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ENVIRONMENTAL

Ms. Algeana Stevenson
Mr. Wayne Hinson
Hunter Army Airfield
106 MacArthur Circle
Building 615
Savannah, Georgia 31419

Subject:
Final Revised Corrective Action Plan – Part B with 2008 Annual Monitoring Report, Site HAA-13, Former Pumphouse #1 Release #2, Former Building 8060, Facility ID #9-025085*2, Hunter Army Airfield, Savannah, Georgia.

Date:
July 9, 2009

Contact:
Charles A. Bertz, PE

Extension:
187

Email:
cbertz@arcadis-us.com

Our ref:
GP08HAFS.H13A

Dear Ms. Stevenson and Mr Hinson:

ARCADIS is pleased to submit four (4) hard copies and two (2) electronic copies of the Final Revised Corrective Action Plan – Part B with 2008 Annual Monitoring Report for HAA-13 (Pumphouse#1 Release #2) at Hunter Army Airfield, Savannah, Georgia. This final corrective action plan incorporates the changes requested in your comments dated June 26, 2009. A table that lists the comment and the ARCADIS response is included with each copy.

Please provide the one (1) hard copy of this document with original laboratory data to Mr. William Logan of the Georgia Department of Natural Resources, Environmental Protection Division.

If you have any questions or would like to discuss this plan further, please contact us at your convenience at (919) 854-1282.

Sincerely,
ARCADIS U.S., Inc.

Charles A. Bertz, PE
Senior Project Manager

Copies:
Ms. Ana Vergara, USACE (2 hard copies, 1 electronic copy)
files

COMMENTS PROJECT REVIEW	Date: June 26, 2009	Page 1 of 1
To: Chuck Bertz	**From:** Environmental & Natural Resource Division (ENRD) (Reviewer): Algeana Stevenson	
Project: Draft Revised Corrective Action Plan-Part B with 2008 Annual Report Pumphouse 1 Release 2		
Type of Action: (Check Appropriate Boxes)	[X] Draft [ ] Final [ ] Other	

ITEM NUMBER	REFERENCE DRAWING OR PAGE NUMBER	COMMENT	RESPONSE
1	Page 2-3, 2nd & 3rd Paragraph	The monitoring event performed in January 2008 should be denoted as a semi-annual event versus annual. In the second paragraph the event scheduled for January 2009 should also be denoted as semi- and not annual.	Text has been changed accordingly.
2	Page 2-9, Section 2.2.3, 1st Paragraph, last sentence	On page 2-9 is states that the absorbent socks were removed and replaced from January 2002 through March 2005. And on page 2-10 1st paragraph it's stated that absorbent socks were removed and replaced June 2004 to March 2005. For Pumphouse 1 Release 1 absorbent socks were place in wells starting February 2000. Pumphouse 1 Release 2 absorbent socks were replaced November 2001 through May 2005. Please verify timelines.	Text has been corrected to state that absorbent socks were utilized from November 2001 through May 2005.
3	Page 2-11, 1st Paragraph, 3rd Sentence	The benzene result of 357 ug/L also exceeded the ACL of 285 ug/L.	Text changed to note value exceeded ACL.
4	Page 3-15, Section 3.4.4	Note: Previously we've sampled Pumphouse 1 Release 2 on a semi-annual basis. Is this a proposal to change to Annual sampling. Please note that the CAP referenced Pumphouse 1 Release 1.	The text was changed to state that semiannual sampling will be conducted in accordance with currently approved schedule.
5	Note	Any sampling conducted after February 2009 should utilize the benzene IWQS of 51 ug/L.	Noted.

IMA

3d Inf Div (Mech)

U.S. Army Environmental Command

And

Fort Stewart Directorate of Public Works Under Contract Number W91ZLK-05-D-0015 D.O. 0003

Final Revised Corrective Action Plan – Part B with 2008 Annual Report

Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Savannah, Georgia
Facility ID No. 9-025085*2

July 9, 2009

ARCADIS
Infrastructure, environment, buildings

ARCADIS

C. Scott Bostian, P.E.
Senior Engineer

Charles A. Bertz, PE
Senior Project Manager

Final Revised Corrective Action Plan – Part B with 2008 Annual Report

Former Pumphouse #1
(Release #2)
Former Building 8060
Facility ID No. 9-025085*2
Hunter Army Air Field

Prepared for:
U.S. Army Environmental Command

Prepared by:
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Our Ref.:
GP08HAFS.H13A.EH1R2

Date:
July 9, 2009

Acronyms iv

1. Corrective Action Plan Certification – Part B 1-1

2. Site Investigation Report 2-1

2.1 Regional, Local, and Site Hydrogeology 2-3

2.1.1 Groundwater Usage 2-3

2.1.2 Aquifer Description 2-3

2.1.3 Surface Water 2-4

2.1.4 Site Stratigraphy 2-5

2.1.5 Referenced or Documented Calculations 2-5

2.1.6 Direction of Groundwater Flow 2-5

2.2 Horizontal and Vertical Extent of Contamination 2-6

2.2.1 Delineation of Soil Contamination 2-6

2.2.2 Delineation of Groundwater Contamination 2-7

2.2.3 Delineation of Free Product 2-9

2.2.4 Delineation of Surface Water and Sediment Contamination 2-10

3. Remedial Action Plan 3-1

3.1 Corrective Action Completed or in Progress 3-1

3.1.1 Recovery/Removal of Free Product 3-1

3.1.2 Remediation/Treatment of Contaminated Backfill Material and Native Soil 3-1

3.2 Objectives of Corrective Action 3-1

3.2.1 Remove Free Product That Exceeds One-Eighth Inch at the Former Tank Pit/Fuel Pit 1C Area (Release #2) 3-1

3.2.2 Remediate Groundwater Contamination at the Former Tank Pit/Fuel Pit 1C Area (Release #2) 3-2

3.2.3 Remediate Soil Contamination at the Former Tank Pit/Fuel Pit 1C (Release #2) 3-2

3.2.4 Provide Risk-Based Corrective Action 3-3

3.2.5 Conclusions and Recommendations 3-3

3.3 Design and Operation of Corrective Action 3-4

3.3.1 Basis for Selection 3-4

3.3.1.1 Sodium Persulfate 3-4

3.3.1.2 Calcium Peroxide 3-5

3.3.2 Pre-Design Field Data Collection 3-6

3.3.3 Remediation Design 3-10

3.3.3.1 Sodium Persulfate 3-10

3.3.3.2 Calcium Peroxide 3-11

3.3.3.3 Permanent Groundwater Monitor Wells 3-11

3.4 Implementation 3-12

3.4.1 Milestone Schedule 3-13

3.4.2 Progress Reporting 3-13

3.4.3 Inspection Schedule and Preventative Maintenance Program 3-14

3.4.4 Periodic Monitoring 3-15

3.4.5 Effectiveness of Corrective Action 3-15

3.4.6 Confirmatory Soil Sampling Program 3-15

3.4.7 Stockpiled Bulk Soil Sampling 3-16

3.4.8 Monitoring Only Termination Conditions 3-16

3.4.9 Post-Completion Site Restoration Activities 3-16

4. Public Notification 4-1

5. Claim for Reimbursement 5-1

6. References 6-1

Tables

Table 2-1 Historical Groundwater Elevations

Table 2-2 Soil Analytical Results

Table 2-3 Groundwater Analytical Results

Table 2-4 Field Parameters in Monitor Wells – December 2008

Table 2-5 Summary of Enhanced Fluid Recovery

Table 2-6 Site Specific Alternate Concentration Limits and Alternate Threshold Levels

Table 2-7 Historical Groundwater Elevations

Table 3-1 Properties of Oxygen Release Compounds

Table 3-2 Proposed Analytical Parameters and Methods

Table 3-3a Monitoring Schedule for Dose Response Testing & Sodium Persulfate Pilot Test

Table 3-3b Monitoring Schedule for Dose Response Testing & Sodium Persulfate Pilot Test

Figures

Figure 2-1 Site Map of Former Pumphouse #1 (Release #2)

Figure 2-2 Groundwater Potentiometric Surface (January 2008)

Figure 2-3 Groundwater Potentiometric Surface (July 2008)

Figure 2-4 Groundwater Potentiometric Surface (December 2008)

Figure 2-5 BTEX Concentrations in DPT Soil Samples (January 2008)

Figure 2-6 BTEX Concentrations in Groundwater Monitor Wells, CPT Wells and Surface Water Samples (July 2007)

Figure 2-7 BTEX Concentrations in Groundwater Monitor Wells and DPT Groundwater Grab Samples (January 2008)

Figure 2-8 BTEX Concentrations in Groundwater Monitor Wells (July 2008)

Figure 2-9 BTEX Concentrations in Groundwater Monitor Wells and Surface Water Samples (December 2008)

Figure 2-10 Benzene Concentrations versus Time

Figure 2-11 Monitor Well P1-MW2, Free Product Thickness versus Groundwater Elevation

Figure 2-12 Monitor Well P1-MW3, Free Product Thickness versus Groundwater Elevation

Figure 3-1 Remediation Areas with Existing Wells Shown

Figure 3-2a Remediation Area "A", Former Fuel Pit 1C and Defueling Tank

Figure 3-2b Remediation Area "B", Former Building 8060 Tank Pits

Figure 3-2c Remediation Area "C", Potential Surface Water Impacts

Figure 3-3a Remedial Concept for Area "A", Former Fuel Pit 1C and Defueling Tank

Figure 3-3b Remedial Concept for Area "B", Former Building 8060 Tank Pits

Figure 3-3c Remedial Concept for Area "C", Potential Surface Water Impacts

Figure 3-4 Typical ISCO Well Construction, Unconfined Aquifer, Shallow Impacts

Figure 3-5 Schedule

Appendices

A Supplemental Investigation Lab Data – January 2008

B Semiannual Monitoring Lab Data – July 2008

C Annual Monitoring Lab Data – December 2008

D Site Ranking Form

E Pilot Test UIC Form

F ARCADIS Remediation Procedure ARC RSE-002: In Situ Chemical Oxidation

Acronyms

ACL	Alternate Concentration Limit
ATL	Alternate Threshold Level
BGS	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, And Xylenes
CAP	Corrective Action Plan
cm/s	Centimeter per second
COPC	Chemical of Potential Concern
CPT	Cone Penetrometer technology
DAACG	Departure/Arrival Air Control Group
DAF	Dilution Attenuation Factor
DPT	Direct Push Technology
EFR	Enhanced Fluid Recovery
E_h	Electrode Potential
EPA	Environmental Protection Agency
ft	feet
ft/min	feet per minute
F&T	Fate and Transport
GA EPD	Georgia Environmental Protection Division
gpm	Gallons per minute
GUST	Georgia Underground Storage Tank
g/L	grams per liter
h	Height
HAAF	Hunter Army Airfield
ISCO	In-situ Chemical Oxidation
IWQS	In-Stream Water Quality Standard
Lbs	pounds
LIF	Laser Induced Fluorescence
mg/kg	milligram per kilogram
mg/L	milligram per Liter
µg/L	microgram per Liter
MPE	Multiphase Extraction
n_m	Mobile Porosity
NAPL	Non-aqueous phase liquid

Acronyms (continued)

NTU	Nephelometric Turbidity Unit
ORC	Oxygen Releasing Compound
PAH	Polyaromatic Hydrocarbon
PID	Photo Ionization Detector
PVC	Polyvinyl Chloride
QAPP	Quality Assurance Project Plan
ROI	Radius of Injection
SAIC	Science Applications International Corporation
SOD	Soil Oxidant Demand
STL	Soil Threshold Level
UIC	Underground Injection Control
USACE	United States Army Corps of Engineers
UST	Underground Storage Tank
USTMP	Underground Storage Tank Management Program
V	Volume
VE	Vacuum Extraction

CORRECTIVE ACTION PLAN-PART B

Facility Name:	Former Pumphouse #1 (Release #2)		Street Address:	Former Building 8060, near Taxiway 3	
Facility ID:	9-025085*2	City:	Hunter Army Airfield	County:	Chatham	Zip Code:	31409
Latitude:	32° 00′ 54″	Longitude:	81° 08′ 26″		

Submitted by UST Owner/Operator:		Prepared by Consultant/Contractor:	
Name:	Tressa Rutland/ Environmental Branch	Name:	Charles Bertz
Company:	U. S. Army/HQ 3d, Inf. Div. (Mech)	Company:	ARCADIS
Address:	DPW ENRD ENV. Br. (Fry)	Address:	801 Corporate Center Dr.
	1550 Frank Cochran Drive, Bldg. 1137		Suite 300
City:	Fort Stewart State: GA	City:	Raleigh State: NC
Zip Code:	31314-4927	Zip Code:	27607
Telephone:	(912) 767-2010	Telephone:	(919) 854-1282

I. PLAN CERTIFICATION:

A. UST OWNER/OPERATOR

I hereby certify that the information contained in this plan and in all the attachments is true, accurate, and the plan satisfies all criteria and requirements of rule 391-3-15-09 of the Georgia Rules for Underground Storage tank Management.

Name: Tressa Rutland

Signature:_____ Date:_____

B. REGISTERED PROFESSIONAL ENGINEER OR PROFESSIONAL GEOLOGIST CERTIFICATION

I hereby certify that I have directed and supervised the fieldwork and preparation of this plan in accordance with State Rules and Regulations. As a registered professional geologist and/or professional engineer, I certify that I am a qualified groundwater professional, as defined by the Georgia State Board of Professional Geologists. All of the information and laboratory data in this plan and in all of the attachments are true, accurate, complete, and in accordance with applicable State Rules and Regulations.

Name: Scott Bostian, PE

Signature: Scott Bostian

Date: 7/9/09

GEORGIA REGISTERED PE026133 PROFESSIONAL ENGINEER LOUIS SCOTT BOSTIAN 7/9/09

Check all boxes that apply. Attach supporting documentation, i.e. narrative, figures, tables, maps, boring/well logs, etc., for all items checked. Supporting documentation should be three-hole punched and prepared in conformity with the guidance document "Underground Storage Tank (UST) Release: Corrective Action Plan-Part B (CAP-B) Content", GUST 7B.

II. SITE INVESTIGATION REPORT

[X] **Not Applicable** **The extent of contamination, and the local & site hydrogeology requirements have been fulfilled under the CAP Part A, therefore additional SIR reporting is not necessary.**

[ ] **Extent of Contamination:**

[ ] Soil [ ] Groundwater [ ] Free Product [ ] Surface water

[ ] **Local and Site Hydrogeology:**

[ ] Documentation of Local Groundwater Conditions

[ ] Stratigraphic Boring Logs

[ ] Stratigraphic Cross Sections

[ ] Referenced or Documented Calculations of Relevant Aquifer Parameters

[ ] Direction of Groundwater Flow

[ ] Table of Monitoring Well Data

[ ] Potentiometric Map

[ ] Flow Net Superimposed on a Base Map

III. REMEDIAL ACTION PLAN

A. Corrective Action Completed or In-Progress:

[ ] Not Applicable

[X] Recovery/Removal of Free Product (Non-Aqueous Phase Hydrocarbons)

[ ] Remediation/Treatment of Contaminated Soils

[ ] Other (specify)

_____

_____

B. Objectives of Corrective Action:

[ ] No Further Action

[X] Remove Free Product That Exceeds One-Eighth Inch

[ ] Remediate Groundwater Contamination That Exceeds:

[ ] Maximum Contaminant Levels (MCLs)

OR

[ ] In-stream Water Quality Standards

B. Objectives of Corrective Action (CONTINUED):

[ ] Remediate Soil Contamination That Exceeds:

[ ] Threshold Values Listed In Table A

OR

☐ Threshold Values Listed In Table B

OR

☐ Alternate Threshold Levels (ATLs) (Reference CAP A App. I)

☒ Provide Risk-Based Corrective Action (Reference CAP B App. I):

☒ Remediate Soil and/or Groundwater Contamination That Exceeds Alternate Concentration Limits (ACLs) and Monitor Residual Contaminants

OR

☐ Monitor Soil and/or Groundwater Contamination That Exceeds Levels In Rule -- 391-3-15-.09(3).

C. **Design and Operation of Corrective Action Systems:**

☒Soil ☒Groundwater ☒Free Product ☐Surface water ☐Not Applicable

D. **Implementation (MUST INCLUDE THE FOLLOWING):**

NOTE: If No Further Action is proposed and none of the following apply, a brief explanation must be provided with the signed Certificate of Completion.

- Milestone schedule for proposed site activities

- Inspection and preventive maintenance schedule for all specialized remediation equipment

AND / OR

Monitoring/sampling and reporting plan for measuring interim progress and project completion

- Plan to decommission equipment/wells and close site

IV. PUBLIC NOTICE:

☐ Not Applicable **The Corrective Action Objectives submitted and approved under the CAP-Part A have not changed.**

☐ Certified Letters to Adjacent, Potentially Affected Property Owners and Local Officials

☒ Legal Notice in Newspaper, as approved by EPD

☐ Other EPD-approved Method (specify) _____

V. CLAIM FOR REIMBURSEMENT (For GUST Trust Fund sites only)

☒ Not Applicable (specify) _____

_____

☐ GUST Trust Fund Application - (attach if applicable)

☐ Cost Proposal:

☐ A Total of All Costs Incurred To Date (MUST INCLUDE THE FOLLOWING):

- Invoices and Proofs-of-Payment For All Costs Incurred To Date
- Invoices itemized on the GUST-4D
- All Non-Eligible Costs Clearly Identified as such
- Incurred Costs Itemized per GUST-92 form or EPD provided form/specifications

☐ A Total of Estimated Costs To Complete Corrective Action

- Estimated Costs Itemized per GUST-92 form or EPD provided form or specifications

☐ Total Project Costs

☐ Proposed Schedule For Reimbursement

☐ Lump Sum Payment Upon Completion Of Corrective Action

OR

☐ Interim Payments With Final Payment Upon Completion

OR

☐ EPD Established Payment Schedule

2. Site Investigation Report

Former Underground Storage Tanks (USTs) 30 through 39 and 50 at former Pumphouse #1, Facility ID #9-025085 were located near former Building 8060 at Hunter Army Airfield (HAAF), Savannah, Georgia (Figure 2-1). Former Pumphouse #1 was an aviation-gas fuel island located along the east-west taxiway of HAAF that was used from about 1953 until the early 1970s. It consisted of ten 25,000-gallon USTs and a 50,000-gallon underground defueling tank. The pumphouse was inactive from the 1970s to 1995, when eight of the 25,000-gal USTs were removed. The 50,000-gallon defueling tank and two of the 25,000-gallon tanks remained in-place, partially under the pumphouse structure. In 1998, the pumphouse structure was removed, along with the two remaining 25,000-gallon USTs. The 50,000-gallon defueling tank was closed in-place. The piping from the boundary of the pumphouse facility to the bulk fuel farm was also drained, pigged, and grouted in-place.

