92
Number treated as Detected	40
Single DL Non-Detect Percentage	69.70%

UCL Statistics

Normal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.349
5% Lilliefors Critical Value	0.112

Data not Normal at 5% Significance Level

Assuming Normal Distribution

DL/2 Substitution Method	
Mean	0.116
SD	0.414
95% DL/2 (t) UCL	0.176
Maximum Likelihood Estimate(MLE) Method	N/A

MLE yields a negative mean

Lognormal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.0937
5% Lilliefors Critical Value	0.112

Data appear Lognormal at 5% Significance Level

Assuming Lognormal Distribution

DL/2 Substitution Method	
Mean	-4.147
SD	1.645
95% H-Stat (DL/2) UCL	0.0921
Log ROS Method	
Mean in Log Scale	-4.246
SD in Log Scale	1.941
Mean in Original Scale	0.118
SD in Original Scale	0.413
95% t UCL	0.177
95% Percentile Bootstrap UCL	0.18
95% BCA Bootstrap UCL	0.202
95% H-UCL	0.162

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.413
Theta Star	0.576
nu star	52
A-D Test Statistic	3.103
5% A-D Critical Value	0.835
K-S Test Statistic	0.835
5% K-S Critical Value	0.12

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	3.1
Mean	0.115
Median	0.00425
SD	0.414
k star	0.131
Theta star	0.876
Nu star	34.61
AppChi2	22.15
95% Gamma Approximate UCL (Use when n >= 40)	0.179
95% Adjusted Gamma UCL (Use when n < 40)	0.18

Note: DL/2 is not a recommended method.

Data Distribution Test with Detected Values Only

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.117
SD	0.412
SE of Mean	0.0361
95% KM (t) UCL	0.177
95% KM (z) UCL	0.176
95% KM (jackknife) UCL	0.176
95% KM (bootstrap t) UCL	0.238
95% KM (BCA) UCL	0.189
95% KM (Percentile Bootstrap) UCL	0.179
95% KM (Chebyshev) UCL	0.274
97.5% KM (Chebyshev) UCL	0.342
99% KM (Chebyshev) UCL	0.476

Potential UCLs to Use

95% KM (Chebyshev) UCL	0.274

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Benzo(a)pyrene

General Statistics

Number of Valid Data	132	Number of Detected Data	69
Number of Distinct Detected Data	56	Number of Non-Detect Data	63
		Percent Non-Detects	47.73%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.0032	Minimum Detected	-5.745
Maximum Detected	3.3	Maximum Detected	1.194
Mean of Detected	0.25	Mean of Detected	-2.949
SD of Detected	0.583	SD of Detected	1.781
Minimum Non-Detect	0.0063	Minimum Non-Detect	-5.067
Maximum Non-Detect	0.012	Maximum Non-Detect	-4.423

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	82
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	50
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	62.12%

UCL Statistics

Normal Distribution Test with Detected Values Only		**Lognormal Distribution Test with Detected Values Only**	
Lilliefors Test Statistic	0.336	Lilliefors Test Statistic	0.119
5% Lilliefors Critical Value	0.107	5% Lilliefors Critical Value	0.107
Data not Normal at 5% Significance Level		**Data not Lognormal at 5% Significance Level**	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.133	Mean	-4.03
SD	0.438	SD	1.714
95% DL/2 (t) UCL	0.196	95% H-Stat (DL/2) UCL	0.12
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-4.045
		SD in Log Scale	1.905
		Mean in Original Scale	0.135
		SD in Original Scale	0.437
		95% t UCL	0.198
		95% Percentile Bootstrap UCL	0.206
		95% BCA Bootstrap UCL	0.217
		95% H-UCL	0.182

Gamma Distribution Test with Detected Values Only | **Data Distribution Test with Detected Values Only**

k star (bias corrected)	0.41
Theta Star	0.609
nu star	56.58

Data do not follow a Discernable Distribution (0.05)

A-D Test Statistic	3.193
5% A-D Critical Value	0.837
K-S Test Statistic	0.837
5% K-S Critical Value	0.115

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	3.3
Mean	0.131
Median	0.0054
SD	0.438
k star	0.135
Theta star	0.97
Nu star	35.61
AppChi2	22.96
95% Gamma Approximate UCL (Use when n >= 40)	0.203
95% Adjusted Gamma UCL (Use when n < 40)	0.204

Note: DL/2 is not a recommended method.

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.134
SD	0.436
SE of Mean	0.0382
95% KM (t) UCL	0.197
95% KM (z) UCL	0.197
95% KM (jackknife) UCL	0.197
95% KM (bootstrap t) UCL	0.245
95% KM (BCA) UCL	0.202
95% KM (Percentile Bootstrap) UCL	0.201
95% KM (Chebyshev) UCL	0.3
97.5% KM (Chebyshev) UCL	0.372
99% KM (Chebyshev) UCL	0.514

Potential UCLs to Use

97.5% KM (Chebyshev) UCL	0.372

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Benzo(b)fluoranthene

General Statistics

Number of Valid Data	132	Number of Detected Data	73
Number of Distinct Detected Data	58	Number of Non-Detect Data	59
		Percent Non-Detects	44.70%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.0029	Minimum Detected	-5.843
Maximum Detected	5.6	Maximum Detected	1.723
Mean of Detected	0.403	Mean of Detected	-2.709
SD of Detected	0.946	SD of Detected	2.014
Minimum Non-Detect	0.0036	Minimum Non-Detect	-5.627
Maximum Non-Detect	0.012	Maximum Non-Detect	-4.423

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	77
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	55
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	58.33%

UCL Statistics

Normal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.336
5% Lilliefors Critical Value	0.104

Data not Normal at 5% Significance Level

Assuming Normal Distribution

DL/2 Substitution Method	
Mean	0.225
SD	0.729
95% DL/2 (t) UCL	0.33
Maximum Likelihood Estimate(MLE) Method	N/A

MLE yields a negative mean

Lognormal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.0845
5% Lilliefors Critical Value	0.104

Data appear Lognormal at 5% Significance Level

Assuming Lognormal Distribution

DL/2 Substitution Method	
Mean	-3.838
SD	1.958
95% H-Stat (DL/2) UCL	0.254
Log ROS Method	
Mean in Log Scale	-4.078
SD in Log Scale	2.321
Mean in Original Scale	0.226
SD in Original Scale	0.729
95% t UCL	0.331
95% Percentile Bootstrap UCL	0.339
95% BCA Bootstrap UCL	0.364
95% H-UCL	0.526

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.364
Theta Star	1.107
nu star	53.15
A-D Test Statistic	2.885
5% A-D Critical Value	0.849
K-S Test Statistic	0.849
5% K-S Critical Value	0.112

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	5.6
Mean	0.223
Median	0.0048
SD	0.73
k star	0.13
Theta star	1.72
Nu star	34.21
AppChi2	21.83
95% Gamma Approximate UCL (Use when n >= 40)	0.349
95% Adjusted Gamma UCL (Use when n < 40)	0.351

Note: DL/2 is not a recommended method.