Various closure activities and Corrective Action Plan (CAP)–Part A and CAP–Part B investigations were performed at the former Pumphouse #1 site between 1995 and 2000. The former Pumphouse #1 investigations covered an area south of the active taxiway. CAP–Part A and CAP–Part B investigations were conducted at the Departure/Arrival Air Control Group (DAACG) facility in 1995 and 1996, respectively. These investigations covered the active tarmac north of the active taxiway. Review of the analytical data from all of the investigations indicated that it was necessary to combine the DAACG facility data and the former Pumphouse #1 data to document the nature and extent of contamination. As a result, the former Pumphouse #1 CAP–Part B Report (SAIC 2000) combined the results of all the investigations into a single report, which was submitted to the Georgia Environmental Protection Division (GA EPD) in August 2000 and subsequently approved.

As indicated in the former Pumphouse #1 CAP–Part B Report, two distinct and separate plumes are located within the vicinity of the former Pumphouse #1 site. Release #1 is an area of soil and groundwater contamination located near the DAACG facility that is in the vicinity of former Fuel Pits 1A and 1B, located approximately 900 feet west of former Building 8060 (i.e., Pumphouse #1). Release #2 is an area of soil and groundwater contamination located near the former Pumphouse #1 facility and former Fuel Pits 1C and 1D, located approximately 200 feet north of the former Tank Pits. The CAP-Part B stated that based on proximity, a release from Former Fuel Pit 1C was apparently responsible for the contamination associated with Release #2. During the CAP–Part B investigation activities, the horizontal and vertical extent of petroleum-related contamination in soil and groundwater was determined for both areas of contamination. The corrective actions

at Release #1 and Release #2 are being addressed separately.

For the Former Pumphouse #1 tank pit area (Release #2), the CAP–Part B Report recommended semiannual monitoring of eight wells (i.e., D-MW5, D-MW6, P1-MW1, P1-MW2, P1-MW18, P1-MW19, P1-MW22, and P1-MW23) for benzene, toluene, ethylbenzene, and xylenes (BTEX). The CAP–Part B Report was approved by GA EPD in December 2000. Per the CAP-Part B, semiannual monitoring and annual reporting began in September 2001 and has continued to date. The termination goal for this monitoring is demonstrating benzene concentrations in groundwater are below the alternate concentration limit (ACL) of 285 microgram per liter (µg/L) for two consecutive sampling events. The CAP-Part B also stated that once the benzene ACL has been achieved at the Former Pumphouse #1 tank pit area, three confirmatory soil samples would be collected to confirm that soil meets the alternate threshold levels (ATLs) for benzene and chrysene of 9.3 milligram per kilogram (mg/kg) and 2.1 mg/kg, respectively.

An additional investigation was conducted in 2003 to further delineate the horizontal and vertical extent of the free product in the subsurface at Release #1 and Release #2 using cone-penetrometer-technology (CPT) equipment with laser induced fluorescence (LIF) detection. The results of the investigation were presented in the Data Summary Report for the 2003 Free Product CPT Investigation, which was also included as an appendix in the Third Annual Monitoring Only Report (SAIC 2005).

The corrective actions that were described in the CAP–Part B Addendum #1 (SAIC 2001) and Addendum #2 (SAIC 2006a) were specific to Release #1 and are not discussed further.

To address free product, absorbent socks were installed, removed and replaced on a bimonthly basis from January 2002 through March 2005. Beginning in June 2005, vacuum extraction (VE) activities were initiated on approximately 50 wells located throughout the Release #1 and Release #2 areas.

In May 2006, six injection wells were installed around the Pumphouse #1 tank pit area for the injection of oxygen-releasing compound (ORC) to enhance the degradation of the BTEX compounds. Quarterly ORC injection through the six injection wells plus six existing monitor wells and performance monitoring was conducted from July 2006 through April 2007. The results were reported in the Fifth Annual Monitoring Only Report (SAIC 2007). The report stated that site contaminant levels were not significantly reduced through the injection of ORC over the 1-year period and that there were apparently two areas that are serving as potential sources

at the site: the former Pumphouse #1 tank pit area and the area under the taxiway near the fuel pits.

Semiannual monitoring was performed in January 2008 and additional soil and groundwater samples were collected with Direct Push Technology (DPT) in January 2008. The results of these activities were included in the Sixth Annual Monitoring Only Report (SAIC 2008). Also included in the Sixth Annual Report were Enhanced Fluid Recovery (EFR) results from October 2007 and January 2008.

Semiannual sampling was conducted in July 2008 and semiannual monitoring scheduled for January 2009 was performed in December 2008. The results of the monitoring activities conducted in July and December 2008 are included in this report. Results from the January 2008 semiannual monitoring and additional investigation are also presented to provide a comprehensive overview of current site conditions.

This Revised CAP–Part B Report is being submitted to the GA EPD Underground Storage Tank Management Program (USTMP) to convey investigation and monitoring data for the 2008 Annual Monitoring Only Report and to present a proposed change to the corrective action strategy for the former Tank Pit area (Release #2).

2.1 Regional, Local, and Site Hydrogeology

A discussion of the regional, local, and site hydrogeology was presented in previous CAP–Part B Reports and is summarized below.

2.1.1 Groundwater Usage

According to the *Groundwater Pollution Susceptibility Map of Georgia* (GA EPD 1992), the former Pumphouse #1 site, Facility ID #9-025085 is located within an area of average or higher groundwater pollution susceptibility. Nine water supply wells are located within the confines of the HAAF area. These wells have the potential to provide up to 3,890 gallons per minute (gpm) of water to occupants of the HAAF installation (SAIC 2000).

2.1.2 Aquifer Description

The hydrogeology in the vicinity of HAAF is mostly influenced by two aquifer systems, the Principal Artesian (Floridan) Aquifer and the surficial aquifer (Miller

1990). The Principal Artesian Aquifer is the lowermost hydrologic unit and is regionally extensive from South Carolina to Georgia, Alabama, and most of Florida. Known elsewhere as the Floridan, this aquifer, approximately 800 feet (ft) in total thickness, is composed primarily of Tertiary-age limestone, including the Bug Island Formation, the Ocala Group, and the Suwannee Limestone. Groundwater from the Floridan is used primarily for drinking water (Arora 1984).

The confining layer for the Floridan Aquifer is the phosphatic clay of the Miocene-aged Hawthorn Group. There are minor occurrences of aquifer material within the Hawthorn Group; however, they have limited utilization (Miller 1990). The surficial aquifer overlies the Hawthorn confining unit.

The surficial aquifer consists of widely varying amounts of sand and clay, ranging from 55 to 150 ft in thickness. This aquifer is primarily used for domestic lawn and agricultural irrigation. The top of the water table ranges from approximately 2 to 10 ft below ground surface (bgs) (Miller 1990). Groundwater in the surficial aquifer system is under unconfined, or water table, conditions. Locally, however, thin clay beds create confined or semi-confined conditions.

Groundwater encountered at HAAF Pump House #1 UST investigation sites is part of the surficial aquifer system. Based on the facts that all public and non-public water supply wells draw water from the Floridan Aquifer and that the Hawthorn confining unit separates the Floridan Aquifer from the surficial aquifer, it is concluded that there is no hydraulic interconnection between HAAF UST sites (and associated plumes) and water supply withdrawal points (SAIC 2000). Historic groundwater elevations are included in Table 2-1.

2.1.3 Surface Water

The water resources survey conducted during the CAP–Part B site investigation was presented in the CAP– Part B Report (SAIC 2000) and CAP–Part B Addendum #1 Report (SAIC 2002a). Surface water bodies at HAAF include Hallstrom Lake, Lamar Canal, Buckhalter Canal, Springfield Canal, Pond 29 located northwest of Buildings 336 and 232, and an unnamed pond located along the southeastern boundary of the HAAF installation. Several unnamed drainage canals and ditches exist throughout HAAF. Most of these canals drain southwest into the Little Ogeechee River, which is part of the Lower Ogeechee watershed. The remaining drainage canals located on the eastern side of the HAAF installation flow east and eventually drain into the Vernon River, which is located southeast of the HAAF installation. Surface water bodies at HAAF and adjacent areas are not used as public water supplies. The

ponds and lakes, as well as Lamar Canal, are perennial, whereas most of the drainage canals and ditches are intermittent. Most of the drainage canals are at least partially enclosed in culverts (SAIC 2000).

2.1.4 Site Stratigraphy

The lithology encountered at the site is predominantly a white, pale brown, or light gray, very fine to medium-grained sand, with variable silt and clay content. Generally, the samples with higher silt and clay content were within a few feet of the surface. Less silt and clay content was noted with depth. The boring log of deep well P1-MW40 indicates an increasing clay content from approximately 26 to 30 ft bgs, becoming a clayey, coarse-grained sand/gravel at 30 ft bgs. (SAIC 2000)

2.1.5 Referenced or Documented Calculations

The following referenced or documented calculations were performed to support the CAP-Part B Site Investigation and were included in the CAP-Part B (SAIC 2000).

Disturbed soil samples were collected from eight monitor wells for grain size analysis. In addition, undisturbed soil samples were collected from four monitor wells and a soil boring to determine selected engineering properties of the unsaturated zone at the site. The engineering properties that were measured included moisture content, porosity, specific gravity, bulk density and permeability.

Slug tests were conducted on two shallow and one deep well and evaluated using AQTESOLVE software. The calculated hydraulic conductivity values were 1.32×10^{-2} feet per minute (ft/min) (6.7×10^{-3} centimeters per second (cm/s)) and 1.75×10^{-2} ft/min (8.9×10^{-3} cm/s) in the shallow wells and 4.5×10^{-3} ft/min (2.3×10^{-3} cm/s) in the deep well. The average hydraulic conductivity based on slug test data is 1.17×10^{-2} ft/min (6.0×10^{-3} cm/s).

Aquifer testing (8-hour step test) was performed to determine the optimum pumping rate for the well. Pumping data yielded a transmissivity of 0.4035 ft^2/min assuming a saturated aquifer thickness of 60 ft. The recovery data produced a transmissivity of 0.089 ft^2/min assuming a saturated thickness of 60 ft. (SAIC 2000)

2.1.6 Direction of Groundwater Flow

Historical water level measurements (Table 2-1) were taken during monitoring events to evaluate the directional flow in groundwater. Groundwater in the vicinity of the

former Release #2 area was determined to flow generally to the south. Groundwater potentiometric surface measurements taken in January 2008, July 2008, and December 2008 are presented on Figures 2-2, 2-3, and 2-4, respectively.

2.2 Horizontal and Vertical Extent of Contamination

The horizontal and vertical extent of petroleum-related contamination in soil and groundwater was delineated by activities performed during the previous investigations at the former Pumphouse #1 site and the DAACG facility, which were documented in the CAP–Part B Report (SAIC 2000) and CAP–Part B Addendum #1 Report (SAIC 2002a). In September/October 2003, additional activities were performed with CPT equipment with fluorescence detection to delineate the horizontal and vertical extent of the free product at both Release #1 and Release #2. Subsequently, additional data has been obtained through semiannual sampling of monitor wells and a supplemental investigation using DPT that was conducted in January 2008. A summary of the results from these investigations is presented below.

2.2.1 Delineation of Soil Contamination

In the vicinity of the former Pumphouse #1 Tank Pit area (Release #2), the horizontal extent of petroleum-related contamination in soil was determined during the CAP-Part B site investigation and was discussed in detail in the CAP–Part B Report (SAIC 2000). Benzene, ethylbenzene, toluene, xylenes, benzo(b)fluoranthene and chrysene exceeded the applicable Georgia Underground Storage Tank (GUST) Soil Threshold Levels (STLs) (i.e., Table B, Column 1) and were identified as chemicals of potential concern (COPCs) for soil at Release #2. Only benzene and chrysene exceeded their respective ATLs.

The CAP-Part B Report stated that there was an area of contamination located 1 to 2 feet above the water table with the center of the source area located north of the Former Fuel Pit 1C. The samples with concentrations exceeding the ATLs were collected from the capillary fringe above the soil/water interface.

In January 2008, supplemental investigation activities were conducted to further delineate subsurface soil contamination at the site. Subsurface soil samples were collected from 35 direct-push borings at the site and analyzed for BTEX. One soil sample was collected from each boring at the depth interval with the highest photoionization detector (PID) reading. The soil samples were analyzed for BTEX using the U.S. Environmental Protection Agency (EPA) Method 8021B/8260B. The

analytical results from the soil sampling are presented in Table 2-2 and Figure 2-5.

The analytical results of the January 2008 supplemental investigation are summarized below (SAIC 2008).

- Benzene was detected in 8 of 35 soil samples at concentrations ranging from 0.0569J to 0.801 milligrams per kilogram (mg/kg). None of the sample concentrations or detection limits exceeded the ATL.
- Toluene was detected in 24 of 35 soil samples at concentrations ranging from 0.0312J to 125J mg/kg. None of the samples exceeded the ATL.
- Ethylbenzene was detected in 31 of 35 soil samples at concentrations ranging from 0.00301J to 66J mg/kg. None of the samples exceeded the ATL.
- Total xylenes were detected in 33 of 35 soil samples at concentrations ranging from 0.000687J to 370J mg/kg. None of the samples exceeded the ATL.

Subsurface soil sampling in January 2008 indicated that the benzene concentrations in soil were below the ATL of 9.3 mg/kg. Samples were not analyzed for polyaromatic hydrocarbons (PAHs), specifically chrysene. As previously noted, chrysene was detected in soil at concentrations exceeding the ATL during the CAP-Part B investigation.

2.2.2 Delineation of Groundwater Contamination

In the vicinity of the former Tank Pit area (Release #2), the vertical and horizontal extent of the plume was initially delineated in the CAP-Part B site investigations and was discussed in detail in the CAP–Part B Report (SAIC 2000). Benzene, ethylbenzene, toluene, benzo(a,h)anthracene, indeno(1,2,3-cd)pyrene and naphthalene were identified as COPCs for groundwater. Based on the results of fate & transport (F&T) modeling, ACLs were calculated for these constituents. An ACL of 285 micrograms/liter (µg/L) was proposed for benzene in groundwater and subsequently approved by GA EPD. Benzene was the only constituent in the Release #2 area to exceed its In-Stream Water Quality Standard (IWQS) and ACL during the site investigations.

During the semiannual sampling events from 2001 through 2007, benzene was the only COPC to exceed the IWQS or ACL. None of the other constituents were detected at concentrations that exceeded the respective ACL or IWQS. Benzene concentrations in monitor wells D-MW5, P1-MW2 and P1-MW19 have consistently exceeded the ACL of 285 µg/L. Concentrations in wells installed for ORC injection

exceeded the ACL in areas near former building 8060 and near former fuel pit 1C and the former UST 50 (SAIC 2007). During the eleventh semiannual sampling event in July 2007, the benzene concentrations in D-MW5R, P1-MW19 and CPT wells P1-CPT7, P1-CPT17, P1-CPT19, and P1-CPT22 exceeded the ACL of 285 µg/L (Figure 2-6). The CPT wells with benzene concentrations above the ACL are also in the areas previously identified as impacted. The July 2007 results are illustrated in Figure 2-6.

During the twelfth semiannual sampling event in January 2008, eight monitor wells in the semiannual monitoring program (i.e., D-MW5R, D-MW6R, P1-MW1, P1-MW2, P1-MW19, P1-MW-21, P1-MW22, and P1-MW23) were sampled for analysis of BTEX using EPA Method 8021B/8260B. In addition, supplemental investigation activities were conducted to delineate groundwater contamination at the site. Groundwater samples were collected from 35 direct-push borings at the site and analyzed for BTEX. Benzene was detected in 41 of 43 groundwater samples at concentrations ranging from 0.424J to 3,760 µg/L. The benzene concentrations in monitor wells D-MW5R, P1-MW2, P1-MW19, and 11 direct-push borings (P1-DB-04, P1-DB-05, P1-DB-06, P1-DB-07, P1-DB-08, P1-DB-13, P1-DB-18, P1-DB-19, P1-DB-22, P1-DB-23, and P1-DB-35) exceeded the ACL of 285 µg/L. The benzene concentrations in D-MW5R, D-MW6R, P1-MW2, P1-MW19, P1-MW23, and 16 direct-push borings exceeded the IWQS of 51 µg/L. None of the other constituents exceeded the respective ACL (SAIC 2008). The analytical results are provided in Table 2-3 and Appendix A and illustrated in Figure 2-7.

During the thirteenth semiannual sampling event in July 2008, eight monitor wells in the semiannual monitoring program (i.e., D-MW5R, D-MW6R, P1-MW1, P1-MW2, P1-MW19, P1-MW21, P1-MW22, and P1-MW23) were sampled for analysis of BTEX using EPA Method 8021B/8260B. Benzene was detected in 8 of 8 groundwater samples at concentrations ranging from 2.98 to 2,090 µg/L. The benzene concentrations in D-MW5R, P1-MW2, and P1-MW19 exceeded the ACL of 285 µg/L. The benzene concentrations in D-MW5R, P1-MW2, P1-MW19, and P1-MW23 exceeded the IWQS of 51 µg/L. None of the other constituents exceeded the respective ACL. The analytical results are provided in Table 2-3 and Appendix B and illustrated in Figure 2-8.

The fourteenth semiannual sampling event was conducted in December 2008. Eight monitor wells in the semiannual monitoring program (i.e., D-MW5R, D-MW6R, P1-MW1, P1-MW2, P1-MW19, P1-MW21, P1-MW22, and P1-MW23) were sampled for analysis of BTEX using EPA Method 8021B/8260B. All groundwater samples collected were analyzed by a certified laboratory as listed in the Site-Wide Quality Assurance

Project Plan (QAPP) (ARCADIS 2008). Field laboratory data included quality control samples and all data were reviewed by the project chemistry team. All data reported by Shealy Laboratory were evaluated in accordance with the Level II validation protocols set forth in the Site-Wide QAPP (ARCADIS 2008). Field parameters from each well that was sampled are provided in Table 2-4. The analytical results are provided in Table 2-3 and Appendix C and illustrated in Figure 2-9. Analytical results from the sampling event are summarized below.

- Benzene was detected in 6 of 8 groundwater samples at concentrations ranging from 29 to 1,700 µg/L. The concentrations in two samples exceeded the IWQS of 51 µg/L and in three samples exceeded the ACL of 285 µg/L.
- Toluene was detected in all eight groundwater samples at concentrations ranging from 1.2 to 16,000 µg/L. The concentrations did not exceed the ACL.
- Ethylbenzene was detected in all eight groundwater samples at concentrations ranging from 7.7 to 1,700 µg/L. The concentrations did not exceed the IWQS or ACL.
- Total xylenes were detected detected in all eight groundwater samples at concentrations ranging from 13 to 8,600 µg/L. There is no ACL or IWQS for total xylenes.

The benzene concentrations in the most contaminated wells over time are plotted on Figure 2-10.

2.2.3 Delineation of Free Product

Free product was identified at the former Fuel Pit 1A/DAACG area (Release #2) in September 2001. The free product was observed in wells D-MW5, P1-MW2, P1-MW3, and P1-MW22 at thicknesses ranging from 0.02 to 0.49 ft. The horizontal extent of the free product was bounded by existing wells at the site. Following the CAP–Part B investigation, the interim corrective action consisted of free product recovery in the wells via absorbent socks, which were first installed in November 2001. The absorbent socks were utilized from November 2001 through May 2005.

In September/October 2003, additional activities were performed with CPT equipment with fluorescence detection to delineate the horizontal and vertical extent of the free product at both Release #1 and Release #2. The Release #2 investigation concluded that the likely zones of nonaqueous-phase liquid (NAPL) contamination tend to occur between 6 and 13 ft bgs, which is in the vicinity of the water table and smear zone, at a thickness ranging from 1 to 5 ft. At three locations

there was NAPL detected below the water table at approximately 20 to 25 ft bgs (SAIC 2005).

Beginning in June 2005, VE activities were initiated on approximately 50 wells located throughout Release #1 and Release #2. The quantity of the water/product mixture varied from well to well. However, in general the amount of free product removed from each well was very small. In January 2006, the vacuum truck activities were modified from bimonthly to quarterly and focused on the wells with free product accumulation. As a result, only a few wells were pumped in January 2006, but for approximately 8 hr per well (SAIC 2006b). Measurements conducted during the vacuum extraction activities for Release #2 are presented in Table 2-5. Free product was not observed in any of the wells associated with Release #2 prior to or following the vacuum extraction activities in June 2005 through January 2006.

In July 2007, no measurable free product was observed at any of the wells associated with Release #2 and EFR activities were not conducted. In October 2007, free product was measured in one well in the Release #2 area. Well P1-MW2, had 0.01 ft of measurable product and EFR activities were performed on this well for 8 hours. In January 2008, free product was measured at two wells (P1-MW2 and P1-MW22, 0.01 ft each) and EFR activities were performed on each well for 8 hours. A summary of the vacuum activities for Release #2 is presented in Table 2-5. Prior to groundwater sampling activities on January 27, 2008, no free product was observed at the site. In July 2008, free product was observed in wells P1-MW2 and P1-MW3 at a thickness of 0.02 ft and 0.01 ft, respectively. In December 2008, no measurable free product was detected at any of the wells associated with Release #2.

The free product thickness recorded in Monitor Wells P1-MW2 and P1-MW3 versus groundwater elevation is plotted in Figures 2-12 and 2-13 respectively.

2.2.4 Delineation of Surface Water and Sediment Contamination

Results from the surface water and sediment samples collected during the CAP–Part B investigation were discussed in the CAP–Part B Report (SAIC 2000). Two surface water samples (P1-SWS-11 and P1-SWS-12) were collected in July 2007 from diffusion samplers installed within the saturated sediment of the drainage ditch located approximately 500 ft south of the source areas. The samples were analyzed for BTEX using EPA Method 8021B/8260B. Benzene was detected in P1-SW-11 and 12 at concentrations of 357 and 0.457J µg/L respectively. The benzene concentration in surface water sample P1-SWS-11 exceeded the IWQS of 51 µg/L

and the ACL of 285 µg/L. In the same sample, toluene was detected at 11,900 µg/L, ethylbenzene at 1,640 µg/L and total xylenes at 8,990 µg/L. The toluene concentration exceeded the IWQS. The analytical results are provided in Table 2-3.

Two surface water samples (P1-SWS-11 and P1-SWS-12) were collected in December 2008 from the drainage ditch located south of the site and analyzed for BTEX using EPA Method 8021B/8260B. Benzene was detected at concentrations of 2.4 and 24 µg/L, toluene at concentrations of 16 and 51 µg/L, ethylbenzene at concentrations of 26 and 33 µg/L and total xylenes at concentrations of 88 and 370 µg/L. All concentrations were below the IWQS. The analytical results are provided in Table 2-3 and illustrated in Figure 2-8.

3. Remedial Action Plan

3.1 Corrective Action Completed or in Progress

3.1.1 Recovery/Removal of Free Product

Free product was discovered at the Release #2 location in September 2001 and absorbent socks were used for product recovery from 2001 through May 2005. Free product was removed from various wells using EFR from June 2005 through July 2006 and April 2007 through January 2008. Prior to groundwater sampling activities on January 27, 2008, no free product was observed at the site. In July 2008 free product was observed in wells P1-MW2 and P1-MW3 at a thickness of 0.02 ft and 0.01 ft, respectively. In December 2008, no measurable free product was observed at any of the monitor wells associated with Release #2.

3.1.2 Remediation/Treatment of Contaminated Backfill Material and Native Soil

No contaminated backfill material or native soil associated with the former Tank Pit area (Release #2) has been excavated, remediated, or treated. Soil disposition during the tank removals in the late 1990s is unknown.

3.2 Objectives of Corrective Action

A primary objective of groundwater remedial activities is to decrease residual mass to a point where natural attenuation mechanisms, as opposed to active remedial measures, become the long-term remedial strategy. Remedy implementation will be optimized through pre-design activities to limit treatment to areas where it will be most effective based on the hydrogeology and nature/extent of hydrocarbon (i.e., benzene) impact. Plume impact on surface water in the canal will be mitigated to comply with the IWQS.

3.2.1 Remove Free Product That Exceeds One-Eighth Inch at the Former Tank Pit/Fuel Pit 1C Area (Release #2)

Free product will be addressed such that no well contains free product in excess of 1/8 inch in thickness. Free product in excess of 1/8 inch has been detected only sporadically in monitor wells and the maximum thickness measurement since April 2007 was 0.2 ft. Recovery results have indicated very little mobile (recoverable) mass. Liquid levels will be measured during future monitoring events to confirm the absence of free product at a thickness greater than one-eighth inch. Activities utilizing a vacuum truck will be invoked as the corrective action if free product is detected in recoverable quantities.

3.2.2 Remediate Groundwater Contamination at the Former Tank Pit/Fuel Pit 1C Area (Release #2)

The objectives of the corrective action for groundwater are to reduce the concentrations of the contaminants of concern to below ACLs approved in the CAP-Part B (SAIC 2000). Benzene has historically been the only COPC that exceeds ACL or IWQS concentrations.

A corrective action for groundwater was implemented in 2006, when an oxygen-releasing compound (PermeOx® Plus) was injected into the subsurface to promote aerobic conditions. Six wells located throughout the Release #2 area that were not part of the semiannual monitoring only program or quarterly free product removal were utilized as injection wells. These wells were D-CPT-4, D-CPT-20, D-CPT-2I, D-CPT-23, D-CPT-24, and D-CPT-25. Six additional injection wells (P1-J1 through P1-J6) were installed at the site in May 2006. The wells had 10 ft screens and were screened across the water table with the goal that approximately 7 ft of screen would be located below the water table. PermeOx® Plus was injected into the 12 wells on a quarterly basis for a period of 1 year. Performance monitoring of four wells (D-MW5, P1-MW2, P1-MW21, and P1-MW22) for BTEX was conducted prior to each quarterly injection (SAIC 2008). Subsequent reports stated that site contaminant levels were not significantly reduced through the injection of ORC and that the results indicated that there are two areas that are serving as potential sources in the Release #2 area: the former Pumphouse #1 tank pit area and the area under the taxiway near the Fuel Pits. The oxygen demand from this source mass and from natural sources was such that the oxygen delivery rate from a slow release oxygen compound was insufficient for a source area application.

Recent data indicate that dissolved benzene concentrations continue to exceed the ACL and that benzene is attenuating very slowly. The plume of impacted groundwater at the site is presented in Figures 2-6, 2-7, 2-8 and 2-9. The variation of benzene concentrations with time is presented on Figure 2-10. In addition, BTEX is impacting the surface water in the canal down gradient of the source.

3.2.3 Remediate Soil Contamination at the Former Tank Pit/Fuel Pit 1C (Release #2)

The objective of the corrective action is to reduce concentrations of soil contaminants exceeding ATLs approved in the CAP-Part B (SAIC 2000). Data from subsurface soil sampling in January 2008 indicated that the benzene concentrations in soil are below the ATL of 9.3 mg/kg. The other COPC that exceeded the ATL was chrysene. Samples taken in January 2008 were not analyzed for PAHs. After free product and groundwater goals are achieved, additional soil samples will be taken to determine

compliance with approved ATL goals for chrysene.

3.2.4 Provide Risk-Based Corrective Action

A risk-based approach was used in the CAP–Part B Report (SAIC 2000) to identify COPCs for soil and groundwater and to develop ATLs and ACLs for various constituents. The results of the risk screening for Release 2 were presented in the CAP–Part B Report (SAIC 2000). The ATLs and ACLs developed for the COPCs and subsequently approved by GA EPD in 2000 are listed in Table 2-6. Due to the proximity of Releases 1 and 2, the most conservative F&T modeling results were used for developing one set of ACLs and ATLs for both areas of contamination in the CAP-Part B (SAIC 2000). F&T modeling using the analytical AT123D model was revised in the Second and Fourth Annual Monitoring Only Reports but a change to the ACL for benzene was not proposed. The F&T modeling was revised as part of the Fifth Annual Monitoring Only Report (SAIC 2007). As part of this modeling, the plume was determined to be more complex than previously modeled and three dimensional numerical models MODFLOW and MT3DMS were used to simulate groundwater flow and benzene transport respectively. Based on the revised modeling results, the dilution attenuation factor (DAF) for benzene was calculated to be 37.5 at the drainage ditch. Since ATLs and ACLs were calculated using the most conservative DAF of the two separate plumes, the revised DAF was not used and the benzene ACL was not revised.

3.2.5 Conclusions and Recommendations

The following conclusions are based on the results discussed above:

- Recent thickness measurements indicate that very little mobile free product remains.
- Recent dissolved concentrations indicate that the groundwater impacted above ACLs includes the area around and north of former fuel pit 1C and east of former building 8060, the same areas previously identified in the CAP-Part B.
- Based on soil samples from January 2008, petroleum VOC concentrations in soil are below ATLs. Samples were not analyzed for PAHs to determine concentrations of chrysene, the other COPC previously detected above the ATL.

3.3 Design and Operation of Corrective Action

3.3.1 Basis for Selection

The two priorities for selection of a remediation strategy are: 1) rapidly mitigating impacts to canal surface water; and 2) reducing the source mass that could extend the remediation timeframe. The proposed remediation will be applied to two source areas and one area for mitigation of surface water impacts. The areas relative to the groundwater plume are illustrated in Figure 3-1. The source area associated with the Former Fuel Pit 1C and Defueling Tank is presented with more detail in Figure 3-2a. The source area associated with Former Building 8060 Tank Pits is presented in Figure 3-2b. The area where surface water impacts will be addressed is presented with more detail in Figure 3-2c.

3.3.1.1 Sodium Persulfate

Remedial options for source mitigation were limited because a portion of the source is located under the active tarmac. Also, addition of electron acceptors (oxygen, sulfate) was not considered favorable given the known source mass load and the demonstrated inadequacy of a slow release oxygen compound for source areas at this site. Biosparge, which likely would be effective in some areas of the site, was not selected because of the difficultly of implementation and ongoing operation and maintenance in the fuel pit area adjacent to and under the tarmac (Figure 3-2a). A substantial portion of the source mass is located in this area and not addressing the mass in that area would result in an extensive remediation timeframe. The proposed remedy for the source mass causing the groundwater impacts consists of the implementation of In-situ Chemical Oxidation (ISCO) to achieve the remedial objectives outlined in Section 3-2. EFR events may be performed to address the free product reduction requirement on an as-needed basis.

ISCO is a well-demonstrated remedial technique that uses a chemical oxidant to rapidly degrade aqueous-phase contaminants. Sodium persulfate is a strong oxidant with a demonstrated ability to oxidize benzene. It is relatively stable and therefore can be delivered at greater distances from the point of injection than other oxidants, such as catalyzed hydrogen peroxide. Persulfate salts dissociate in aqueous solutions to form the persulfate anion ($S_2O_8^{2-}$), which has an electrode potential (E_h) of 2.12 V. Persulfate's E_h is comparable to that of ozone (2.1 V) and is greater than that of hydrogen peroxide (1.8 V). Its low density and low affinity for soil sorption provides for density-driven distribution throughout the subsurface treatment area and therefore greater contact with the target contaminant and a greater percent utilization of the injected oxidant. Persulfate performance can be enhanced by activating the solution to

produce sulfate radicals ($\cdot SO_4^-$) and hydroxyl radicals ($\cdot OH$), both highly reactive and short-lived species (E_h of 2.6 V and 2.8 V, respectively). Activation can be accomplished via reaction with ferrous iron present in the formation, or by engineered activation methods such as the addition of a base, heat, or chelated metal. The remediation of BTEX should not require engineered activation of the persulfate. However, this option is available should it become necessary to increase the oxidation efficiency in target areas with high concentrations of benzene (or residual NAPL) that are found to be recalcitrant to the unactivated formulation.

The remedial design concept is presented below and will be preceded by the pre-design field data collection necessary to effectively design an appropriate and efficient oxidant delivery network.

3.3.1.2 Calcium Peroxide

Remedial options for mitigating the migration of benzene to the drainage canal surface water pending source remediation include intercepting the dissolved plume with oxygenated water to stimulate aerobic biodegradation. Aerobic conditions can be engineered via a biosparge curtain or via other chemical means to increase oxygen content within the water, such as the use of oxygen release compounds. Since the source mass will be aggressively addressed with persulfate and the timeframe for plume interception will be shortened in the down gradient portion of the plume adjacent to the canal, injection of chemicals that slowly release oxygen (e.g. magnesium peroxide, calcium peroxide, sodium percarbonate) is preferred over biosparge. These compounds can slowly release oxygen over an extended time making oxygen available over a longer period, preventing kinetic limitation. Given the relatively low flux of petroleum hydrocarbons and slow groundwater velocity expected in the downgradient portion of the plume approaching the canal, the residence times should be sufficient to allow for aerobic biodegradation as a barrier.

The most important physico-chemical properties of 3 possible slow release ORC's are listed in Table 3-1. The comparison shows that calcium peroxide releases the most oxygen. Furthermore, CaO_2 has a low solubility (in comparison with sodium percarbonate) thus being less reactive. This will enable it to release its oxygen more slowly over the course of several months. Sodium percarbonate releases its oxygen more rapidly because of its higher solubility resulting in a less efficient use of the released oxygen. Because of the higher oxygen content and its slow release characteristics, calcium peroxide is chosen to stimulate the biological breakdown.

Calcium peroxide (CaO_2) slowly releases oxygen when in contact with water according to the following reaction:

$$2\ CaO_2 + 2\ H_2O \rightarrow 2\ Ca(OH)_2 + O_2$$

The speed at which oxygen is released is determined by physical and chemical properties of the medium (e.g. pH and temperature). When CaO_2 is exposed to a lower pH, H_2O_2 can be generated according to the following reaction:

$$CaO_2 + 2\ H^+ \rightarrow Ca^{2+} + H_2O_2$$

H_2O_2 releases oxygen according to the following reaction:

$$2\ H_2O_2 \rightarrow 2\ H_2O + O_2$$

Directly around the injection wells, little H_2O_2 will be generated due to the higher pH generated by the presence of calcium hydroxide and peroxide. This ensures an efficient release of oxygen. As a consequence of the low solubility in water of CaO_2 (<0.1 gram per liter (g/L) @ 20 °C), an oxygen release period of more than 6 months (Solvay) is typical.