Data Distribution Test with Detected Values Only

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.225
SD	0.726
SE of Mean	0.0636
95% KM (t) UCL	0.33
95% KM (z) UCL	0.33
95% KM (jackknife) UCL	0.33
95% KM (bootstrap t) UCL	0.387
95% KM (BCA) UCL	0.343
95% KM (Percentile Bootstrap) UCL	0.338
95% KM (Chebyshev) UCL	0.502
97.5% KM (Chebyshev) UCL	0.622
99% KM (Chebyshev) UCL	0.858

Potential UCLs to Use

97.5% KM (Chebyshev) UCL	0.622

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Benzo(k)fluoranthene

General Statistics

Number of Valid Data	132	Number of Detected Data	56
Number of Distinct Detected Data	49	Number of Non-Detect Data	76
		Percent Non-Detects	57.58%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.003	Minimum Detected	-5.809
Maximum Detected	1.9	Maximum Detected	0.642
Mean of Detected	0.165	Mean of Detected	-3.203
SD of Detected	0.366	SD of Detected	1.695
Minimum Non-Detect	0.01	Minimum Non-Detect	-4.605
Maximum Non-Detect	0.022	Maximum Non-Detect	-3.817

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	96
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	36
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	72.73%

UCL Statistics

Normal Distribution Test with Detected Values Only		**Lognormal Distribution Test with Detected Values Only**	
Lilliefors Test Statistic	0.329	Lilliefors Test Statistic	0.0925
5% Lilliefors Critical Value	0.118	5% Lilliefors Critical Value	0.118
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0732	Mean	-4.35
SD	0.25	SD	1.479
95% DL/2 (t) UCL	0.109	95% H-Stat (DL/2) UCL	0.0544
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-4.448
		SD in Log Scale	1.775
		Mean in Original Scale	0.0745
		SD in Original Scale	0.25
		95% t UCL	0.11
		95% Percentile Bootstrap UCL	0.114
		95% BCA Bootstrap UCL	0.122
		95% H-UCL	0.09

Gamma Distribution Test with Detected Values Only | **Data Distribution Test with Detected Values Only**

k star (bias corrected)	0.447
Theta Star	0.369
nu star	50.04

Data appear Lognormal at 5% Significance Level

A-D Test Statistic	2.288
5% A-D Critical Value	0.825
K-S Test Statistic	0.825
5% K-S Critical Value	0.126

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	1.9
Mean	0.0734
Median	0.00156
SD	0.25
k star	0.135
Theta star	0.542
Nu star	35.7
AppChi2	23.03
95% Gamma Approximate UCL (Use when n >= 40)	0.114
95% Adjusted Gamma UCL (Use when n < 40)	0.114

Note: DL/2 is not a recommended method.

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.0732
SD	0.249
SE of Mean	0.0219
95% KM (t) UCL	0.109
95% KM (z) UCL	0.109
95% KM (jackknife) UCL	0.109
95% KM (bootstrap t) UCL	0.144
95% KM (BCA) UCL	0.115
95% KM (Percentile Bootstrap) UCL	0.111
95% KM (Chebyshev) UCL	0.168
97.5% KM (Chebyshev) UCL	0.21
99% KM (Chebyshev) UCL	0.291

Potential UCLs to Use

95% KM (Chebyshev) UCL	0.168

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Chrysene

General Statistics

Number of Valid Data	132	Number of Detected Data	62
Number of Distinct Detected Data	54	Number of Non-Detect Data	70
		Percent Non-Detects	53.03%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.003	Minimum Detected	-5.809
Maximum Detected	4.2	Maximum Detected	1.435
Mean of Detected	0.319	Mean of Detected	-2.818
SD of Detected	0.743	SD of Detected	1.946
Minimum Non-Detect	0.01	Minimum Non-Detect	-4.605
Maximum Non-Detect	0.022	Maximum Non-Detect	-3.817

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	91
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	41
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	68.94%

UCL Statistics

Normal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.338
5% Lilliefors Critical Value	0.113

Data not Normal at 5% Significance Level

Assuming Normal Distribution

DL/2 Substitution Method	
Mean	0.153
SD	0.531
95% DL/2 (t) UCL	0.23
Maximum Likelihood Estimate(MLE) Method	N/A

MLE yields a negative mean

Lognormal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.0885
5% Lilliefors Critical Value	0.113

Data appear Lognormal at 5% Significance Level

Assuming Lognormal Distribution

DL/2 Substitution Method	
Mean	-4.068
SD	1.78
95% H-Stat (DL/2) UCL	0.133
Log ROS Method	
Mean in Log Scale	-4.149
SD in Log Scale	2.06
Mean in Original Scale	0.155
SD in Original Scale	0.531
95% t UCL	0.231
95% Percentile Bootstrap UCL	0.238
95% BCA Bootstrap UCL	0.253
95% H-UCL	0.24

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.385
Theta Star	0.829
nu star	47.77
A-D Test Statistic	2.222
5% A-D Critical Value	0.841
K-S Test Statistic	0.841
5% K-S Critical Value	0.121

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	4.2
Mean	0.151
Median	0.0015
SD	0.532
k star	0.125
Theta star	1.21
Nu star	32.98
AppChi2	20.85
95% Gamma Approximate UCL (Use when n >= 40)	0.239
95% Adjusted Gamma UCL (Use when n < 40)	0.24

Note: DL/2 is not a recommended method.

Data Distribution Test with Detected Values Only

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.153
SD	0.529
SE of Mean	0.0464
95% KM (t) UCL	0.23
95% KM (z) UCL	0.229
95% KM (jackknife) UCL	0.23
95% KM (bootstrap t) UCL	0.286
95% KM (BCA) UCL	0.235
95% KM (Percentile Bootstrap) UCL	0.236
95% KM (Chebyshev) UCL	0.355
97.5% KM (Chebyshev) UCL	0.443
99% KM (Chebyshev) UCL	0.615

Potential UCLs to Use

95% KM (Chebyshev) UCL	0.355

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Dibenz(a,h)anthracene

General Statistics

Number of Valid Data	132	Number of Detected Data	50
Number of Distinct Detected Data	35	Number of Non-Detect Data	82
		Percent Non-Detects	62.12%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.0056	Minimum Detected	-5.185
Maximum Detected	0.46	Maximum Detected	-0.777
Mean of Detected	0.0552	Mean of Detected	-3.593
SD of Detected	0.0907	SD of Detected	1.067
Minimum Non-Detect	0.01	Minimum Non-Detect	-4.605
Maximum Non-Detect	0.022	Maximum Non-Detect	-3.817

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	106
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	26
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	80.30%

UCL Statistics

Normal Distribution Test with Detected Values Only		**Lognormal Distribution Test with Detected Values Only**	
Shapiro Wilk Test Statistic	0.549	Shapiro Wilk Test Statistic	0.924
5% Shapiro Wilk Critical Value	0.947	5% Shapiro Wilk Critical Value	0.947
Data not Normal at 5% Significance Level		**Data not Lognormal at 5% Significance Level**	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0245	Mean	-4.576
SD	0.0605	SD	1.015
95% DL/2 (t) UCL	0.0332	95% H-Stat (DL/2) UCL	0.021
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-4.668
		SD in Log Scale	1.244
		Mean in Original Scale	0.0249
		SD in Original Scale	0.0604
		95% t UCL	0.0336
		95% Percentile Bootstrap UCL	0.0339
		95% BCA Bootstrap UCL	0.036
		95% H-UCL	0.0265