3.3.2 Pre-Design Field Data Collection

Baseline biogeochemical sampling and analysis will be conducted. The data will be primarily focused on optimizing the application of sodium persulfate but will also be applied to aid in designing the calcium peroxide barrier. A baseline biogeochemical sampling event will be conducted consisting of samples from approximately 6 wells, 2 from each source area and 2 outside the impacted area. Samples from these wells will be analyzed for the parameters listed in Table 3-2 including total and dissolved iron, manganese, carbonate alkalinity, sulfate, total organic carbon, chemical oxygen demand, nitrate, total dissolved and suspended solids. Field parameters will consist of at a minimum dissolved oxygen, pH, oxidation reduction potential, conductivity and temperature. Baseline sampling will include obtaining samples for analysis of BTEX from the 8 wells designated for semiannual sampling plus approximately 4 wells that are proximate to source areas but have not been recently sampled.

Extensive sampling has been conducted previously to evaluate the vertical and horizontal distribution of BTEX in soil and groundwater. Numerous sampling events have confirmed the distribution of groundwater impacts and the 2003 CPT investigation and 2008 DPT investigation confirmed source mass is located north of Fuel Pit 1C and east of the former Building 8060. As is typical, the majority of the source mass is located in the smear zone. However, the 2003 investigation revealed that in two areas source mass may be located at approximately 20 ft bgs (10 ft below water level).

Impacted groundwater was identified farther to the northwest during the January 2008 investigation and an additional monitor well is proposed in this area. An additional permanent monitor well is also recommended to define the northeast extent of the plume. The locations of the additional monitor wells in Area A are shown on Figure 3-3a.

Matrix demand testing is planned for selected soil and groundwater (slurry) samples to evaluate the soil oxidant demand (SOD). Naturally occurring minerals and organic molecules in addition to the contaminants of interest that may react with persulfate will determine oxidant demand. Matrix demand tests are performed on uncontaminated samples of soil and groundwater to estimate the concentration of persulfate that will be consumed by the oxidizable components of the geological matrix and groundwater during a given treatment time. The testing will be performed at ARCADIS' laboratory in Durham, North Carolina.

Because of the well documented oxidation reaction of persulfate with BTEX, treatability testing requirements will be minimal. Samples for treatability testing will be taken from contaminated areas. The initial phase of treatability testing will include an assessment of unactivated persulfate at a concentration in the probable range of 1 percent to 5 percent to examine the treatment efficiency as a function of dose concentration. Dosing with chelated iron activation, alkaline activation, or activation with hydrogen peroxide may also be performed to evaluate suitability for the site and approximate field-scale oxidant dosing schemes.

Injection wells will be installed in the injection target areas A and B located as depicted in Figures 3-3a and 3-3b in the vicinity of the former Fuel Pit 1C and former Building 8060 respectively. The initial injection in the former Fuel Pit 1C area will be through a new injection well installed between D-MW5R and P1-CPT20 as shown on Figure 3-3a. The initial injection in the area east of the former Building 8060 will be through a new well installed between P1-J3 and P1-MW2 as shown on Figure 3-3b. Injection wells will be designed with well screens that bracket the water table (generally present at 9 to 10 ft bgs) and extend approximately 5 feet into the vadose zone areas to more efficiently address the smear zone. When possible, persulfate injections will occur during high water table conditions as the most efficient means of making contact with the smear zone relative to flooding the smear zone. The depth of the screen interval will be determined by estimated location of target mass and will typically be 15 to 20 ft bgs. Surrounding MW and CPT wells will be used as observation well locations as depicted on Figures 3-3a and 3-3b. Wells located within 10 feet of the injection well will be used as dose-response wells to verify the volume of injection solution required to achieve the target radius of injection (ROI) of 10 feet. Wells outside of the 10-foot ROI will be used to monitor (1) the movement of persulfate

outside of the injection zone, (2) treatability of BTEX using persulfate, and (3) persulfate reaction kinetics and potential secondary water quality effects in the oxidation zone.

The data from the initial injection will be utilized to verify the previously estimated relationship between injection volume and delivery radius in both targeted treatment areas (i.e., where current benzene concentrations exceed 1 milligram per liter [mg/L] or previous investigations have indicated the presence of source mass). The results of the initial injections will be evaluated to ensure adequate distribution of oxidant during remediation. The refined understanding of the optimal concentration, required volumes and viable injection flow rates will then be used to optimize the methods employed for the additional applications (e.g., injection volumes, oxidant concentrations, etc.). Distribution of persulfate will be tracked through field measurements of persulfate ions and conductivity. Movement of persulfate and conductivity will be utilized to confirm groundwater flow rates and directions. This will support evaluation of reagent migration and anticipated trends in dissolved-phase concentrations downgradient of the treatment area(s).

Temporary monitor wells will be placed if needed to refine the injection target zone. Any temporary wells will be 2-inch I.D. pre-packed wells installed using DPT and screened across the water table. The need for these wells will be determined based on initial injection results and would be installed to provide the additional data density necessary to mitigate the unnecessary injection of oxidant. Conventional well installation methods (hollow stem auger, sonic, etc.) would be used if multi-purpose wells are needed.

A permit application will be submitted to the Underground Injection Control (UIC) Division of Georgia EPD to allow the initial injection for the performance evaluation phase. The permit will be obtained before the initial injection is initiated. A copy of the UIC Permit Pilot Test Notification is included in Appendix E. After the data from the initial injection are collected and evaluated, a full UIC Permit Application will be prepared as an addendum to this CAP – Part B.

The volume of solution required to achieve breakthrough at an assumed 10-foot ROI dose-response well is estimated using the following equation:

$$V_{inj} = ROI^2 \times \pi \times h \times n_m \times \left(\frac{7.481\ gal}{ft^3} \right)$$

where:

V_{inj} = volume of injection (gal)

ROI = radius of injection (e.g., 10 feet)

h = height of injected fluid column (15 feet)

n_m = mobile porosity

The volume of solution required to achieve breakthrough at the 10-foot ROI depends on the mobile porosity of the formation. The following table shows the relationship between mobile porosity, injection volume, and amount of sodium persulfate and water required to mix injection solution containing 5 percent persulfate by weight (50 g/L) over a 15-foot screened interval with an assumed ROI of 10 feet. The persulfate concentration that will be used in the pilot study will be determined by the laboratory SOD testing, and will likely be at or below this value with the initial target concentration in the 1 to 2 percent range. A range of approximately 1 to 5 percent should also be effective for full-scale application, and will allow flexibility in the injection approach so that areas of the BTEX plume can be adaptively targeted with appropriate oxidant dosing. The initial injection will use unactivated persulfate. Depending on the outcome of the initial study, this range may be adjusted or augmented with activation chemistry suitable for the site. The actual concentration range will be defined in the UIC permit.

	n_m = 0.05	**n_m = 0.1**	**n_m = 0.15**	**n_m = 0.20**
Injection volume (gallons)	1,763	3,525	5,288	7,050
Mass of sodium persulfate (lb)	774	1,547	2,321	3,095

The injection rate will likely range from approximately 1 to 2 gpm under gravity-feed conditions. Injection solution will be prepared in batches immediately prior to introducing into the injection well. A stock solution of clean water will be provided in the existing 20,000-gallon tank. This water will be used to fill a 500-gallon tote, where sodium persulfate will be added and fully mixed prior to injection. The injection will continue until a concentration representing 50 percent of the initial injection solution strength (i.e., conductivity reaches half the concentration measured in the tank) and a plateau in electrical conductivity is observed in dose-response wells.

Groundwater monitoring parameters and analysis methods are detailed in Table 3-2. Monitoring will be performed according to the schedule outlined in Tables 3-3a and 3-

3b. The scope of the breakthrough and post-breakthrough monitoring includes the following:

- Electrical conductivity, pH, and persulfate sampling and field testing in all monitor wells for six months (twice for the first week, weekly for weeks 2 to 4, and biweekly for months 1 to 3).
- Vertical profile of pH and electrical conductivity within the screened intervals of all monitor wells using a hand-held water quality probe.
- Analysis of comprehensive water quality parameters in the first, second, third, and sixth months after the injection.

3.3.3 Remediation Design

Data collected from the laboratory and initial injection events will be reviewed to evaluate changes in the remedial design necessary to achieve the remedial goals. This review will include the number and construction specifications for injection wells, anticipated concentration and volume of oxidant solution, number of injection events needed to reach remedial goals, a schedule of injection events, a remediation health and safety plan, and performance monitoring requirements and schedule. All well installation, development and sampling will be conducted in accordance with the approved Sampling and Analysis Plan and Quality Assurance Project Plan (ARCADIS 2008) and GA EPD requirements.

In the event that free product is observed in monitor wells at levels that would make ISCO cost-prohibitive or where pretreatment would be effective in shortening the duration of the planned ISCO events, EFR may be utilized. EFR events use multi-phase extraction (MPE) recovery techniques. MPE is a generic term used to describe the simultaneous extraction of soil vapor and liquid from the smear zone with the goal of dewatering the smear zone to recover free product, water, and vapor. Currently, the presence of free product is rare in monitor wells. However, the extent of free product will be verified periodically during monitoring events and during remediation activities such as pre-design sampling.

3.3.3.1 Sodium Persulfate

Approximately 12 persulfate injection wells will be installed into the surficial water-bearing unit as depicted on Figures 3-3a and 3-3b. The wells would be designed with an approximate transverse spacing of 20 feet, assuming a minimum ROI of 10 feet. In the direction of groundwater flow, the downgradient injection wells would be spaced on 30-foot centers. This is based on an estimated groundwater travel time of 10 feet over a two-month duration (the time over which unactivated persulfate is assumed to remain

active) with a hydraulic gradient of 0.008 ft/ft. These wells will be installed to target benzene concentrations in the unconfined water table above 1 mg/L where source mass is indicated by historical data. Additional injection wells may be installed where necessary to achieve the remedial objectives. The injection wells will be constructed using threaded-joint materials with polyvinyl chloride (PVC) solid casing construction. Each well will be constructed consistent with the typical injection well schematic provided on Figure 3-4. Typically, the well will be fitted with a 2-inch-diameter, 5 to 15 or 5 to 20-foot-long, 0.010-inch slot size, stainless steel V-wire or PVC wire wrapped screen. The well screen length will be determined based on vertical profiling data collected during the earlier investigations at the site. The screen sections will be attached to chemically compatible riser material that extends to the ground surface. Each well will be completed in a flush-mounted, traffic-bearing vault sufficiently sized to allow attachment of pressure fittings and to accommodate gauges and related injection equipment. Well tags or markers will be fitted to each well for permanent identification.

3.3.3.2 Calcium Peroxide

In order to ensure an adequate oxygen distribution, calcium peroxide will be injected in two rows perpendicular to groundwater flow. Injection points will be 10 feet apart and the two rows will be offset by 5 feet as depicted in Figure 3-3c. Existing monitor well P1-MW19 will be used to monitor the progress of the remediation. Calcium peroxide will be injected as slurry. The slurry will be prepared by mixing approximately 65 pounds (lbs) calcium peroxide and 300 gallons of tap water. The slurry will be prepared on site. The goal for injection quantity of calcium peroxide at each injection location will adjusted based on the biogeochemical data and actual aquifer injection capacity. Additional water may be added to facilitate diluting the calcium peroxide in order to more easily inject the solution. Following delivery of calcium peroxide solution, approximately 125 gallons minimum of clean water will be injected to help is dispersing the solution away from the injection point.

3.3.3.3 Permanent Groundwater Monitor Wells

Two groundwater monitor wells will be installed to monitor plume distribution and ISCO performance as depicted on Figure 3-3a. Numerous existing wells will be utilized for characterization of groundwater quality near the injection areas and will support performance monitoring over the remediation period. Any new monitor wells will be constructed in much the same manner as illustrated on Figure 3-4, although threaded-joint, Schedule 40, PVC well casing and screen materials will be used and there will be no adaptors fitted to the well for injection connections.

Each monitor well will be fitted with a 5- to 20-foot-long, 0.010-inch, machine-slotted, PVC well screen. Well depth may vary depending on estimated contaminant distribution. The screen will be placed in the borehole with the intention to have approximately 5 feet of screen extending into the unsaturated zone to allow observation of floating layers and mounding effects of the injection events. The screen will be attached to solid PVC riser material that extends to the ground surface. Each well will be completed in a flush-mounted, traffic-bearing manhole. Watertight locking caps and well tags will be fitted to each well. Well tags or markers will be fitted to each well for permanent identification.

3.4 Implementation

ISCO implementation will occur at the injection wells shown on Figures 3-3a and 3-3b with the intent of targeting groundwater containing benzene at concentrations above 1 mg/L where source mass is indicated. The initial implementation phase will include installing all persulfate injection wells and additional monitor wells illustrated in Figures 3-3a and 3-3b. The initial implementation phase will include injection of calcium peroxide in Area C as illustrated on Figure 3-3c and injection of sodium persulfate into one well in Area A and one well in Area B as illustrated in Figures 3-3a and 3-3b. The data from the limited initial persulfate injection will be utilized to refine the plan for subsequent full scale injection. The initial injection of calcium peroxide will provide rapid mitigation of potential surface water impacts. Installation of temporary features to facilitate oxidant mixing and delivery will also be performed. An overview of the project implementation elements include:

- Obtaining a UIC Permit for injection and construction activities in the initial phase of implementation.
- Installing permanent flush-mounted wells for the purpose of persulfate injection with the screened intervals aligned to intercept the most impacted portion of the aquifer.
- Installing at least two additional monitor well for plume monitoring. The screen sections of these wells will be dependent on injection well screen intervals.
- Performing a baseline groundwater sampling event that consists of collecting samples for analysis of biogeochemical parameters and BTEX.
- If needed, performing enhanced fluid recovery extraction events to remove free product in areas where it is identified as a safety precaution prior to persulfate injection as well as a remedial objective of reducing free product thickness to less than 1/8 inch.

- Injecting slurried calcium peroxide into the water table and smear zone to effectively intercept the plume migrating to the drainage canal. Additional injection(s) may be performed depending on BTEX concentration trends from the source and dissolved oxygen concentrations.
- Constructing a mobile mixing and injection system for use in injection events. This system will be designed to be capable of injecting into multiple locations at once. Injection water will be amended with the sodium persulfate and activator (if required) and injected. This will maximize injection production and minimize the time needed to complete the injection process. At the end of each day of injections, the trailer will be moved to a secure location in accordance with HAAF direction.
- Performing an initial persulfate injection event and additional events as needed for the active phase of remediation. Anticipated concentrations of sodium persulfate solution in the 1 to 5 percent range combined with an activator (if required) will be injected on a periodic basis (anticipated to range between four months and six months apart). Focused ISCO treatment will be optimized during implementation relative to the quantities of reagents needed, volumes of solution to be injected, injection schedules, and labor requirements to administer the technology.
- Performing post-injection performance monitoring events to verify that oxidant distribution is adequate to achieve design criteria needed to meet remedial goals. This monitoring will begin following the first injection event. The periodicity of monitoring events will depend largely on the rate of oxidant consumption and associated rate at which BTEX is eliminated from the aquifer.

3.4.1 Milestone Schedule

A milestone schedule for the proposed corrective action has been prepared. A chart showing milestone activities and anticipated duration is provided in Figure 3-5. Fort Stewart will notify GA EPD USTMP of any significant changes to the schedule and will provide GA EPD USTMP with an updated chart, as necessary.

3.4.2 Progress Reporting

Performance Reports will be submitted to GA EPD that will summarize the sampling, injection and/or monitoring activities. At a minimum, the Performance Report will consist of a table summarizing the activities and analytical data and a proposal for subsequent activities. In addition, annual reports will be submitted to GA EPD that will summarize all remediation and monitoring activities for the preceding year.

Petition for permanent closure (i.e., completion report) will be submitted upon approval of the final progress report when Release #2 reaches GA EPD-approved

closure criteria. GA EPD will provide final approval for decommissioning the monitor wells. Decommissioning of the monitor wells will be completed in accordance with the U.S. Army Corps of Engineers (USACE) design manual for monitor wells. Decommissioning will comply with all applicable state and federal standards. The following certification will be submitted to GA EPD within 30 days of submittal of the final progress report:

> I hereby certify that the Corrective Action Plan–Part B, dated , 20 , for Hunter Army Airfield, Former Pumphouse #1 site (Release #2), Facility ID 9-025085*2, including any and all certified amendments/addenda thereto, has been implemented in accordance with the schedules, specifications, sampling programs, and conditions contained therein and that the plan's stated objectives have been met.
>
> _____
>
> Signature (Owner/Operator)

3.4.3 Inspection Schedule and Preventative Maintenance Program

All associated field equipment and supplies with direct application to injection activities will be inspected by field personnel prior to each use and monitored during the event to ensure proper functionality. Any suspect equipment will not be used and will be replaced. Any questionable performance issues while performing injections will be brought to the project manager's attention immediately for recommendations as to a proper course of action. Appendix F contains an excerpt from an ISCO remediation procedure and pertinent safety-related information regarding chemical handling and injection. A comprehensive health and safety plan will be maintained and utilized during the performance of this remedial project. Preventive maintenance inspection criteria include:

- Injection chemical mix tank concentrations – daily using persulfate field kit
- Injection hose and piping for leaks or notable deterioration. All process lines shall be pressure tested for leaks prior to the addition of oxidant or activator at the outset of each of the three planned full-scale injection events – daily prior to use
- Injection equipment valves, flowmeters, pressure gauges – daily for proper operation and leaks at fittings
- Containment area, delivery and storage area for adequate access, stability, and absence of impediments to level loading, emergency response equipment (personal protective equipment quantity and adequacy for use, eye wash

equipment, emergency water supply operation), site security and chemical storage area, chemical hazard communication labeling and placarding – daily

- Injection well pressure and flow – hourly during periods of injection at every injection well and manifold

3.4.4 Periodic Monitoring

Prior to initiating injections, as part of the pre-design data collection effort, a baseline groundwater sampling event will be performed as previously described. Post-injection performance monitoring events will be undertaken to verify that oxidant distribution is adequate to achieve design criteria needed to meet remedial goals. This monitoring will begin following the first injection event. The frequency of monitoring events will depend largely on the rate of oxidant consumption and associated rate at which BTEX is eliminated from the aquifer. BTEX samples will be collected from up to 15 monitor wells for each sampling event. Conventional low-flow sampling techniques will be used to collect biogeochemical parameters, such as persulfate, ferrous iron, dissolved oxygen, pH, and conductivity, during the post-injection monitoring events. Depending on the results and associated data density, the injection wells may be used for performance monitoring provided that sufficient time has elapsed from an injection event so that formation groundwater not impacted from oxidant injection is sampled. The proposed monitoring schedule during and after persulfate injection is presented in Tables 3-3a and 3-3b. Semiannual sampling events will be conducted in accordance with the schedule currently approved by EPD for the site. All sampling will conducted in accordance with the approved Sampling and Analysis Plan and Quality Assurance Project Plan (ARCADIS 2008) and GA EPD requirements.

3.4.5 Effectiveness of Corrective Action

The progress of the corrective action will be evaluated using baseline data and post-injection performance monitoring data. Oxidant distribution and consumption rate and the rate of BTEX elimination will be determined to assess the effectiveness of the corrective action. Liquid level measurements in the site monitor wells will be measured to ensure free product thickness is less than 1/8 inch. Groundwater samples from monitor well P1-MW-19 will be analyzed for BTEX and dissolved oxygen concentration and surface water samples will be analyzed for BTEX concentration to ensure that the impacts to surface water in the canal are mitigated.

3.4.6 Confirmatory Soil Sampling Program

No excavation of soil is planned. Therefore, confirmatory sampling associated with excavation of soil will not be performed. Confirmatory sampling of soil contamination

that previously exceeded the benzene ATL of 9.3 mg/kg has been completed and all concentrations were below ATLs. Confirmatory soil samples for chrysene will be taken after groundwater goals are achieved.

3.4.7 Stockpiled Bulk Soil Sampling

No stockpiled soil will be generated by this corrective action. Therefore, no soil sampling will be conducted.

3.4.8 Monitoring Only Termination Conditions

As previously stated in the CAP, the following conditions are required prior to termination of monitoring only program:

- Concentrations of benzene in groundwater must be at or below the ACL
- Concentrations of benzene and chrysene in soil must be at or below their respective ATLs prior to termination of the monitoring only program
- Product removal activities have reached a quantifiable goal agreed to by GA EPD and HAAF

Once these conditions are met, the remedial system and monitoring may be terminated regardless of the site ranking score.

3.4.9 Post-Completion Site Restoration Activities

As the remediation is currently planned, no modifications will be made to the Release #2 area because no permanent equipment or systems will be located at the site. Monitoring and injection wells will be properly abandoned in accordance with the Georgia EPD Manual for Ground Water Monitoring once a "No Further Action" notification is received from the EPD.

4. Public Notification

The former Pumphouse #1 site is located entirely within the confines of HAAF, which is part of the Fort Stewart Military Reservation, a federal facility. The U. S. Government owns all of the property contiguous to the site. The Fort Stewart DPW has complied with the public notice requirements defined by GA EPD guidance by publishing an announcement in the *Savannah Morning News* on April 1 and 8, 2001. When GA EPD and HAAF agree that the free product removal part of the corrective action has been completed, an updated public notice will be made.

5. Claim for Reimbursement

HAAF is a federally owned facility and has funded the investigation for the former Pumphouse #1 site (Release #2), Facility ID #9-025085*2 using U. S. Department of Defense Environmental Restoration Funds. Application for GUST Trust Fund reimbursement is not being pursued at this time.

6. References

ARCADIS 2008. Sampling and Analysis Plan and Quality Assurance Project Plan, *Hunter Army Airfield, Georgia*, November.

Science Applications International Corporation (SAIC) 2008. Sixth Annual Monitoring Only Report for Former Pumphouse #1, Building 8060, Facility ID # 9-025085, Hunter Army Airfield, Georgia, September.

SAIC 2007. Fifth Annual Monitoring Only Report for Former Pumphouse #1, Building 8060, Facility ID # 9-025085, Hunter Army Airfield, Georgia, October.

SAIC 2006b. 2004-2005 Free Product Removal Report for Former Pumphouse #1, Release #1, Building 8060, Facility ID # 9-025085*1, Hunter Army Airfield, Georgia, April.

SAIC 2006a. Corrective Action Plan-Part B Addendum #2 for Former Pumphouse #1, Building 8060, Facility ID # 9-025085, Hunter Army Airfield, Georgia, July.

SAIC 2005. Third Annual Monitoring Only Report for Former Pumphouse #1, Building 8060, Facility ID # 9-025085, Hunter Army Airfield, Georgia, June.

SAIC 2002b. First Annual Monitoring Only Report for Former Pumphouse #1, Building 8060, Facility ID # 9-025085, Hunter Army Airfield, Georgia, August.

SAIC 2002a. Corrective Action Plan–Part B Addendum #1 for Former Pumphouse #1, Facility ID # 9-025085, Building 8060, Hunter Army Airfield, Georgia, September.

SAIC 2000. Corrective Action Plan–Part B for Former Pumphouse #1, Facility ID #9-025085, Building 8060, Hunter Army Airfield, Georgia, August.

Miller, James A. 1990. *Groundwater Atlas of the United States*, U. S. Department of the Interior, U. S. Geological Survey, Hydrologic Inventory Atlas 730G.

GA EPD (Georgia Environmental Protection Division) 1992. *Groundwater Pollution Susceptibility Map of Georgia.*

Arora, Ram 1984. *Hydrologic Evaluation for Underground Injection Control in the Coastal Plain of Georgia,* Department of Natural Resources, Environmental Protection Division, Georgia Geological Survey.

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APPENDIX A

Laboratory Data

January 2008 Supplemental Investigation

Note: Original data and Chain of Custody were submitted in 6th Annual Monitoring Only Report.

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APPENDIX B

Laboratory Data

July 2008 Semiannual Monitoring

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APPENDIX C

Laboratory Data

December 2008 Annual Monitoring

Note: Lab provides analytical data in electronic form only. Original COC is included.

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APPENDIX D

Site Ranking Form

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APPENDIX E

Pilot Test UIC Form

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APPENDIX F

ARCADIS Remediation Procedure
ARC RSE-002: In Situ Chemical Oxidation

Table 2-1
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well Number	Date of Measurement	Top of Casing Elevation (ft AMSL)	Screened Interval (ft BGS)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Groundwater Elevation (ft AMSL)
Corrective Action Plan–Part B Investigation – 1999							
D-MW-05	11/1/1999	37.98	6.5 – 16.5	--	9.48	0	28.50
D-MW-06	11/1/1999	37.71	6.0 – 16.0	--	9.36	0	28.35
D-MW-07	11/1/1999	38.16	5.8 – 15.8	--	9.92	0	28.24
P1-MW-01	11/1/1999	36.28	6.8 – 16.8	--	10.81	0	25.47
P1-MW-02	11/1/1999	37.34	7.0 – 17.0	--	10.31	0	27.03
P1-MW-03	11/1/1999	37.24	6.0 – 16.0	--	8.71	0	28.53
P1-MW-18	11/1/1999	35.92	9.5 – 19.5	--	10.47	0	25.45
P1-MW-19	11/1/1999	37.76	9.0 – 19.0	--	12.29	0	25.47
P1-MW-20	11/1/1999	36.98	7.0 – 17.0	--	9.80	0	27.18
P1-MW-22	11/1/1999	37.28	6.0 – 16.0	--	8.83	0	28.45
P1-MW-23	11/1/1999	37.75	7.0 – 17.0	--	9.55	0	28.20
P1-MW-24	11/1/1999	36.12	29.5 – 34.5	--	9.76	0	26.36
P1-MW-40	11/1/1999	37.3	3.8 – 33.8	--	9.01	0	28.29
First Semiannual Sampling Event – September 2001							
D-MW-05	9/5/2001	37.98	6.5 – 16.5	10.83	11.32	0.49	27.09 *a*
D-MW-06	9/5/2001	37.71	6.0 – 16.0	--	10.71	0	27.00
D-MW-07	9/5/2001	38.16	5.8 – 15.8	--	11.21	0	26.95
P1-MW-01	9/5/2001	36.28	6.8 – 16.8	--	10.87	0	25.41
P1-MW-02	9/5/2001	37.34	7.0 – 17.0	10.98	11.05	0.07	26.35 *a*
P1-MW-03	9/5/2001	37.24	6.0 – 16.0	10.29	10.31	0.02	26.95 *a*
P1-MW-18	9/5/2001	35.92	9.5 – 19.5	--	11.16	0	24.76
P1-MW-19	9/5/2001	37.76	9.0 – 19.0	--	12.75	0	25.01
P1-MW-20	9/5/2001	36.98	7.0 – 17.0	--	10.92	0	26.06
P1-MW-22	9/5/2001	37.28	6.0 – 16.0	10.50	10.52	0.02	26.78 *a*
P1-MW-23	9/5/2001	37.75	7.0 – 17.0	--	10.92	0	26.83
P1-MW-24	9/5/2001	36.12	29.5 – 34.5	--	10.56	0	25.56
P1-MW-40	9/5/2001	37.3	3.8 – 33.8	--	10.52	0	26.78
Absorbent Sock Replacement – November 2001							
D-MW-05 *b*	11/8/2001	37.98	6.5 – 16.5	10.96	11.32	0.36	26.98 *a*
D-MW-06 *c*	11/8/2001	37.71	6.0 – 16.0	--	10.77	0	26.94
P1-MW-02 *b*	11/8/2001	37.34	7.0 – 17.0	11.05	11.08	0.03	26.29 *a*
P1-MW-03	11/8/2001	37.24	6.0 – 16.0	NR	NR	NR	NR
P1-MW-22	11/8/2001	37.28	6.0 – 16.0	NR	NR	NR	NR
Absorbent Sock Replacement – January 2002							
D-MW-05 *b*	1/18/2002	37.98	6.5 – 16.5	11.52	11.52	sheen	26.46
D-MW-06 *c*	1/18/2002	37.71	6.0 – 16.0	--	11.18	0	26.53
P1-MW-02 *b*	1/18/2002	36.28	6.8 – 16.8	11.49	11.49	sheen	24.79
P1-MW-03 *b*	1/18/2002	37.24	6.0 – 16.0	10.84	10.84	sheen	26.40
P1-MW-22 *c*	1/18/2002	37.28	6.0 – 16.0	--	11.07	0	26.21

*Source: Thirteenth Semiannual Monitoring Only Report Former Pumphouse #1, Release #2 (SAIC, 2009)

NOTES:

AMSL - Above mean sea level
BGS - Below ground surface
BTOC - Below top of casing
NR - Not recorded
a - The groundwater elevation was corrected using a density of 880 kg/m3 for the product.
b - The absorbent sock was placed or replaced in the well on the date of the measurements.
c - The absorbent sock was not placed in the well on the date of the measurements.
d - Wells D-MW-05 and D-MW-06 were destroyed in May 2002 when the tarmac was upgraded. These two wells were reinstalled in October 2002.
e - Science Applications International Corporation was not under contract to change out absorbent socks from August 2003 to May 2004.

Table 2-1
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well Number	Date of Measurement	Top of Casing Elevation (ft AMSL)	Screened Interval (ft BGS)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Groundwater Elevation (ft AMSL)
Second Semiannual Sampling Event – March 2002							
D-MW-05 *b*	3/14/2002	37.98	6.5 – 16.5	10.95	10.95	sheen	27.03
D-MW-06 *c*	3/14/2002	37.71	6.0 – 16.0	--	10.75	0	26.96
D-MW-07	3/14/2002	38.16	5.8 – 15.8	--	11.14	0	27.02
P1-MW-01	3/14/2002	36.28	6.8 – 16.8	--	10.38	0	25.90
P1-MW-02 *b*	3/14/2002	37.34	7.0 – 17.0	--	10.51	0	26.83
P1-MW-03 *b*	3/14/2002	37.24	6.0 – 16.0	--	10.16	0	27.08
P1-MW-18	3/14/2002	35.92	9.5 – 19.5	--	10.89	0	25.03
P1-MW-19	3/14/2002	37.76	9.0 – 19.0	--	12.50	0	25.26
P1-MW-20	3/14/2002	36.98	7.0 – 17.0	--	10.43	0	26.55
P1-MW-22 *c*	3/14/2002	37.28	6.0 – 16.0	--	10.18	0	27.10
P1-MW-23	3/14/2002	37.75	7.0 – 17.0	--	10.69	0	27.06
P1-MW-24	3/14/2002	36.12	29.5 – 34.5	--	10.38	0	25.74
P1-MW-40	3/14/2002	37.3	3.8 – 33.8	--	10.26	0	27.04
Absorbent Sock Replacement – May 2002							
D-MW-05 *c*	5/17/02	37.98	6.5 – 16.5	--	11.52	0	26.46
D-MW-06 *c*	5/17/02	37.71	6.0 – 16.0	--	11.18	0	26.53
P1-MW-02 *c*	5/17/02	36.28	6.8 – 16.8	--	11.65	0	24.63
P1-MW-03 *c*	5/17/02	37.24	6.0 – 16.0	--	10.89	0	26.35
Absorbent Sock Replacement – June 2002							
D-MW-05	6/7/2002	*d*	*d*	*d*	*d*	*d*	*d*
D-MW-06 *c*	6/7/2002	*d*	*d*	*d*	*d*	*d*	*d*
P1-MW-02 *c*	6/7/2002	37.34	7.0 – 17.0	--	10.96	0	26.38
P1-MW-03 *b*	6/7/2002	37.24	6.0 – 16.0	10.96	11.04	0.08	26.27 *a*
P1-MW-22 *c*	6/7/2002	37.28	6.0 – 16.0	--	10.54	0	26.74
Absorbent Sock Replacement – July 2002							
D-MW-05	7/11/2002	*d*	*d*	*d*	*d*	*d*	*d*
D-MW-06 *c*	7/11/2002	*d*	*d*	*d*	*d*	*d*	*d*
P1-MW-02 *c*	7/11/2002	37.34	7.0 – 17.0	--	8.93	0	28.41
P1-MW-03 *b*	7/11/2002	37.24	6.0 – 16.0	--	8.29	0	28.95
P1-MW-22 *c*	7/11/2002	37.28	6.0 – 16.0	--	8.24	0	29.04
Absorbent Sock Replacement – August 2002							
D-MW-05	8/13/2002	*d*	*d*	*d*	*d*	*d*	*d*
D-MW-06	8/13/2002	*d*	*d*	*d*	*d*	*d*	*d*
P1-MW-02 *c*	8/13/2002	37.34	7.0 – 17.0	--	9.72	0	27.62
P1-MW-03 *b*	8/13/2002	37.24	6.0 – 16.0	--	8.78	0	28.46
P1-MW-22 *c*	8/13/2002	37.28	6.0 – 16.0	--	8.88	0	28.40

*Source: Thirteenth Semiannual Monitoring Only Report Former Pumphouse #1, Release #2 (SAIC, 2009)

NOTES:

AMSL - Above mean sea level
BGS - Below ground surface
BTOC - Below top of casing
NR - Not recorded
a - The groundwater elevation was corrected using a density of 880 kg/m3 for the product.
b - The absorbent sock was placed or replaced in the well on the date of the measurements.
c - The absorbent sock was not placed in the well on the date of the measurements.
d - Wells D-MW-05 and D-MW-06 were destroyed in May 2002 when the tarmac was upgraded. These two wells were reinstalled in October 2002.
e - Science Applications International Corporation was not under contract to change out absorbent socks from August 2003 to May 2004.

Table 2-1
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well Number	Date of Measurement	Top of Casing Elevation (ft AMSL)	Screened Interval (ft BGS)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Groundwater Elevation (ft AMSL)
Absorbent Sock Replacement – September 2002							
D-MW-05	9/24/2002	d	d	d	d	d	d
D-MW-06	9/24/2002	d	d	d	d	d	d
P1-MW-02 c	9/24/2002	37.34	7.0 – 17.0	--	10.28	0	27.06
P1-MW-03 b	9/24/2002	37.24	6.0 – 16.0	--	9.21	sheen	28.03
P1-MW-22 b	9/24/2002	37.28	6.0 – 16.0	9.41	9.42	0.01	27.87 a
Absorbent Sock Replacement – October 2002							
D-MW-05	10/20/2002	d	d	d	d	d	d
D-MW-06	10/20/2002	d	d	d	d	d	d
P1-MW-02 c	10/20/2002	37.34	7.0 – 17.0	--	8.88	0	28.46
P1-MW-03 b	10/20/2002	37.24	6.0 – 16.0	--	8.33	0	28.91
P1-MW-22 b	10/20/2002	37.28	6.0 – 16.0	--	8.27	0	29.01
Absorbent Sock Replacement – December 2002							
D-MW-05R	12/20/2002	d	d	d	d	d	d
D-MW-06R	12/20/2002	d	d	d	d	d	d
P1-MW-02 c	12/20/2002	37.34	7.0 – 17.0	--	9.43	0	27.91
P1-MW-03 b	12/20/2002	37.24	6.0 – 16.0	--	8.63	0	28.61
P1-MW-22 b	12/20/2002	37.28	6.0 – 16.0	--	8.77	0	28.51
Third Semiannual Sampling Event – January 2003							
D-MW-05R c	1/23/2003	38.18	4.6 – 14.6	--	10.24	0	27.94
D-MW-06R c	1/23/2003	37.79	4.8 – 14.8	--	9.31	0	28.48
P1-MW-01	1/23/2003	36.28	6.8 – 16.8	--	10.78	0	25.50
P1-MW-02 c	1/23/2003	37.34	7.0 – 17.0	--	10.26	0	27.08
P1-MW-03 b	1/23/2003	37.24	6.0 – 16.0	--	9.31	0	27.93
P1-MW-18	1/23/2003	35.92	9.5 – 19.5	--	11.48	0	24.44
P1-MW-19	1/23/2003	37.76	9.0 – 19.0	--	13.30	0	24.46
P1-MW-20	1/23/2003	36.98	7.0 – 17.0	--	10.51	0	26.47
P1-MW-21	1/23/2003	37.29	7.0 – 17.0	--	10.61	0	26.68
P1-MW-22 b	1/23/2003	37.28	6.0 – 16.0	--	9.49	0	27.79
P1-MW-23	1/23/2003	37.75	7.0 – 17.0	--	10.07	0	27.68
P1-MW-24	1/23/2003	36.12	29.5 – 34.5	--	10.58	0	25.54
P1-MW-40	1/23/2003	37.3	3.8 – 33.8	--	10.46	0	26.84
Absorbent Sock Replacement – February 2003							
D-MW-05R c	2/18/2003	38.18	4.6 – 14.6	--	10.51	0	27.67
D-MW-06R c	2/18/2003	37.79	4.8 – 14.8	--	9.98	sheen	27.81
P1-MW-02 c	2/18/2003	37.34	7.0 – 17.0	10.74	10.75	0.01	26.60 a
P1-MW-03 b	2/18/2003	37.24	6.0 – 16.0	9.55	9.56	0.01	27.69 a
P1-MW-22 b	2/18/2003	37.28	6.0 – 16.0	sheen	9.93	sheen	27.35

*Source: Thirteenth Semiannual Monitoring Only Report Former Pumphouse #1, Release #2 (SAIC, 2009)

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c - The absorbent sock was not placed in the well on the date of the measurements.
d - Wells D-MW-05 and D-MW-06 were destroyed in May 2002 when the tarmac was upgraded. These two wells were reinstalled in October 2002.
e - Science Applications International Corporation was not under contract to change out absorbent socks from August 2003 to May 2004.