Gamma Distribution Test with Detected Values Only	**Data Distribution Test with Detected Values Only**

k star (bias corrected)	0.809
Theta Star	0.0682
nu star	80.91

Data do not follow a Discernable Distribution (0.05)

A-D Test Statistic	3.183
5% A-D Critical Value	0.788
K-S Test Statistic	0.788
5% K-S Critical Value	0.13

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	0.46
Mean	0.0232
Median	0.00502
SD	0.0612
k star	0.161
Theta star	0.145
Nu star	42.39
AppChi2	28.47
95% Gamma Approximate UCL (Use when n >= 40)	0.0346
95% Adjusted Gamma UCL (Use when n < 40)	0.0348

Note: DL/2 is not a recommended method.

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.0259
SD	0.0598
SE of Mean	0.00527
95% KM (t) UCL	0.0346
95% KM (z) UCL	0.0346
95% KM (jackknife) UCL	0.0346
95% KM (bootstrap t) UCL	0.0391
95% KM (BCA) UCL	0.0351
95% KM (Percentile Bootstrap) UCL	0.0354
95% KM (Chebyshev) UCL	0.0489
97.5% KM (Chebyshev) UCL	0.0588
99% KM (Chebyshev) UCL	0.0784

Potential UCLs to Use

95% KM (BCA) UCL	0.0351

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Indeno(1,2,3-cd)pyrene

General Statistics

Number of Valid Data	132	Number of Detected Data	70
Number of Distinct Detected Data	57	Number of Non-Detect Data	62
		Percent Non-Detects	46.97%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.0028	Minimum Detected	-5.878
Maximum Detected	1.6	Maximum Detected	0.47
Mean of Detected	0.151	Mean of Detected	-3.276
SD of Detected	0.308	SD of Detected	1.693
Minimum Non-Detect	0.01	Minimum Non-Detect	-4.605
Maximum Non-Detect	0.022	Maximum Non-Detect	-3.817

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	92
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	40
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	69.70%

UCL Statistics

Normal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.316
5% Lilliefors Critical Value	0.106

Data not Normal at 5% Significance Level

Assuming Normal Distribution

DL/2 Substitution Method	
Mean	0.0828
SD	0.235
95% DL/2 (t) UCL	0.117
Maximum Likelihood Estimate(MLE) Method	N/A

MLE yields a negative mean

Lognormal Distribution Test with Detected Values Only

Lilliefors Test Statistic	0.127
5% Lilliefors Critical Value	0.106

Data not Lognormal at 5% Significance Level

Assuming Lognormal Distribution

DL/2 Substitution Method	
Mean	-4.176
SD	1.561
95% H-Stat (DL/2) UCL	0.0757
Log ROS Method	
Mean in Log Scale	-4.122
SD in Log Scale	1.691
Mean in Original Scale	0.0847
SD in Original Scale	0.235
95% t UCL	0.119
95% Percentile Bootstrap UCL	0.12
95% BCA Bootstrap UCL	0.128
95% H-UCL	0.104

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.453
Theta Star	0.334
nu star	63.46
A-D Test Statistic	3.039
5% A-D Critical Value	0.826
K-S Test Statistic	0.826
5% K-S Critical Value	0.113

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	1.6
Mean	0.0838
Median	0.00665
SD	0.235
k star	0.158
Theta star	0.53
Nu star	41.73
AppChi2	27.92
95% Gamma Approximate UCL (Use when n >= 40)	0.125
95% Adjusted Gamma UCL (Use when n < 40)	0.126

Note: DL/2 is not a recommended method.

Data Distribution Test with Detected Values Only

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.0832
SD	0.234
SE of Mean	0.0205
95% KM (t) UCL	0.117
95% KM (z) UCL	0.117
95% KM (jackknife) UCL	0.117
95% KM (bootstrap t) UCL	0.136
95% KM (BCA) UCL	0.12
95% KM (Percentile Bootstrap) UCL	0.12
95% KM (Chebyshev) UCL	0.173
97.5% KM (Chebyshev) UCL	0.211
99% KM (Chebyshev) UCL	0.287

Potential UCLs to Use

97.5% KM (Chebyshev) UCL	0.211

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

CANNON AFB SD-C508 ProUCL OUTPUT SHEETS

General UCL Statistics for Full Data Sets

User Selected Options

From File	WorkSheet.wst
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

SD-C508 SURFACE DISPOSAL AREA - SLERA UCLs

Barium

General Statistics

Number of Valid Observations	27	Number of Distinct Observations	24

Raw Statistics

Minimum	105
Maximum	844
Mean	215.7
Geometric Mean	181.7
Median	155
SD	163.7
Std. Error of Mean	31.5
Coefficient of Variation	0.759
Skewness	2.607

Log-transformed Statistics

Minimum of Log Data	4.654
Maximum of Log Data	6.738
Mean of log Data	5.202
SD of log Data	0.538

Relevant UCL Statistics

Normal Distribution Test

Shapiro Wilk Test Statistic	0.662
Shapiro Wilk Critical Value	0.923

Data not Normal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	269.5

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	284.4
95% Modified-t UCL (Johnson-1978)	272.1

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.844
Shapiro Wilk Critical Value	0.923

Data not Lognormal at 5% Significance Level

Assuming Lognormal Distribution

95% H-UCL	259.3
95% Chebyshev (MVUE) UCL	307.3
97.5% Chebyshev (MVUE) UCL	350
99% Chebyshev (MVUE) UCL	433.8

Gamma Distribution Test

k star (bias corrected)	2.751
Theta Star	78.42
MLE of Mean	215.7
MLE of Standard Deviation	130.1
nu star	148.6
Approximate Chi Square Value (.05)	121.4
Adjusted Level of Significance	0.0401
Adjusted Chi Square Value	119.8

Data Distribution

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

95% CLT UCL	267.5
95% Jackknife UCL	269.5

Anderson-Darling Test Statistic	2.087
Anderson-Darling 5% Critical Value	0.751
Kolmogorov-Smirnov Test Statistic	0.233
Kolmogorov-Smirnov 5% Critical Value	0.169

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL (Use when n >= 40)	264
95% Adjusted Gamma UCL (Use when n < 40)	267.5

95% Standard Bootstrap UCL	267.9
95% Bootstrap-t UCL	302
95% Hall's Bootstrap UCL	312.6
95% Percentile Bootstrap UCL	268.7
95% BCA Bootstrap UCL	292
95% Chebyshev(Mean, Sd) UCL	353
97.5% Chebyshev(Mean, Sd) UCL	412.4
99% Chebyshev(Mean, Sd) UCL	529.1

Potential UCL to Use

Use 95% Chebyshev (Mean, Sd) UCL	353

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Cadmium

General Statistics

Number of Valid Observations	27
Number of Distinct Observations	25

Raw Statistics

Minimum	0.162
Maximum	3.79
Mean	0.521
Geometric Mean	0.34
Median	0.254
SD	0.772
Std. Error of Mean	0.149
Coefficient of Variation	1.481
Skewness	3.492

Log-transformed Statistics

Minimum of Log Data	-1.82
Maximum of Log Data	1.332
Mean of log Data	-1.079
SD of log Data	0.753

Relevant UCL Statistics

Normal Distribution Test

Shapiro Wilk Test Statistic	0.464
Shapiro Wilk Critical Value	0.923

Data not Normal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	0.775

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	0.873
95% Modified-t UCL (Johnson-1978)	0.792

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.732
Shapiro Wilk Critical Value	0.923

Data not Lognormal at 5% Significance Level

Assuming Lognormal Distribution

95% H-UCL	0.626
95% Chebyshev (MVUE) UCL	0.752
97.5% Chebyshev (MVUE) UCL	0.885
99% Chebyshev (MVUE) UCL	1.145

Gamma Distribution Test

k star (bias corrected)	1.188
Theta Star	0.439
MLE of Mean	0.521
MLE of Standard Deviation	0.478
nu star	64.16
Approximate Chi Square Value (.05)	46.73
Adjusted Level of Significance	0.0401
Adjusted Chi Square Value	45.78
Anderson-Darling Test Statistic	4.08
Anderson-Darling 5% Critical Value	0.767
Kolmogorov-Smirnov Test Statistic	0.321
Kolmogorov-Smirnov 5% Critical Value	0.172

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL (Use when n >= 40)	0.716
95% Adjusted Gamma UCL (Use when n < 40)	0.731

Data Distribution

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

95% CLT UCL	0.766
95% Jackknife UCL	0.775
95% Standard Bootstrap UCL	0.76
95% Bootstrap-t UCL	1.148
95% Hall's Bootstrap UCL	0.945
95% Percentile Bootstrap UCL	0.792
95% BCA Bootstrap UCL	0.935
95% Chebyshev(Mean, Sd) UCL	1.169
97.5% Chebyshev(Mean, Sd) UCL	1.45
99% Chebyshev(Mean, Sd) UCL	2

Potential UCL to Use

Use 95% Chebyshev (Mean, Sd) UCL 1.169

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Lead

General Statistics

Number of Valid Observations	27	Number of Distinct Observations	26

Raw Statistics

Minimum	3.64
Maximum	31.3
Mean	9.95
Geometric Mean	8.171
Median	6.99
SD	7.307
Std. Error of Mean	1.406
Coefficient of Variation	0.734
Skewness	1.905

Log-transformed Statistics

Minimum of Log Data	1.292
Maximum of Log Data	3.444
Mean of log Data	2.101
SD of log Data	0.608

Relevant UCL Statistics

CANNON AFB SD-C508 ProUCL OUTPUT SHEETS

Normal Distribution Test

Shapiro Wilk Test Statistic	0.76
Shapiro Wilk Critical Value	0.923

Data not Normal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	12.35

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	12.81
95% Modified-t UCL (Johnson-1978)	12.43

Gamma Distribution Test

k star (bias corrected)	2.419
Theta Star	4.114
MLE of Mean	9.95
MLE of Standard Deviation	6.398
nu star	130.6
Approximate Chi Square Value (.05)	105.2
Adjusted Level of Significance	0.0401
Adjusted Chi Square Value	103.8
Anderson-Darling Test Statistic	0.957
Anderson-Darling 5% Critical Value	0.753
Kolmogorov-Smirnov Test Statistic	0.175
Kolmogorov-Smirnov 5% Critical Value	0.17

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL (Use when n >= 40)	12.35
95% Adjusted Gamma UCL (Use when n < 40)	12.53

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.928
Shapiro Wilk Critical Value	0.923

Data appear Lognormal at 5% Significance Level

Assuming Lognormal Distribution

95% H-UCL	12.58
95% Chebyshev (MVUE) UCL	15.03
97.5% Chebyshev (MVUE) UCL	17.31
99% Chebyshev (MVUE) UCL	21.79

Data Distribution

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

95% CLT UCL	12.26
95% Jackknife UCL	12.35
95% Standard Bootstrap UCL	12.18
95% Bootstrap-t UCL	13.63
95% Hall's Bootstrap UCL	14.44
95% Percentile Bootstrap UCL	12.38
95% BCA Bootstrap UCL	12.78
95% Chebyshev(Mean, Sd) UCL	16.08
97.5% Chebyshev(Mean, Sd) UCL	18.73
99% Chebyshev(Mean, Sd) UCL	23.94

Potential UCL to Use Use 95% H-UCL 12.58

ProUCL computes and outputs H-statistic based UCLs for historical reasons only.
H-statistic often results in unstable (both high and low) values of UCL95 as shown in examples in the Technical Guide.
It is therefore recommended to avoid the use of H-statistic based 95% UCLs.
Use of nonparametric methods are preferred to compute UCL95 for skewed data sets which do not follow a gamma distribution.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

TCDD-EQ C508

CANNON AFB SD-C508 ProUCL OUTPUT SHEETS

General Statistics

Number of Valid Observations	21	Number of Distinct Observations	21

Raw Statistics

Minimum	0.000576
Maximum	13.1
Mean	1.514
Geometric Mean	0.0942
Median	0.303
SD	3.339
Std. Error of Mean	0.729
Coefficient of Variation	2.205
Skewness	2.777

Log-transformed Statistics

Minimum of Log Data	-7.459
Maximum of Log Data	2.573
Mean of log Data	-2.362
SD of log Data	3.154

Relevant UCL Statistics

Normal Distribution Test

Shapiro Wilk Test Statistic	0.512
Shapiro Wilk Critical Value	0.908

Data not Normal at 5% Significance Level

Lognormal Distribution Test

Shapiro Wilk Test Statistic	0.927
Shapiro Wilk Critical Value	0.908

Data appear Lognormal at 5% Significance Level

Assuming Normal Distribution

95% Student's-t UCL	2.771

95% UCLs (Adjusted for Skewness)

95% Adjusted-CLT UCL (Chen-1995)	3.185
95% Modified-t UCL (Johnson-1978)	2.844

Assuming Lognormal Distribution

95% H-UCL	1071
95% Chebyshev (MVUE) UCL	24.45
97.5% Chebyshev (MVUE) UCL	32.71
99% Chebyshev (MVUE) UCL	48.93

Gamma Distribution Test

k star (bias corrected)	0.25
Theta Star	6.049
MLE of Mean	1.514
MLE of Standard Deviation	3.026
nu star	10.51
Approximate Chi Square Value (.05)	4.264
Adjusted Level of Significance	0.0383
Adjusted Chi Square Value	3.962
Anderson-Darling Test Statistic	0.688
Anderson-Darling 5% Critical Value	0.866
Kolmogorov-Smirnov Test Statistic	0.171
Kolmogorov-Smirnov 5% Critical Value	0.207

Data appear Gamma Distributed at 5% Significance Level

Data Distribution

Data appear Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

95% Approximate Gamma UCL (Use when n >= 40)	3.732
95% Adjusted Gamma UCL (Use when n < 40)	4.017

Nonparametric Statistics

95% CLT UCL	2.713
95% Jackknife UCL	2.771
95% Standard Bootstrap UCL	2.711
95% Bootstrap-t UCL	4.487
95% Hall's Bootstrap UCL	3.208
95% Percentile Bootstrap UCL	2.832
95% BCA Bootstrap UCL	3.311
95% Chebyshev(Mean, Sd) UCL	4.69
97.5% Chebyshev(Mean, Sd) UCL	6.065
99% Chebyshev(Mean, Sd) UCL	8.764

Potential UCL to Use	Use 95% Adjusted Gamma UCL 4.017

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002) and Singh and Singh (2003). For additional insight, the user may want to consult a statistician.