Table 2-1
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well Number	Date of Measurement	Top of Casing Elevation (ft AMSL)	Screened Interval (ft BGS)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Groundwater Elevation (ft AMSL)
Absorbent Sock Replacement – March 2003							
D-MW-05R *b,c*	3/20/2003	38.18	4.6 – 14.6	--	9.23	0	28.95
D-MW-06R *c*	3/20/2003	37.79	4.8 – 14.8	--	9.02	0	28.77
P1-MW-02 *c*	3/20/2003	37.34	7.0 – 17.0	--	8.81	sheen	28.53
P1-MW-03 *b*	3/20/2003	37.24	6.0 – 16.0	--	7.93	0	29.31
P1-MW-22 *b*	3/20/2003	37.28	6.0 – 16.0	--	8.07	0	29.21
Absorbent Sock Replacement – April 2003							
D-MW-05R *b,c*	4/24/2003	38.18	4.6 – 14.6	--	8.88	0	29.30
D-MW-06R *c*	4/24/2003	37.79	4.8 – 14.8	--	8.61	0	29.18
P1-MW-02 *c*	4/24/2003	37.34	7.0 – 17.0	--	8.66	0	28.68
P1-MW-03 *b*	4/24/2003	37.24	6.0 – 16.0	--	7.80	sheen	29.44
P1-MW-22 *b*	4/24/2003	37.28	6.0 – 16.0	--	7.79	sheen	29.49
Absorbent Sock Replacement – May 2003							
D-MW-05R *c*	5/17/2003	38.18	4.6 – 14.6	--	9.48	0	28.70
D-MW-06R *c*	5/17/2003	37.79	4.8 – 14.8	--	9.04	0	28.75
P1-MW-02 *c*	5/17/2003	37.34	7.0 – 17.0	--	9.79	0	27.55
P1-MW-03 *b*	5/17/2003	37.24	6.0 – 16.0	--	8.56	0	28.68
P1-MW-22 *b*	5/17/2003	37.28	6.0 – 16.0	--	8.80	0	28.48
Fourth Semiannual Sampling Event – June 2003							
D-MW-05R *c*	6/21/2003	38.18	4.6 – 14.6	--	9.63	0	28.55
D-MW-06R *c*	6/21/2003	37.79	4.8 – 14.8	--	9.33	0	28.46
P1-MW-01	6/21/2003	36.28	6.8 – 16.8	--	10.26	0	26.02
P1-MW-02 *c*	6/21/2003	37.34	7.0 – 17.0	--	9.44	0	27.90
P1-MW-03 *b*	6/21/2003	37.24	6.0 – 16.0	--	8.48	0	28.76
P1-MW-18	6/21/2003	35.92	9.5 – 19.5	--	11.13	0	24.79
P1-MW-19	6/21/2003	37.76	9.0 – 19.0	--	13.20	0	24.56
P1-MW-20	6/21/2003	36.98	7.0 – 17.0	--	9.54	0	27.44
P1-MW-21	6/21/2003	37.29	7.0 – 17.0	NR	NR	NR	NR
P1-MW-22 *b*	6/21/2003	37.28	6.0 – 16.0	--	8.72	0	28.56
P1-MW-23	6/21/2003	37.75	7.0 – 17.0	--	9.33	0	28.42
P1-MW-24	6/21/2003	36.12	29.5 – 34.5	--	10.33	0	25.79
P1-MW-40	6/21/2003	37.3	3.8 – 33.8	--	8.68	0	28.62
Absorbent Sock Replacement – June 2003							
D-MW-05R *c*	6/24/2003	38.18	4.6 – 14.6	--	9.53	0	28.65
D-MW-06R *c*	6/24/2003	37.79	4.8 – 14.8	--	9.18	0	28.61
P1-MW-02 *c*	6/24/2003	37.34	7.0 – 17.0	9.29	9.30	0.01	28.05 *a*
P1-MW-03 *b*	6/24/2003	37.24	6.0 – 16.0	--	8.44	0	28.80
P1-MW-22 *b*	6/24/2003	37.28	6.0 – 16.0	--	8.58	0	28.70

*Source: Thirteenth Semiannual Monitoring Only Report Former Pumphouse #1, Release #2 (SAIC, 2009)

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Table 2-1
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well Number	Date of Measurement	Top of Casing Elevation (ft AMSL)	Screened Interval (ft BGS)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Groundwater Elevation (ft AMSL)
Absorbent Sock Replacement – July 2003 [c]							
D-MW-05R [c]	7/20/2003	38.18	4.6 – 14.6	--	10.02	0	28.16
D-MW-06R [c]	7/20/2003	37.79	4.8 – 14.8	--	9.56	0	28.32
P1-MW-02 [c]	7/20/2003	37.34	7.0 – 17.0	--	10.38	0	26.96
P1-MW-03 [b]	7/20/2003	37.24	6.0 – 16.0	--	9.08	0	28.16
P1-MW-22 [b]	7/20/2003	37.28	6.0 – 16.0	--	9.43	0	27.85
Absorbent Sock Replacement – June 2004							
D-MW-05R [b]	6/20/2004	38.18	4.6 – 14.6	11.22	11.31	0.09	26.94 [a]
D-MW-06R [c]	6/20/2004	37.79	4.8 – 14.8	--	10.75	0	27.04
P1-MW-02 [b]	6/20/2004	37.34	7.0 – 17.0	10.98	11.12	0.14	26.34 [a]
P1-MW-03 [b]	6/20/2004	37.24	6.0 – 16.0	--	10.15	0	27.09
P1-MW-22 [b]	6/20/2004	37.28	6.0 – 16.0	--	10.40	0	26.88
Fifth Semiannual Sampling Event – July 2004							
D-MW-05R [b]	7/17/2004	38.18	4.6 – 14.6	--	10.28	0	27.90
D-MW-06R [c]	7/17/2004	37.79	4.8 – 14.8	--	9.88	0	27.91
P1-MW-01	7/17/2004	36.28	6.8 – 16.8	--	10.51	0	25.77
P1-MW-02 [b]	7/17/2004	37.34	7.0 – 17.0	9.81	9.82	0.01	27.53 [a]
P1-MW-03 [b]	7/17/2004	37.24	6.0 – 16.0	--	9.17	0	28.07
P1-MW-18	7/17/2004	35.92	9.5 – 19.5	--	11.32	0	24.60
P1-MW-19	7/17/2004	37.76	9.0 – 19.0	--	13.30	0	24.46
P1-MW-20	7/17/2004	36.98	7.0 – 17.0	--	10.01	0	26.97
P1-MW-21	7/17/2004	37.29	7.0 – 17.0	NR	NR	NR	NR
P1-MW-22 [b]	7/17/2004	37.28	6.0 – 16.0	--	9.16	0	28.12
P1-MW-23	7/17/2004	37.75	7.0 – 17.0	--	9.87	0	27.88
P1-MW-24	7/17/2004	36.12	29.5 – 34.5	--	11.02	0	25.10
P1-MW-40	7/17/2004	37.3	3.8 – 33.8	--	9.33	0	27.97
Absorbent Sock Replacement – August 2004							
D-MW-05R [b]	8/20/2004	38.18	4.6 – 14.6	--	10.05	0	28.13
D-MW-06R [c]	8/20/2004	37.79	4.8 – 14.8	--	9.64	0	28.15
P1-MW-02 [b]	8/20/2004	37.34	7.0 – 17.0	--	9.59	0	27.75
P1-MW-03 [b]	8/20/2004	37.24	6.0 – 16.0	--	8.92	0	28.32
P1-MW-22 [b]	8/20/2004	37.28	6.0 – 16.0	--	8.98	0	28.30
Absorbent Sock Replacement – September 2004							
D-MW-05R [b]	9/18/2004	38.18	4.6 – 14.6	--	8.46	0	29.72
D-MW-06R [c]	9/18/2004	37.79	4.8 – 14.8	--	9.20	0	28.59
P1-MW-02 [b]	9/18/2004	37.34	7.0 – 17.0	--	8.77	0	28.57
P1-MW-03 [b]	9/18/2004	37.24	6.0 – 16.0	7.16	7.17	0.01	30.08 [a]
P1-MW-22 [b]	9/18/2004	37.28	6.0 – 16.0	--	8.08	0	29.20

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Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well Number	Date of Measurement	Top of Casing Elevation (ft AMSL)	Screened Interval (ft BGS)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Groundwater Elevation (ft AMSL)
Absorbent Sock Replacement – October 2004							
D-MW-05R *b*	10/15/2004	38.18	4.6 – 14.6	--	9.52	0	28.66
D-MW-06R *c*	10/15/2004	37.79	4.8 – 14.8	--	9.20	0	28.59
P1-MW-02 *b*	10/15/2004	37.34	7.0 – 17.0	--	9.35	0	27.99
P1-MW-03 *b*	10/15/2004	37.24	6.0 – 16.0	--	8.24	0	29.00
P1-MW-22 *b*	10/15/2004	37.28	6.0 – 16.0	--	8.48	0	28.80
Absorbent Sock Replacement – November 2004							
D-MW-05R *b*	11/20/2004	38.18	4.6 – 14.6	--	10.25	0	27.93
D-MW-06R *c*	11/20/2004	37.79	4.8 – 14.8	--	9.74	0	28.05
P1-MW-02 *b*	11/20/2004	37.34	7.0 – 17.0	--	10.29	0	27.05
P1-MW-03 *b*	11/20/2004	37.24	6.0 – 16.0	--	9.33	0	27.91
P1-MW-21 *c*	11/20/2004	37.29	7.0 – 17.0	10.67	10.68	0.01	26.62 *a*
P1-MW-22 *b*	11/20/2004	37.28	6.0 – 16.0	--	9.51	0	27.77
Absorbent Sock Replacement – December 2004							
D-MW-05R *b*	12/16/04	38.18	4.6 – 14.6	--	10.70	0	27.48
D-MW-06R *c*	12/16/04	37.79	4.8 – 14.8	--	10.13	0	27.66
P1-MW-02 *b*	12/16/04	37.34	7.0 – 17.0	--	10.83	0	26.51
P1-MW-03 *b*	12/16/04	37.24	6.0 – 16.0	--	9.97	0	27.27
P1-MW-21 *c*	12/16/04	37.29	7.0 – 17.0	--	11.24	0	26.05
P1-MW-22 *b*	12/16/04	37.28	6.0 – 16.0	--	10.05	0	27.23
Sixth Semiannual Sampling Event – January 2005							
D-MW-05R *b*	1/14/2005	38.18	4.6 – 14.6	sheen	10.88	sheen	27.30
D-MW-06R *c*	1/14/2005	37.79	4.8 – 14.8	--	10.52	0	27.27
P1-MW-01	1/14/2005	36.28	6.8 – 16.8	--	11.60	0	24.68
P1-MW-02 *b*	1/14/2005	37.34	7.0 – 17.0	sheen	11.15	sheen	26.19
P1-MW-03 *b*	1/14/2005	37.24	6.0 – 16.0	sheen	10.02	sheen	27.22
P1-MW-18	1/14/2005	35.92	9.5 – 19.5	--	12.17	0	23.75
P1-MW-19	1/14/2005	37.76	9.0 – 19.0	--	14.01	0	23.75
P1-MW-21	1/14/2005	37.29	7.0 – 17.0	sheen	11.54	sheen	25.75
P1-MW-22 *b*	1/14/2005	37.28	6.0 – 16.0	sheen	10.32	sheen	26.96
P1-MW-23	1/14/2005	37.75	7.0 – 17.0	--	10.83	0	26.92
Absorbent Sock Replacement – February 2005							
D-MW-05R *b*	2/15/2005	38.18	4.6 – 14.6	--	11.02	0	27.16
D-MW-06R *c*	2/15/2005	37.79	4.8 – 14.8	--	10.41	0	27.38
P1-MW-02 *b*	2/15/2005	37.34	7.0 – 17.0	--	11.40	0	25.94
P1-MW-03 *b*	2/15/2005	37.24	6.0 – 16.0	--	10.21	0	27.03
P1-MW-21 *b*	2/15/2005	37.29	7.0 – 17.0	sheen	11.77	sheen	25.52
P1-MW-22 *b*	2/15/2005	37.28	6.0 – 16.0	sheen	10.55	sheen	26.73

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Former Pumphouse #1 (Release #2)
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Well Number	Date of Measurement	Top of Casing Elevation (ft AMSL)	Screened Interval (ft BGS)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Groundwater Elevation (ft AMSL)
Absorbent Sock Replacement – March 2005							
D-MW-05R [b]	3/16/2005	38.18	4.6 – 14.6	7.50	7.50	0	30.68
D-MW-06R [c]	3/16/2005	37.79	4.8 – 14.8	10.04	10.04	0	27.75
P1-MW-02 [b]	3/16/2005	37.34	7.0 – 17.0	10.85	10.85	0	26.49
P1-MW-03 [b]	3/16/2005	37.24	6.0 – 16.0	9.56	9.56	0	27.68
P1-MW-21 [b]	3/16/2005	37.29	7.0 – 17.0	11.20	11.20	0	26.09
P1-MW-22 [b]	3/16/2005	37.28	6.0 – 16.0	9.97	9.97	0	27.31
Seventh Semiannual Sampling Event – July2005							
D-MW-05R [c]	7/16/2005	38.18	4.6 – 14.6	--	8.95	0	29.23
D-MW-06R [c]	7/16/2005	37.79	4.8 – 14.8	--	8.63	0	29.16
P1-MW-01	7/16/2005	36.28	6.8 – 16.8	--	10.21	0	26.07
P1-MW-02 [c]	7/16/2005	37.34	7.0 – 17.0	--	9.17	0	28.17
P1-MW-03 [c]	7/16/2005	37.24	6.0 – 16.0	--	7.92	0	29.32
P1-MW-18	7/16/2005	35.92	9.5 – 19.5	--	11.18	0	24.74
P1-MW-19	7/16/2005	37.76	9.0 – 19.0	--	13.13	0	24.63
P1-MW-21	7/16/2005	37.29	7.0 – 17.0	--	9.65	0	27.64
P1-MW-22 [c]	7/16/2005	37.28	6.0 – 16.0	--	8.15	0	29.13
P1-MW-23	7/16/2005	37.75	7.0 – 17.0	--	8.90	0	28.85
Eighth Semiannual Sampling Event – January 2006							
D-MW-05R	1/15/2006	38.18	4.6 – 14.6	--	9.78	0	28.40
D-MW-06R	1/15/2006	37.79	4.8 – 14.8	--	9.35	0	28.44
P1-MW-01	1/15/2006	36.28	6.8 – 16.8	--	10.74	0	25.54
P1-MW-02	1/15/2006	37.34	7.0 – 17.0	--	10.16	0	27.18
P1-MW-03	1/15/2006	37.24	6.0 – 16.0	--	8.85	0	28.39
P1-MW-18	1/15/2006	35.92	9.5 – 19.5	--	11.60	0	24.32
P1-MW-19	1/15/2006	37.76	9.0 – 19.0	--	13.25	0	24.51
P1-MW-21	1/15/2006	37.29	7.0 – 17.0	--	10.47	0	26.82
P1-MW-22	1/15/2006	37.28	6.0 – 16.0	--	9.05	0	28.23
P1-MW-23	1/15/2006	37.75	7.0 – 17.0	--	9.91	0	27.84
Ninth Semiannual Sampling Event – July 2006							
D-MW-05R [b]	7/18/2006	38.18	4.6 – 14.6	--	10.75	0	27.43
D-MW-06R [c]	7/18/2006	37.79	4.8 – 14.8	--	10.15	0	27.64
P1-MW-01	7/18/2006	36.28	6.8 – 16.8	--	11.38	0	24.90
P1-MW-02 [b]	7/18/2006	37.34	7.0 – 17.0	11.07	11.09	0.02	26.27 [a]
P1-MW-03 [b]	7/18/2006	37.24	6.0 – 16.0	sheen	9.94	sheen	27.30
P1-MW-18	7/18/2006	35.92	9.5 – 19.5	--	11.69	0	24.23
P1-MW-19	7/18/2006	37.76	9.0 – 19.0	--	13.53	0	24.23
P1-MW-21	7/18/2006	37.29	7.0 – 17.0	--	11.47	0	25.82
P1-MW-22 [b]	7/18/2006	37.28	6.0 – 16.0	--	10.30	0	26.98
P1-MW-23	7/18/2006	37.75	7.0 – 17.0	--	10.65	0	27.10

*Source: Thirteenth Semiannual Monitoring Only Report Former Pumphouse #1, Release #2 (SAIC, 2009)

NOTES:

AMSL - Above mean sea level

BGS - Below ground surface

BTOC - Below top of casing

NR - Not recorded

a - The groundwater elevation was corrected using a density of 880 kg/m3 for the product.

b - The absorbent sock was placed or replaced in the well on the date of the measurements.

c - The absorbent sock was not placed in the well on the date of the measurements.

d - Wells D-MW-05 and D-MW-06 were destroyed in May 2002 when the tarmac was upgraded. These two wells were reinstalled in October 2002.

e - Science Applications International Corporation was not under contract to change out absorbent socks from August 2003 to May 2004.