Benzo(a)anthracene

General Statistics

Number of Valid Data	27	Number of Detected Data	14
Number of Distinct Detected Data	13	Number of Non-Detect Data	13
Number of Missing Values	1	Percent Non-Detects	48.15%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0029	Minimum Detected	-5.843
Maximum Detected	1.8	Maximum Detected	0.588
Mean of Detected	0.152	Mean of Detected	-4.007
SD of Detected	0.475	SD of Detected	1.775
Minimum Non-Detect	0.011	Minimum Non-Detect	-4.51
Maximum Non-Detect	0.032	Maximum Non-Detect	-3.442

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	23
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	4
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	85.19%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.345	Shapiro Wilk Test Statistic	0.874
5% Shapiro Wilk Critical Value	0.874	5% Shapiro Wilk Critical Value	0.874
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0821	Mean	-4.519
SD	0.344	SD	1.386
95% DL/2 (t) UCL	0.195	95% H-Stat (DL/2) UCL	0.0654
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-4.72
		SD in Log Scale	1.6
		Mean in Original Scale	0.0817
		SD in Original Scale	0.344
		95% t UCL	0.195
		95% Percentile Bootstrap UCL	0.213

95% BCA Bootstrap UCL	0.287
95% H-UCL	0.0929

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.3
Theta Star	0.508
nu star	8.397
A-D Test Statistic	1.98
5% A-D Critical Value	0.828
K-S Test Statistic	0.828
5% K-S Critical Value	0.247

Data not Gamma Distributed at 5% Significance Level

Data Distribution Test with Detected Values Only

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.0814
SD	0.338
SE of Mean	0.0675
95% KM (t) UCL	0.197
95% KM (z) UCL	0.192
95% KM (jackknife) UCL	0.194
95% KM (bootstrap t) UCL	1.668
95% KM (BCA) UCL	0.216
95% KM (Percentile Bootstrap) UCL	0.212
95% KM (Chebyshev) UCL	0.376
97.5% KM (Chebyshev) UCL	0.503
99% KM (Chebyshev) UCL	0.753

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	1.8
Mean	0.0802
Median	0.003
SD	0.345
k star	0.144
Theta star	0.557
Nu star	7.775
AppChi2	2.605
95% Gamma Approximate UCL (Use when n >= 40)	0.239
95% Adjusted Gamma UCL (Use when n < 40)	0.258

Potential UCLs to Use

99% KM (Chebyshev) UCL	0.753

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Benzo(a)pyrene

General Statistics

Number of Valid Data	27	Number of Detected Data	14
Number of Distinct Detected Data	13	Number of Non-Detect Data	13
Number of Missing Values	1	Percent Non-Detects	48.15%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0052	Minimum Detected	-5.259
Maximum Detected	2	Maximum Detected	0.693
Mean of Detected	0.176	Mean of Detected	-3.565

SD of Detected	0.527
Minimum Non-Detect	0.011
Maximum Non-Detect	0.011

SD of Detected	1.592
Minimum Non-Detect	-4.51
Maximum Non-Detect	-4.51

UCL Statistics

Normal Distribution Test with Detected Values Only

Shapiro Wilk Test Statistic	0.354
5% Shapiro Wilk Critical Value	0.874

Data not Normal at 5% Significance Level

Assuming Normal Distribution

DL/2 Substitution Method	
Mean	0.0938
SD	0.382
95% DL/2 (t) UCL	0.219
Maximum Likelihood Estimate(MLE) Method	N/A

MLE yields a negative mean

Lognormal Distribution Test with Detected Values Only

Shapiro Wilk Test Statistic	0.86
5% Shapiro Wilk Critical Value	0.874

Data not Lognormal at 5% Significance Level

Assuming Lognormal Distribution

DL/2 Substitution Method	
Mean	-4.354
SD	1.401
95% H-Stat (DL/2) UCL	0.0801
Log ROS Method	
Mean in Log Scale	-4.449
SD in Log Scale	1.602
Mean in Original Scale	0.0942
SD in Original Scale	0.382
95% t UCL	0.22
95% Percentile Bootstrap UCL	0.239
95% BCA Bootstrap UCL	0.32
95% H-UCL	0.122

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.335
Theta Star	0.525
nu star	9.373
A-D Test Statistic	2.077
5% A-D Critical Value	0.819
K-S Test Statistic	0.819
5% K-S Critical Value	0.246

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	2
Mean	0.0912
Median	0.0052
SD	0.383

Data Distribution Test with Detected Values Only

Data do not follow a Discernable Distribution (0.05)

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.0945
SD	0.375
SE of Mean	0.0749
95% KM (t) UCL	0.222
95% KM (z) UCL	0.218
95% KM (jackknife) UCL	0.22
95% KM (bootstrap t) UCL	1.593
95% KM (BCA) UCL	0.241
95% KM (Percentile Bootstrap) UCL	0.241
95% KM (Chebyshev) UCL	0.421
97.5% KM (Chebyshev) UCL	0.562

k star	0.139	99% KM (Chebyshev) UCL	0.84
Theta star	0.656		
Nu star	7.509	**Potential UCLs to Use**	
AppChi2	2.454	99% KM (Chebyshev) UCL	0.84
95% Gamma Approximate UCL (Use when n >= 40)	0.279		
95% Adjusted Gamma UCL (Use when n < 40)	0.301		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006). For additional insight, the user may want to consult a statistician.