Table 2-1
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well Number	Date of Measurement	Top of Casing Elevation (ft AMSL)	Screened Interval (ft BGS)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Groundwater Elevation (ft AMSL)
Performance Monitoring Event – October 2006							
D-MW-05R [b]	10/23/2006	38.18	4.6 – 14.6	--	11.31	0	26.87
D-MW-06R [c]	10/23/2006	37.79	4.8 – 14.8	10.65	10.68	0.03	27.14 [a]
P1-MW-02 [b]	10/23/2006	37.34	7.0 – 17.0	11.50	11.56	0.06	25.83 [a]
P1-MW-03 [b]	10/23/2006	37.24	6.0 – 16.0	10.51	10.54	0.03	26.73 [a]
P1-MW-18	10/23/2006	35.92	9.5 – 19.5	--	11.88	0	24.04
P1-MW-19	10/23/2006	37.76	9.0 – 19.0	--	13.70	0	24.06
P1-MW-21	10/23/2006	37.29	7.0 – 17.0	--	11.88	0	25.41
P1-MW-22 [b]	10/23/2006	37.28	6.0 – 16.0	10.35	11.86	0.01	26.43 [a]
Tenth Semiannual Sampling Event – January 2007							
D-MW-05R	1/17/2007	38.18	4.6 – 14.6	--	10.99	0	27.19
D-MW-06R	1/17/2007	37.79	4.8 – 14.8	--	10.41	0	27.38
P1-MW-01	1/17/2007	36.28	6.8 – 16.8	--	11.20	0	25.08
P1-MW-02 [b]	1/17/2007	37.34	7.0 – 17.0	10.87	11.05	0.18	26.45 [a]
P1-MW-03	1/17/2007	37.24	6.0 – 16.0	--	10.05	0	27.19
P1-MW-17	1/17/2007	35.78	6.0 – 16.0	--	9.07	0	26.71
P1-MW-18	1/17/2007	35.92	9.5 – 19.5	--	11.66	0	24.26
P1-MW-19	1/17/2007	37.76	9.0 – 19.0	--	13.50	0	24.26
P1-MW-20	1/17/2007	26.98	7.0 – 17.0	--	11.07	0	25.91
P1-MW-21	1/17/2007	37.29	7.0 – 17.0	--	11.28	0	26.01
P1-MW-22	1/17/2007	37.28	6.0 – 16.0	--	10.30	0	26.98
P1-MW-23	1/17/2007	37.75	7.0 – 17.0	--	10.68	0	27.07
P1-MW-24	1/17/2007	36.12	29.5 – 34.5	--	11.06	0	25.06
P1-MW-40	1/17/2007	37.30	3.8 – 33.8	--	10.19	0	27.11
Performance Monitoring Event – April 2007							
D-MW-05R	4/19/2007	38.18	4.6 – 14.6	--	11.14	0	27.04
D-MW-06R	4/19/2007	37.79	4.8 – 14.8	--	10.46	0	27.33
P1-MW-01	4/19/2007	36.28	6.8 – 16.8	--	11.48	0	24.80
P1-MW-02 [b]	4/19/2007	37.34	7.0 – 17.0	11.04	11.98	0.94	26.19 [a]
P1-MW-03	4/19/2007	37.24	6.0 – 16.0	--	10.31	0	26.93
P1-MW-17	4/19/2007	35.78	6.0 – 16.0	--	9.46	0	26.32
P1-MW-18	4/19/2007	35.92	9.5 – 19.5	--	11.77	0	24.15
P1-MW-19	4/19/2007	37.76	9.0 – 19.0	--	13.61	0	24.15
P1-MW-20	4/19/2007	36.98	7.0 – 17.0	--	11.41	0	25.57
P1-MW-21	4/19/2007	37.29	7.0 – 17.0	--	11.63	0	25.66
P1-MW-22	4/19/2007	37.28	6.0 – 16.0	--	10.60	0	26.68
P1-MW-23	4/19/2007	37.75	7.0 – 17.0	--	10.94	0	26.81
P1-MW-24	4/19/2007	36.12	29.5 – 34.5	--	11.22	0	24.90
P1-MW-40	4/19/2007	37.30	3.8 – 33.8	--	10.45	0	26.85

*Source: Thirteenth Semiannual Monitoring Only Report Former Pumphouse #1, Release #2 (SAIC, 2009)

NOTES:

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BTOC - Below top of casing

NR - Not recorded

a - The groundwater elevation was corrected using a density of 880 kg/m3 for the product.

b - The absorbent sock was placed or replaced in the well on the date of the measurements.

c - The absorbent sock was not placed in the well on the date of the measurements.

d - Wells D-MW-05 and D-MW-06 were destroyed in May 2002 when the tarmac was upgraded. These two wells were reinstalled in October 2002.

e - Science Applications International Corporation was not under contract to change out absorbent socks from August 2003 to May 2004.

Table 2-1
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well Number	Date of Measurement	Top of Casing Elevation (ft AMSL)	Screened Interval (ft BGS)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Groundwater Elevation (ft AMSL)
Eleventh Semiannual Monitoring Event and Vacuum Extraction Activities – July 2007							
D-MW-05R	7/13/2007	38.18	4.6 – 14.6	--	10.31	0	27.87
D-MW-06R	7/13/2007	37.79	4.8 – 14.8	sheen	9.83	sheen	27.96
P1-MW-01	7/13/2007	36.28	6.8 – 16.8	--	10.73	0	25.55
P1-MW-02	7/13/2007	37.34	7.0 – 17.0	--	10.27	0	27.07
P1-MW-03	7/13/2007	37.24	6.0 – 16.0	--	9.38	0	27.86
P1-MW-17	7/13/2007	35.78	6.0 – 16.0	--	8.18	0	27.60
P1-MW-18	7/13/2007	35.92	9.5 – 19.5	--	11.23	0	24.69
P1-MW-19	7/13/2007	37.76	9.0 – 19.0	--	13.12	0	24.64
P1-MW-20	7/13/2007	36.98	7.0 – 17.0	--	10.46	0	26.52
P1-MW-21	7/13/2007	37.29	7.0 – 17.0	--	10.64	0	26.65
P1-MW-22	7/13/2007	37.28	6.0 – 16.0	--	9.55	0	27.73
P1-MW-23	7/13/2007	37.75	7.0 – 17.0	--	10.06	0	27.69
P1-MW-24	7/13/2007	36.12	29.5 – 34.5	--	10.61	0	25.51
P1-MW-40	7/13/2007	37.30	3.8 – 33.8	--	9.50	0	27.80
Twelfth Semiannual Monitoring Event and Vacuum Extraction Activities – January 2008							
D-MW-05R	1/27/2008	38.18	4.6 – 14.6	--	9.80	0	28.38
D-MW-06R	1/27/2008	37.79	4.8 – 14.8	--	9.36	0	28.43
P1-MW-01	1/27/2008	36.28	6.8 – 16.8	--	10.21	0	26.07
P1-MW-02	1/27/2008	37.34	7.0 – 17.0	--	9.68	0	27.66
P1-MW-03	1/27/2008	37.24	6.0 – 16.0	--	8.82	0	28.42
P1-MW-17	1/27/2008	35.78	6.0 – 16.0	--	7.25	0	28.53
P1-MW-18	1/27/2008	35.92	9.5 – 19.5	--	10.87	0	25.05
P1-MW-19	1/27/2008	37.76	9.0 – 19.0	--	12.90	0	24.86
P1-MW-20	1/27/2008	36.98	7.0 – 17.0	--	9.93	0	27.05
P1-MW-21	1/27/2008	37.29	7.0 – 17.0	--	10.00	0	27.29
P1-MW-22	1/27/2008	37.28	6.0 – 16.0	--	8.98	0	28.30
P1-MW-23	1/27/2008	37.75	7.0 – 17.0	--	9.57	0	28.18
P1-MW-24	1/27/2008	36.12	29.5 – 34.5	--	10.09	0	26.03
P1-MW-40	1/27/2008	37.30	3.8 – 33.8	--	9.01	0	28.29

*Source: Thirteenth Semiannual Monitoring Only Report Former Pumphouse #1, Release #2 (SAIC, 2009)

NOTES:

AMSL - Above mean sea level

BGS - Below ground surface

BTOC - Below top of casing

NR - Not recorded

a - The groundwater elevation was corrected using a density of 880 kg/m3 for the product.

b - The absorbent sock was placed or replaced in the well on the date of the measurements.

c - The absorbent sock was not placed in the well on the date of the measurements.

d - Wells D-MW-05 and D-MW-06 were destroyed in May 2002 when the tarmac was upgraded. These two wells were reinstalled in October 2002.

e - Science Applications International Corporation was not under contract to change out absorbent socks from August 2003 to May 2004.

Table 2-1
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well Number	Date of Measurement	Top of Casing Elevation (ft AMSL)	Screened Interval (ft BGS)	Depth to Product (ft BTOC)	Depth to Water (ft BTOC)	Product Thickness (ft)	Groundwater Elevation (ft AMSL)
Thirteenth Semiannual Monitoring Event – July 2008							
D-MW-05R	7/16/2008	38.18	4.6 – 14.6	--	11.01	0	27.17
D-MW-06R	7/16/2008	37.79	4.8 – 14.8	--	10.36	0	27.43
P1-MW-01	7/16/2008	36.28	6.8 – 16.8	--	11.43	0	24.85
P1-MW-02	7/16/2008	37.34	7.0 – 17.0	11.20	11.22	0.02	26.14
P1-MW-03	7/16/2008	37.24	6.0 – 16.0	10.16	10.17	0.01	27.08
P1-MW-17	7/16/2008	35.78	6.0 – 16.0	--	9.40	0	26.38
P1-MW-18	7/16/2008	35.92	9.5 – 19.5	--	11.63	0	24.29
P1-MW-19	7/16/2008	37.76	9.0 – 19.0	--	13.55	0	24.21
P1-MW-20	7/16/2008	36.98	7.0 – 17.0	--	11.30	0	25.68
P1-MW-21	7/16/2008	37.29	7.0 – 17.0	--	11.57	0	25.72
P1-MW-22	7/16/2008	37.28	6.0 – 16.0	--	10.51	0	26.77
P1-MW-23	7/16/2008	37.75	7.0 – 17.0	--	10.84	0	26.91
P1-MW-24	7/16/2008	36.12	29.5 – 34.5	--	11.08	0	25.04
P1-MW-40	7/16/2008	37.30	3.8 – 33.8	--	10.33	0	26.97
Fourteenth Semiannual Monitoring Event – December 2008							
D-MW-05R	12/15/2008	38.18	4.6 – 14.6	--	10.03	0	28.15
D-MW-06R	12/15/2008	37.79	4.8 – 14.8	--	9.55	0	28.24
P1-MW-01	12/15/2008	36.28	6.8 – 16.8	--	10.69	0	25.59
P1-MW-02	12/15/2008	37.34	7.0 – 17.0	--	10.21	0	27.13
P1-MW-03	12/15/2008	37.24	6.0 – 16.0	--	9.14	0	28.10
P1-MW-17	12/15/2008	35.78	6.0 – 16.0	--	8.14	0	27.64
P1-MW-18	12/15/2008	35.92	9.5 – 19.5	--	11.19	0	24.73
P1-MW-19	12/15/2008	37.76	9.0 – 19.0	--	9.35	0	28.41
P1-MW-20	12/15/2008	36.98	7.0 – 17.0	--	10.49	0	26.49
P1-MW-21	12/15/2008	37.29	7.0 – 17.0	--	10.57	0	26.72
P1-MW-22	12/15/2008	37.28	6.0 – 16.0	--	9.38	0	27.90
P1-MW-23	12/15/2008	37.75	7.0 – 17.0	--	9.98	0	27.77
P1-MW-24	12/15/2008	36.12	29.5 – 34.5	--	10.43	0	25.69
P1-MW-40	12/15/2008	37.30	3.8 – 33.8	--	9.35	0	27.95

NOTES:
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NR - Not recorded
a - The groundwater elevation was corrected using a density of 880 kg/m3 for the product.
b - The absorbent sock was placed or replaced in the well on the date of the measurements.
c - The absorbent sock was not placed in the well on the date of the measurements.
d - Wells D-MW-05 and D-MW-06 were destroyed in May 2002 when the tarmac was upgraded. These two wells were reinstalled in October 2002.
e - Science Applications International Corporation was not under contract to change out absorbent socks from August 2003 to May 2004.

Table 2-2
Soil Analytical Results
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Sample Location	Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
Supplemental Investigation (Release #2) – January 2008							
P1-DB-01	AN0128	1/11/2008	4.0 – 5.6	0.0899 UJ	0.0899 UJ	0.0899 UJ	0.100 J
P1-DB-02	AN0229	1/11/2008	4.0 – 5.7	0.108 UJ	0.108 UJ	0.105 J	0.263 J
P1-DB-03	AN0329	1/12/2008	8.0 – 10.5	0.110 U	0.110 U	0.0807 J	0.524 =
P1-DB-04	AN0429	1/13/2008	8.0 – 9.2	0.48 J	41 =	19.9 =	84 =
P1-DB-05	AN0529	1/12/2008	5.5 – 7.0	0.235 J	13.1 J	3.33 J	13.6 J
P1-DB-06	AN0629	1/12/2008	4.0 – 6.4	0.801 =	42.3 =	17 =	59.3 =
P1-DB-07	AN0729	1/12/2008	5.3 – 6.6	0.124 U	1.75 =	7.48 =	30.2 =
P1-DB-08	AN0829	1/12/2008	5.3 – 6.6	0.0803 J	4.68 =	2.32 =	10.4 =
P1-DB-09	AN0929	1/13/2008	8.0 – 9.5	0.103 UJ	0.0312 J	0.103 UJ	0.0527 J
P1-DB-10	AN1029	1/13/2008	4.0 – 6.0	0.0569 J	0.0444 J	0.277 J	0.822 J
P1-DB-11	AN1129	1/13/2008	8.0 – 9.5	0.0679 J	0.116 UJ	0.173 J	1.5 J
P1-DB-12	AN1229	1/13/2008	5.5 – 7.0	0.297 UJ	5.63 J	9.93 J	44.1 J
P1-DB-13	AN1329	1/11/2008	5.6 – 7.2	0.127 UJ	0.847 J	0.465 J	1.97 J
P1-DB-14	AN1429	1/11/2008	8.0 – 10.4	0.118 UJ	0.228 J	1.08 J	4.11 J
P1-DB-15	AN1529	1/14/2008	8.0 – 9.8	0.620 U	44.4 =	25.2 =	122 =
P1-DB-16	AN1629	1/14/2008	5.5 – 7.0	1.14 U	11.7 =	13.9 =	134 =
P1-DB-17	AN1729	1/14/2008	5.7 – 7.4	0.602 U	8.47 =	17.5 =	107 =
P1-DB-18	AN1829	1/14/2008	4.0 – 5.6	0.110 UJ	0.719 J	0.206 J	1.07 J
P1-DB-19	AN1929	1/11/2008	4.0 – 5.6	0.142 J	8.26 J	1.34 J	5.17 J
P1-DB-20	AN2029	1/10/2008	5.7 – 7.4	2.74 R	125 J	66 J	370 J
P1-DB-21	AN2129	1/10/2008	5.6 – 7.3	0.247 UJ	16.7 J	9.1 J	48 J
P1-DB-22	AN2229	1/10/2008	4.0 – 5.7	0.111 UJ	3.48 J	2.28 J	14.1 J
P1-DB-23	AN2329	1/11/2008	8.0 – 9.9	0.646 J	124 J	41.9 J	159 =
P1-DB-24	AN2429	1/10/2008	6.0 – 8.0	0.122 UJ	2.64 J	3.33 J	21.9 J
P1-DB-25	AN2529	1/10/2008	8.0 – 9.6	0.00103 U	0.00103 U	0.00103 U	0.00103 U
P1-DB-26	AN2629	1/10/2008	8.0 – 10.5	0.0012 UJ	0.0012 UJ	0.0012 UJ	0.0012 UJ
P1-DB-27	AN2729	1/10/2008	6.0 – 8.0	0.119 UJ	0.203 J	2.31 J	24.8 J
P1-DB-28	AN2829	1/10/2008	8.0 – 10.0	0.228 UJ	0.0697 J	2.04 J	24.9 J
P1-DB-29	AN2929	1/10/2008	8.0 – 10.0	0.45 UJ	1.98 J	13 J	72.2 J
P1-DB-30	AN3029	1/9/2008	8.0 – 10.0	0.114 UJ	0.114 UJ	0.0802 J	1.1 J
P1-DB-31	AN3129	1/9/2008	8.0 – 10.2	0.109 UJ	0.109 UJ	0.544 J	6.06 J
P1-DB-32	AN3229	1/9/2008	9.6 – 10.7	0.00112 U	0.00112 U	0.000301 J	0.000687 J
P1-DB-33	AN3329	1/9/2008	10.0 – 12.0	0.11 U	0.11 U	0.111 =	1.98 =
P1-DB-34	AN3429	1/9/2008	9.5 – 11.0	0.46 UJ	11.6 J	15.2 J	79.1 J
P1-DB-35	AN3529	1/9/2008	11.0 – 12.0	0.108 UJ	0.108 UJ	0.226 J	1.38 J
Soil Threshold Levels (Table B, Column 1)				0.017	115	18	700
Alternate Threshold Levels				9.3	479	187	893