Benzo(b)fluoranthene

General Statistics

Number of Valid Data	27	Number of Detected Data	15
Number of Distinct Detected Data	14	Number of Non-Detect Data	12
Number of Missing Values	1	Percent Non-Detects	44.44%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.0035	Minimum Detected	-5.655
Maximum Detected	2.5	Maximum Detected	0.916
Mean of Detected	0.208	Mean of Detected	-3.57
SD of Detected	0.637	SD of Detected	1.764
Minimum Non-Detect	0.011	Minimum Non-Detect	-4.51
Maximum Non-Detect	0.011	Maximum Non-Detect	-4.51

UCL Statistics

Normal Distribution Test with Detected Values Only		**Lognormal Distribution Test with Detected Values Only**	
Shapiro Wilk Test Statistic	0.349	Shapiro Wilk Test Statistic	0.906
5% Shapiro Wilk Critical Value	0.881	5% Shapiro Wilk Critical Value	0.881
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.118	Mean	-4.296
SD	0.478	SD	1.536
95% DL/2 (t) UCL	0.275	95% H-Stat (DL/2) UCL	0.119
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-4.417
		SD in Log Scale	1.755
		Mean in Original Scale	0.118

SD in Original Scale	0.478
95% t UCL	0.275
95% Percentile Bootstrap UCL	0.302
95% BCA Bootstrap UCL	0.404
95% H-UCL	0.197

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.315
Theta Star	0.661
nu star	9.444
A-D Test Statistic	1.841
5% A-D Critical Value	0.827
K-S Test Statistic	0.827
5% K-S Critical Value	0.239

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	2.5
Mean	0.116
Median	0.0047
SD	0.479
k star	0.141
Theta star	0.818
Nu star	7.635
AppChi2	2.525
95% Gamma Approximate UCL (Use when n >= 40)	0.35
95% Adjusted Gamma UCL (Use when n < 40)	0.377

Note: DL/2 is not a recommended method.

Data Distribution Test with Detected Values Only

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.118
SD	0.469
SE of Mean	0.0935
95% KM (t) UCL	0.278
95% KM (z) UCL	0.272
95% KM (jackknife) UCL	0.275
95% KM (bootstrap t) UCL	1.683
95% KM (BCA) UCL	0.303
95% KM (Percentile Bootstrap) UCL	0.296
95% KM (Chebyshev) UCL	0.526
97.5% KM (Chebyshev) UCL	0.702
99% KM (Chebyshev) UCL	1.048

Potential UCLs to Use

99% KM (Chebyshev) UCL	1.048

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Benzo(g,h,i)perylene

General Statistics

Number of Valid Data	27	Number of Detected Data	13
Number of Distinct Detected Data	11	Number of Non-Detect Data	14
Number of Missing Values	1	Percent Non-Detects	51.85%

Raw Statistics **Log-transformed Statistics**

Minimum Detected	0.0038	Minimum Detected	-5.573
Maximum Detected	1.1	Maximum Detected	0.0953
Mean of Detected	0.109	Mean of Detected	-3.864
SD of Detected	0.299	SD of Detected	1.587
Minimum Non-Detect	0.011	Minimum Non-Detect	-4.51
Maximum Non-Detect	0.032	Maximum Non-Detect	-3.442

Note: Data have multiple DLs - Use of KM Method is recommended		Number treated as Non-Detect	23
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	4
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	85.19%

UCL Statistics

Normal Distribution Test with Detected Values Only		**Lognormal Distribution Test with Detected Values Only**	
Shapiro Wilk Test Statistic	0.387	Shapiro Wilk Test Statistic	0.89
5% Shapiro Wilk Critical Value	0.866	5% Shapiro Wilk Critical Value	0.866
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	
Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0558	Mean	-4.519
SD	0.21	SD	1.271
95% DL/2 (t) UCL	0.125	95% H-Stat (DL/2) UCL	0.0503
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-4.771
		SD in Log Scale	1.548
		Mean in Original Scale	0.0552
		SD in Original Scale	0.21
		95% t UCL	0.124
		95% Percentile Bootstrap UCL	0.133
		95% BCA Bootstrap UCL	0.185
		95% H-UCL	0.0768
Gamma Distribution Test with Detected Values Only		**Data Distribution Test with Detected Values Only**	
k star (bias corrected)	0.358	**Data appear Lognormal at 5% Significance Level**	
Theta Star	0.304		
nu star	9.32		
A-D Test Statistic	1.623	**Nonparametric Statistics**	
5% A-D Critical Value	0.81	Kaplan-Meier (KM) Method	
K-S Test Statistic	0.81	Mean	0.0552
5% K-S Critical Value	0.253	SD	0.206
Data not Gamma Distributed at 5% Significance Level		SE of Mean	0.0413
		95% KM (t) UCL	0.126
Assuming Gamma Distribution		95% KM (z) UCL	0.123

Gamma ROS Statistics using Extrapolated Data		95% KM (jackknife) UCL	0.124
Minimum	0.000001	95% KM (bootstrap t) UCL	0.686
Maximum	1.1	95% KM (BCA) UCL	0.137
Mean	0.053	95% KM (Percentile Bootstrap) UCL	0.135
Median	0.0038	95% KM (Chebyshev) UCL	0.235
SD	0.211	97.5% KM (Chebyshev) UCL	0.313
k star	0.145	99% KM (Chebyshev) UCL	0.466
Theta star	0.364		
Nu star	7.853	**Potential UCLs to Use**	
AppChi2	2.65	97.5% KM (Chebyshev) UCL	0.313
95% Gamma Approximate UCL (Use when n >= 40)	0.157		
95% Adjusted Gamma UCL (Use when n < 40)	0.169		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Benzo(k)fluoranthene

General Statistics

Number of Valid Data	27	Number of Detected Data	11
Number of Distinct Detected Data	11	Number of Non-Detect Data	16
Number of Missing Values	1	Percent Non-Detects	59.26%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.003	Minimum Detected	-5.809
Maximum Detected	0.87	Maximum Detected	-0.139
Mean of Detected	0.0965	Mean of Detected	-4.087
SD of Detected	0.257	SD of Detected	1.639
Minimum Non-Detect	0.011	Minimum Non-Detect	-4.51
Maximum Non-Detect	0.032	Maximum Non-Detect	-3.442

Note: Data have multiple DLs - Use of KM Method is recommended		Number treated as Non-Detect	24
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	3
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	88.89%

UCL Statistics

Normal Distribution Test with Detected Values Only		**Lognormal Distribution Test with Detected Values Only**	
Shapiro Wilk Test Statistic	0.407	Shapiro Wilk Test Statistic	0.854
5% Shapiro Wilk Critical Value	0.85	5% Shapiro Wilk Critical Value	0.85
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	

Assuming Normal Distribution	**Assuming Lognormal Distribution**

DL/2 Substitution Method	
Mean	0.0432
SD	0.166
95% DL/2 (t) UCL	0.0976

Maximum Likelihood Estimate(MLE) Method	N/A

MLE yields a negative mean

DL/2 Substitution Method	
Mean	-4.685
SD	1.158
95% H-Stat (DL/2) UCL	0.0336

Log ROS Method	
Mean in Log Scale	-4.728
SD in Log Scale	1.34
Mean in Original Scale	0.044
SD in Original Scale	0.166
95% t UCL	0.0984
95% Percentile Bootstrap UCL	0.107
95% BCA Bootstrap UCL	0.142
95% H-UCL	0.0477

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.337
Theta Star	0.287
nu star	7.403
A-D Test Statistic	1.603
5% A-D Critical Value	0.805
K-S Test Statistic	0.805
5% K-S Critical Value	0.273

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	0.87
Mean	0.0486
Median	0.0037
SD	0.167
k star	0.162
Theta star	0.3
Nu star	8.749
AppChi2	3.176
95% Gamma Approximate UCL (Use when n >= 40)	0.134
95% Adjusted Gamma UCL (Use when n < 40)	0.144

Note: DL/2 is not a recommended method.

Data Distribution Test with Detected Values Only

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.0431
SD	0.163
SE of Mean	0.0329
95% KM (t) UCL	0.0992
95% KM (z) UCL	0.0972
95% KM (jackknife) UCL	0.0976
95% KM (bootstrap t) UCL	0.6
95% KM (BCA) UCL	0.108
95% KM (Percentile Bootstrap) UCL	0.107
95% KM (Chebyshev) UCL	0.186
97.5% KM (Chebyshev) UCL	0.248
99% KM (Chebyshev) UCL	0.37

Potential UCLs to Use

97.5% KM (Chebyshev) UCL	0.248

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Chrysene

General Statistics

Number of Valid Data	27	Number of Detected Data	11
Number of Distinct Detected Data	10	Number of Non-Detect Data	16
Number of Missing Values	1	Percent Non-Detects	59.26%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0027	Minimum Detected	-5.915
Maximum Detected	2.4	Maximum Detected	0.875
Mean of Detected	0.256	Mean of Detected	-3.495
SD of Detected	0.713	SD of Detected	1.9
Minimum Non-Detect	0.011	Minimum Non-Detect	-4.51
Maximum Non-Detect	0.032	Maximum Non-Detect	-3.442

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	23
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	4
Observations < Largest ND are treated as NDs	Single DL Non-Detect Percentage	85.19%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.399	Shapiro Wilk Test Statistic	0.903
5% Shapiro Wilk Critical Value	0.85	5% Shapiro Wilk Critical Value	0.85
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.108	Mean	-4.444
SD	0.459	SD	1.444
95% DL/2 (t) UCL	0.259	95% H-Stat (DL/2) UCL	0.0813
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-5.179
		SD in Log Scale	2.085
		Mean in Original Scale	0.106
		SD in Original Scale	0.46
		95% t UCL	0.257
		95% Percentile Bootstrap UCL	0.281
		95% BCA Bootstrap UCL	0.381
		95% H-UCL	0.273

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.293	**Data appear Lognormal at 5% Significance Level**
Theta Star	0.871	

nu star	6.456
A-D Test Statistic	1.469
5% A-D Critical Value	0.816
K-S Test Statistic	0.816
5% K-S Critical Value	0.275

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	2.4
Mean	0.104
Median	0.000001
SD	0.46
k star	0.122
Theta star	0.855
Nu star	6.578
AppChi2	1.942
95% Gamma Approximate UCL (Use when n >= 40)	0.353
95% Adjusted Gamma UCL (Use when n < 40)	0.384

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.107
SD	0.451
SE of Mean	0.0911
95% KM (t) UCL	0.262
95% KM (z) UCL	0.256
95% KM (jackknife) UCL	0.258
95% KM (bootstrap t) UCL	2.047
95% KM (BCA) UCL	0.287
95% KM (Percentile Bootstrap) UCL	0.282
95% KM (Chebyshev) UCL	0.504
97.5% KM (Chebyshev) UCL	0.675
99% KM (Chebyshev) UCL	1.013

Potential UCLs to Use

97.5% KM (Chebyshev) UCL	0.675

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Dibenz(a,h)anthracene

General Statistics

Number of Valid Data	27	Number of Detected Data	7
Number of Distinct Detected Data	6	Number of Non-Detect Data	20
Number of Missing Values	1	Percent Non-Detects	74.07%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0027	Minimum Detected	-5.915
Maximum Detected	0.25	Maximum Detected	-1.386
Mean of Detected	0.0513	Mean of Detected	-3.898
SD of Detected	0.0884	SD of Detected	1.418
Minimum Non-Detect	0.011	Minimum Non-Detect	-4.51
Maximum Non-Detect	0.032	Maximum Non-Detect	-3.442

Note: Data have multiple DLs - Use of KM Method is recommended	Number treated as Non-Detect	24
For all methods (except KM, DL/2, and ROS Methods),	Number treated as Detected	3

Observations < Largest ND are treated as NDs | Single DL Non-Detect Percentage 88.89%

Warning: There are only 7 Detected Values in this data

Note: It should be noted that even though bootstrap may be performed on this data set

the resulting calculations may not be reliable enough to draw conclusions

It is recommended to have 10-15 or more distinct observations for accurate and meaningful results.

UCL Statistics

Normal Distribution Test with Detected Values Only

Shapiro Wilk Test Statistic	0.578
5% Shapiro Wilk Critical Value	0.803

Data not Normal at 5% Significance Level

Lognormal Distribution Test with Detected Values Only

Shapiro Wilk Test Statistic	0.961
5% Shapiro Wilk Critical Value	0.803

Data appear Lognormal at 5% Significance Level

Assuming Normal Distribution

DL/2 Substitution Method	
Mean	0.0185
SD	0.0469
95% DL/2 (t) UCL	0.0339
Maximum Likelihood Estimate(MLE) Method	N/A

MLE yields a negative mean

Assuming Lognormal Distribution

DL/2 Substitution Method	
Mean	-4.736
SD	0.904
95% H-Stat (DL/2) UCL	0.0202
Log ROS Method	
Mean in Log Scale	-5.204
SD in Log Scale	1.305
Mean in Original Scale	0.0169
SD in Original Scale	0.0474
95% t UCL	0.0325
95% Percentile Bootstrap UCL	0.0342
95% BCA Bootstrap UCL	0.0505
95% H-UCL	0.0273

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.471
Theta Star	0.109
nu star	6.591
A-D Test Statistic	0.575
5% A-D Critical Value	0.742
K-S Test Statistic	0.742
5% K-S Critical Value	0.324

Data appear Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001

Data Distribution Test with Detected Values Only

Data appear Gamma Distributed at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.0171
SD	0.0464
SE of Mean	0.00973
95% KM (t) UCL	0.0337
95% KM (z) UCL	0.0331
95% KM (jackknife) UCL	0.0332
95% KM (bootstrap t) UCL	0.0832

Maximum	0.25	95% KM (BCA) UCL	0.046
Mean	0.0178	95% KM (Percentile Bootstrap) UCL	0.0371
Median	0.000001	95% KM (Chebyshev) UCL	0.0596
SD	0.0481	97.5% KM (Chebyshev) UCL	0.0779
k star	0.16	99% KM (Chebyshev) UCL	0.114
Theta star	0.112		
Nu star	8.617	**Potential UCLs to Use**	
AppChi2	3.098	95% KM (t) UCL	0.0337
95% Gamma Approximate UCL (Use when n >= 40)	0.0496		
95% Adjusted Gamma UCL (Use when n < 40)	0.0532		

Note: DL/2 is not a recommended method.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Indeno(1,2,3-cd)pyrene

General Statistics

Number of Valid Data	27	Number of Detected Data	12
Number of Distinct Detected Data	11	Number of Non-Detect Data	15
Number of Missing Values	1	Percent Non-Detects	55.56%

Raw Statistics		**Log-transformed Statistics**	
Minimum Detected	0.0031	Minimum Detected	-5.776
Maximum Detected	1	Maximum Detected	0
Mean of Detected	0.107	Mean of Detected	-3.784
SD of Detected	0.282	SD of Detected	1.551
Minimum Non-Detect	0.011	Minimum Non-Detect	-4.51
Maximum Non-Detect	0.032	Maximum Non-Detect	-3.442

Note: Data have multiple DLs - Use of KM Method is recommended		Number treated as Non-Detect	23
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	4
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	85.19%

UCL Statistics

Normal Distribution Test with Detected Values Only		**Lognormal Distribution Test with Detected Values Only**	
Shapiro Wilk Test Statistic	0.401	Shapiro Wilk Test Statistic	0.91
5% Shapiro Wilk Critical Value	0.859	5% Shapiro Wilk Critical Value	0.859
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	

Assuming Normal Distribution		**Assuming Lognormal Distribution**	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.0513	Mean	-4.509

SD	0.191
95% DL/2 (t) UCL	0.114

Maximum Likelihood Estimate(MLE) Method	N/A

MLE yields a negative mean

SD	1.227
95% H-Stat (DL/2) UCL	0.0462

Log ROS Method	
Mean in Log Scale	-4.684
SD in Log Scale	1.454
Mean in Original Scale	0.051
SD in Original Scale	0.191
95% t UCL	0.114
95% Percentile Bootstrap UCL	0.124
95% BCA Bootstrap UCL	0.165
95% H-UCL	0.0657

Gamma Distribution Test with Detected Values Only

k star (bias corrected)	0.371
Theta Star	0.289
nu star	8.908
A-D Test Statistic	1.482
5% A-D Critical Value	0.8
K-S Test Statistic	0.8
5% K-S Critical Value	0.261

Data not Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	1
Mean	0.0492
Median	0.0031
SD	0.191
k star	0.148
Theta star	0.334
Nu star	7.969
AppChi2	2.717
95% Gamma Approximate UCL (Use when n >= 40)	0.144
95% Adjusted Gamma UCL (Use when n < 40)	0.155

Note: DL/2 is not a recommended method.

Data Distribution Test with Detected Values Only

Data appear Lognormal at 5% Significance Level

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.0513
SD	0.187
SE of Mean	0.0376
95% KM (t) UCL	0.115
95% KM (z) UCL	0.113
95% KM (jackknife) UCL	0.114
95% KM (bootstrap t) UCL	0.666
95% KM (BCA) UCL	0.126
95% KM (Percentile Bootstrap) UCL	0.125
95% KM (Chebyshev) UCL	0.215
97.5% KM (Chebyshev) UCL	0.286
99% KM (Chebyshev) UCL	0.425

Potential UCLs to Use

97.5% KM (Chebyshev) UCL	0.286

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Pyrene

General Statistics

Number of Valid Data	26	Number of Detected Data	12
Number of Distinct Detected Data	12	Number of Non-Detect Data	14
Number of Missing Values	2	Percent Non-Detects	53.85%

Raw Statistics		Log-transformed Statistics	
Minimum Detected	0.0036	Minimum Detected	-5.627
Maximum Detected	0.3	Maximum Detected	-1.204
Mean of Detected	0.066	Mean of Detected	-3.661
SD of Detected	0.0958	SD of Detected	1.489
Minimum Non-Detect	0.011	Minimum Non-Detect	-4.51
Maximum Non-Detect	0.032	Maximum Non-Detect	-3.442

Note: Data have multiple DLs - Use of KM Method is recommended		Number treated as Non-Detect	21
For all methods (except KM, DL/2, and ROS Methods),		Number treated as Detected	5
Observations < Largest ND are treated as NDs		Single DL Non-Detect Percentage	80.77%

UCL Statistics

Normal Distribution Test with Detected Values Only		Lognormal Distribution Test with Detected Values Only	
Shapiro Wilk Test Statistic	0.683	Shapiro Wilk Test Statistic	0.933
5% Shapiro Wilk Critical Value	0.859	5% Shapiro Wilk Critical Value	0.859
Data not Normal at 5% Significance Level		**Data appear Lognormal at 5% Significance Level**	

Assuming Normal Distribution		Assuming Lognormal Distribution	
DL/2 Substitution Method		DL/2 Substitution Method	
Mean	0.034	Mean	-4.425
SD	0.0704	SD	1.245
95% DL/2 (t) UCL	0.0576	95% H-Stat (DL/2) UCL	0.0527
Maximum Likelihood Estimate(MLE) Method	N/A	Log ROS Method	
MLE yields a negative mean		Mean in Log Scale	-4.564
		SD in Log Scale	1.458
		Mean in Original Scale	0.034
		SD in Original Scale	0.0705
		95% t UCL	0.0576
		95% Percentile Bootstrap UCL	0.0582
		95% BCA Bootstrap UCL	0.0678
		95% H-UCL	0.0756

Gamma Distribution Test with Detected Values Only		Data Distribution Test with Detected Values Only
k star (bias corrected)	0.541	**Data appear Gamma Distributed at 5% Significance Level**
Theta Star	0.122	
nu star	12.99	

A-D Test Statistic	0.565
5% A-D Critical Value	0.774
K-S Test Statistic	0.774
5% K-S Critical Value	0.256

Data appear Gamma Distributed at 5% Significance Level

Assuming Gamma Distribution

Gamma ROS Statistics using Extrapolated Data	
Minimum	0.000001
Maximum	0.3
Mean	0.0338
Median	0.00435
SD	0.0711
k star	0.182
Theta star	0.186
Nu star	9.44
AppChi2	3.595
95% Gamma Approximate UCL (Use when n >= 40)	0.0888
95% Adjusted Gamma UCL (Use when n < 40)	0.095

Note: DL/2 is not a recommended method.

Nonparametric Statistics

Kaplan-Meier (KM) Method	
Mean	0.0334
SD	0.0693
SE of Mean	0.0142
95% KM (t) UCL	0.0577
95% KM (z) UCL	0.0568
95% KM (jackknife) UCL	0.0571
95% KM (bootstrap t) UCL	0.105
95% KM (BCA) UCL	0.0598
95% KM (Percentile Bootstrap) UCL	0.0574
95% KM (Chebyshev) UCL	0.0953
97.5% KM (Chebyshev) UCL	0.122
99% KM (Chebyshev) UCL	0.175

Potential UCLs to Use

95% KM (t) UCL	0.0577

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
For additional insight, the user may want to consult a statistician.

Included separately on enclosed CD.

April 2011 Site Visit Notes

Photographic Log – Site Visit

Aerial Photograph, April 1991

POL Yard Historical Photographic Log

1995 USGS Data Submission, Volumes 1 and 2

Former Gas Station Site (ST-C502)

Base Support/Operations Generator Former UST Site (ST-C503)

Hospital Abandoned UST Site (ST-C504)

Flightline Generator USTs Site (ST-C505)

Waste Oil Storage Facility 244 and Leach Field Site (TS/AS-C129)