Source: Sixth Annual Monitoring Only Report (SAIC, 2008)

Notes:

Italics values exceed alternate threshold limits

mg/kg - miligram pre kilogram

Laboratory Qualifiers:

U - Indicates the compound was not detected at the concentration reported

J - Indicates the value of the compound is an estimated value

= - Indicates the compound was detected at the concentration reported

Table 2-3
Groundwater Analytical Results
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Sample Location	Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
Selected Wells from the Corrective Action Plan–Part A Investigation (Release #2) – 1996 [a]							
P1-MW-01	HT4-MW01	12/9/1996	**500 U**	**16,000 =**	1,900 =	9,500 =	27,400
P1-MW-02	HT4-MW02	12/9/1996	***1,100 =***	**25,000 =**	1,400 =	5,900 =	33,400
Selected Wells from the Corrective Action Plan–Part B Investigation (Release #2) – 1997 [a]							
P1-MW-18	MW1801	5/30/1997	4.2 J	57 =	19 =	110 =	190.2
P1-MW-19	MW1901	5/29/1997	***630 =***	1,900 =	530 =	2,400 =	5,460
P1-MW-22	MW2201	5/29/1997	**160 =**	80 J	200 =	6,200 =	6,660
P1-MW-23	MW2301	5/30/1997	**110 =**	62 =	180 =	1,100 =	1,452
Selected Wells from the Corrective Action Plan–Part B Investigation (Release #2) – 1999[a]							
D-MW-05	H833MW0502	11/3/1999	***3,400 =***	2,000 =	1,200 =	5,250 =	11,850
P1-MW-01	PH1MW0102	11/3/1999	17 J	**6,500 =**	1,800 =	10,000 =	16,800
P1-MW-02	PH1MW0202	11/3/1999	***1,000 =***	**19,000 =**	1,600 =	7,700 =	28,300
P1-MW-18	PH1MW1802	11/3/1999	25 U	530 =	370 =	1,650 =	2,300
P1-MW-19	PH1MW1902	11/3/1999	**200 =**	**6,400 =**	1,800 =	7,800 =	15,100
P1-MW-22	PH1MW2202	11/3/1999	**250 U**	250 U	150 J	8,300 =	8,250
P1-MW-23	PH1MW2302	11/3/1999	***330 =***	110 =	830 =	3,720 =	4,360
Selected Wells from the Corrective Action Plan–Part B Investigation (Release #2) – 2000 [a]							
D-MW-05	AK0512	2/23/2000	***4,580 =***	**6,860 =**	1,560 =	5,800 =	18,800
First Semiannual Monitoring Event (Release #2) – September 2001							
D-MW-05	AK0522	9/6/2001	***3,970 =***	**7,490 =**	1,390 =	5,040 =	17,890
D-MW-06	AK0622	9/6/2001	***428 =***	844 =	1,010 =	4,080 =	6,362
P1-MW-01	AN0122	9/6/2001	**200 U**	**7,930 =**	**2,120 =**	8,290 =	18,340
P1-MW-02	AN0222	9/6/2001	***932 =***	**21,200 =**	1,470 =	6,050 =	29,652
P1-MW-18	AN1822	9/6/2001	0.22 J	24.3 =	14.5 =	43.6 =	82.62
P1-MW-19	AN1922	9/6/2001	***832 =***	5,830 =	1,200 =	4,510 =	12,372
P1-MW-22	AN2222	9/6/2001	**91.9 =**	67.4 U	178 =	6,350 =	6,687.30
P1-MW-23	AN2322	9/6/2001	***661 =***	70.8 U	975 =	4,630 =	6,336.80
In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			51	5,980	2,100	NRC	NRC
Alternate Concentration Limit			285	800,000	114,800	—	—

Source: Sixth Annual Monitoring Only Report (SAIC, 2008)

Notes:

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Table 2-3
Groundwater Analytical Results
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Sample Location	Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
Second Semiannual Monitoring Event (Release #2) – March 2002							
D-MW-05	AK0532	3/15/2002	***3,380*** =	1,220 =	1,340 =	4,940 =	10,880
D-MW-06	AK0632	3/15/2002	***288*** =	421 =	705 =	2,850 =	4,264
P1-MW-01	AN0132	3/14/2002	2.5 =	1,910 =	1,900 =	9,440 =	13,252.50
P1-MW-02	AN0232	3/14/2002	***1,030*** =	**25,800 J**	1,440 =	5,620 =	33,890
P1-MW-18	AN1832	3/14/2002	1 U	38.2 =	30.0 =	118 =	186
P1-MW-19	AN1932	3/14/2002	***510*** =	5,410 =	972 =	3,710 =	10,602
P1-MW-22	AN2232	3/14/2002	**123** =	100 U	112 =	6,480 =	6,715
P1-MW-23	AN2332	3/14/2002	***510*** =	50 U	818 =	4,180 =	5,508
Third Semiannual Monitoring Event (Release #2) – January 2003							
D-MW-05R	AK0542	1/25/2003	***3,800*** =	**6,900** =	1,360 =	4,650 =	16,710
D-MW-06R	AK0642	1/25/2003	***342*** =	1,440 =	1,140 =	4,000 =	6,922
P1-MW-01	AN0142	1/25/2003	4.5 J	**7,830** =	**2,270** =	10,900 =	21,004.50
P1-MW-02	AN0242	1/25/2003	***714*** =	**19,700** =	1,640 =	6,820 =	28,874
P1-MW-18	AN1842	1/25/2003	1 U	36.5 =	61.3 =	169 =	266.8
P1-MW-19	AN1942	1/25/2003	***682*** =	1,510 =	988 =	4,130 =	7,310
P1-MW-22	AN2242	1/25/2003	**78.2** =	50 U	156 =	6,050 =	6,284.20
P1-MW-23	AN2342	1/25/2003	***709*** =	127 =	1,080 =	4,210 =	6,126
Fourth Semiannual Monitoring Event (Release #2) – June 2003							
D-MW-05R	AK0552	6/21/2003	***2,590*** =	1,530 =	881 =	3,300 =	8,301
D-MW-06R	AK0652	6/21/2003	***520*** =	137 =	1,260 =	3,830 =	5,747
P1-MW-01	AN0152	6/21/2003	**100 U**	**6,560** =	2,080 =	10,800 =	19,440
P1-MW-02	AN0252	6/21/2003	***1,020*** =	**26,200** =	1,990 =	7,760 =	36,970
P1-MW-18	AN1852	6/21/2003	2 U	85.9 =	157 =	446 =	688.9
P1-MW-19	AN1952	6/21/2003	***876*** =	2,230 =	1,470 =	5,180 =	9,756
P1-MW-22	AN2252	6/21/2003	**126** =	9 J	90.2 =	6,340 =	6,565.20
P1-MW-23	AN2352	6/21/2003	***542*** =	140 =	1,290 =	5,050 =	7,022
In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			51	5,980	2,100	NRC	NRC
Alternate Concentration Limit			285	800,000	114,800	---	---

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Former Building 8060
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Sample Location	Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
Fifth Semiannual Monitoring Event (Release #2) – July 2004							
D-MW-05R	AK0562	7/16/2004	***3,160*** =	1,020 =	925 =	4,630 =	9,735
D-MW-06R	AK0662	7/16/2004	**177** =	45 =	396 =	3,450 =	4,068
P1-MW-01	AN0162	7/16/2004	5.6 =	4,180 =	1,800 =	8,910 =	14,895
P1-MW-02	AN0262	7/16/2004	***654*** =	**22,000** =	2,030 =	8,040 =	32,724
P1-MW-18	AN1862	7/16/2004	1 U	74.1 =	110 =	370 =	554.1
P1-MW-19	AN1962	7/16/2004	***571*** =	**6,170** =	1,630 =	6,390 =	14,761
P1-MW-22	AN2262	7/16/2004	40.7 =	39.1 U	85.7 =	5,400 =	5,565.50
P1-MW-23	AN2362	7/16/2004	***360*** =	24.0 =	544 =	3,400 =	4,328
Sixth Semiannual Monitoring Event (Release #2) – January 2005							
D-MW-05R	AK0572	1/14/2005	***1,810 J***	164 J	688 J	3,240 J	5,902
D-MW-06R	AK0672	1/14/2005	**222 J**	183 J	657 J	3,360 J	4,422
P1-MW-01	AN0172	1/14/2005	6.4 =	4,220 J	1,420 J	6,690 J	12,336.40
P1-MW-02	AN0272	1/14/2005	***762 J***	**19,200 J**	1,420 J	5,630 J	27,012
P1-MW-18	AN187	1/14/2005	2.8 J	141 J	42.5 J	147 J	333.3
P1-MW-19	AN1972	1/14/2005	***402 J***	1,320 J	1,040 J	3,800 J	6,562
P1-MW-22	AN2272	1/14/2005	**52.8** =	12.5 U	82.5 J	8,430 J	8,565.30
P1-MW-23	AN2372	1/15/2004	***660*** =	38.9 =	694 =	3,240 =	4,632.90
Seventh Semiannual Monitoring Event (Release #2) – July 2005							
D-MW-05R	AK0582	7/16/2005	***3,360*** =	734 =	893 =	4,030 =	9,017
D-MW-06R	AK0682	7/16/2005	***289*** =	159 U	545 =	3,430 =	4,264
P1-MW-01	AN0182	7/16/2005	4.2 =	3,140 =	1,990 =	11,100 =	16,234.20
P1-MW-02	AN0282	7/16/2005	***724*** =	**19,300** =	1,590 =	6,770 =	28,384
P1-MW-18	AN1882	7/16/2005	1 U	18.3 =	38.8 =	118 =	175.1
P1-MW-19	AN1982	7/16/2005	***500*** =	1,790 =	1,540 =	5,830 =	9,660
P1-MW-22	AN2282	7/16/2005	43.7 =	28.0 U	61.3 =	2,700 =	2,805
P1-MW-23	AN2382	7/16/2005	**129** =	31.0 U	474 =	1,750 =	2,353
In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			51	5,980	2,100	NRC	NRC
Alternate Concentration Limit			285	800,000	114,800	----	----

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Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Sample Location	Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
Eighth Semiannual Monitoring Event (Release #2) – January 2006							
D-MW-05R	AK0592	1/16/2006	***3,060*** =	369 =	918 =	4,380 =	8,727
D-MW-06R	AK0692	1/16/2006	***315*** =	67.5 =	880 =	5,220 =	6,482.50
P1-MW-01	AN0192	1/16/2006	4 =	3,250 =	2,030 =	11,100 =	16,384
P1-MW-02	AN0292	1/16/2006	***943*** =	**20,300** =	**2,400** =	10,800 =	34,443
P1-MW-18	AN1892	1/16/2006	1 U	9.6 =	22.8 =	75.8 =	108.2
P1-MW-19	AN1992	1/16/2006	***333*** =	2,590 =	1,890 =	7,850 =	12,663
P1-MW-22	AN2292	1/16/2006	**57.5** =	10.7 =	65.1 =	5,250 =	5,383.30
P1-MW-23	AN2392	1/16/2006	***442*** =	35.9 =	875 =	4,580 =	6,032.90
Ninth Semiannual Monitoring Event (Release #2) – July 2006							
D-MW-05R	AK0502	7/20/2006	***3,480*** =	155 =	995 =	4,260 =	8,890
D-MW-06R	AK0602	7/20/2006	**129** =	56.8 U	735 =	4,130 =	5,050
P1-MW-01	AN0102	7/20/2006	20 U	2,690 =	1,880 =	8,580 =	13,150
P1-MW-02	AN0202	7/20/2006	***970*** =	**24,500** =	1,880 =	7,770 =	35,120
P1-MW-18	AN1802	7/20/2006	1 U	10.3 =	13.9 =	54.7 =	78.9
P1-MW-19	AN1902	7/20/2006	***371*** =	3,220 =	1,810 =	7,130 =	12,531
P1-MW-21	AN2102	7/20/2006	**64.4** =	182 =	377 =	991 =	1,614.40
P1-MW-22	AN2202	7/20/2006	**58.7** =	20 U	74.2 =	5,530 =	5,662.90
P1-MW-23	AN2302	7/20/2006	***527*** =	27.9 U	754 =	4,410 =	5691
P1-J1	AN0118	7/20/2006	**69.5** =	292 =	1,040 =	5,060 =	6,461.50
P1-J2	AN0218	7/20/2006	**268** =	3,230 =	1,430 =	5,860 =	10,788
P1-J3	AN0318	7/20/2006	***900*** =	**17,600** =	1,570 =	6,670 =	26,740
P1-J4	AN0418	7/20/2006	***729*** =	**10,700** =	1,390 =	5,190 =	18,009
P1-J5	AN0518	7/20/2006	***601*** =	**15,000** =	1,620 =	6,870 =	24,091
P1-J6	AN0618	7/20/2006	**114** =	1,900 =	967 =	3,040 =	6,021
Performance Monitoring Event – October 2006							
D-MW-05R	AK05A2	10/23/2006	***3,900*** =	357 =	1,370 =	5,610 =	11,137
P1-MW-02	AN02A2	10/23/2006	***622*** =	**22,800** =	2,060 =	8,230 =	33,712
P1-MW-21	AN21A2	10/23/2006	**56.8** =	2,240 =	486 =	1,320 =	4,102.80
P1-MW-22	AN22A2	10/23/2006	**58.1** =	15.2 J	77.6 =	7,000 =	7,150.90
In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			51	5,980	2,100	NRC	NRC
Alternate Concentration Limit			285	800,000	114,800	----	----

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Tenth Semiannual Monitoring Event (Release #2) – January 2007							
D-MW-05R	AK05B2	1/17/2007	***3,900*** =	1,080 =	1,260 =	5,540 =	11,780
D-MW-06R	AK06B2	1/17/2007	37.5 =	47.8 =	573 =	3,790 =	4,448.30
P1-MW-01	AN01B2	1/17/2007	6.56 =	2,090 =	1,570 =	7,530 =	11,196.56
P1-MW-02	AN02B2	1/22/2007	***1,070*** =	**19,600 J**	1,600 =	6,240 =	28,510
P1-MW-18	AN18B2	1/17/2007	1 U	10.8 =	44 =	150 =	204.8
P1-MW-19	AN19B2	1/17/2007	***376*** =	2,710 =	1,860 =	7,000 =	11,946
P1-MW-21	AN21B2	1/22/2007	3.23 =	5.56 =	226 =	663 =	897.79
P1-MW-22	AN22B2	1/17/2007	35.5 =	12.5 =	55.1 =	2,000 =	2,103.10
P1-MW-23	AN23B2	1/17/2007	**88.6** =	9.18 J	189 =	1,530 =	1,816.70
P1-J1	ANJ128	1/17/2007	**59.7** =	138 =	707 =	2,530 =	3,434.70
P1-J2	ANJ228	1/17/2007	**245** =	1,480 =	1,420 =	5,860 =	9,005
P1-CPT-09	AP0928	1/23/2007	***785*** =	**23,400** =	1,540 =	6,660 =	32,385
P1-J4	ANJ428	1/22/2007	***1,160*** =	**20,800** =	1,600 =	6,230 =	29,790
P1-J5	ANJ528	1/17/2007	***379*** =	**14,100** =	1,590 =	6,040 =	22,109
P1-J6	ANJ628	1/22/2007	**68** =	248 =	326 =	514 =	1,156
Performance Monitoring Event – April 2007							
D-MW-05R	AK05C2	4/21/2007	***3,870 J***	292 =	1,320 J	4,190 =	9,672
P1-MW-02	AN02C2	4/21/2007	***525*** =	**17,800** =	1,780 =	6,380 =	26,485
P1-MW-21	AN21C2	4/21/2007	2.14 =	6.35 =	334 =	401 =	743.49
P1-MW-22	AN22C2	4/21/2007	26.5 =	3 =	51.4 =	4,580 =	4,660.90
Eleventh Semiannual Monitoring Event (Release #2) – July 2007							
D-MW-05R	AK05D2	7/14/2007	***2,520 J***	189 J	692 J	3,800 J	7201
D-MW-06R	AK06D2	7/13/2007	49.5 =	18.8 J	371 =	3,070 =	3509.3
P1-MW-01	AN01D2	7/13/2007	7.77 =	962 J	683 J	3,650 J	5302.77
P1-MW-02	AN02D2	7/19/2007	**163** =	**6,380** =	997 =	4,020 =	11560
P1-MW-03	AN03D2	7/15/2007	**184 J**	1,260 J	843 J	5,990 J	8277
In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			51	5,980	2,100	NRC	NRC
Alternate Concentration Limit			285	800,000	114,800	—	—

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Eleventh Semiannual Monitoring Event (Release #2) – July 2007							
P1-MW-17	AN17D2	7/15/2007	1 U	1 U	1 U	1.52 =	1.52
P1-MW-18	AN18D2	7/15/2007	2 U	38.6 =	55.7 =	331 =	425.3
P1-MW-19	AN19D2	7/14/2007	***452*** =	4,050 =	1750 =	6,910 =	13162
P1-MW-20	AN20D2	7/15/2007	0.319 J	1.18 U	0.301 J	2.52 =	3.14
P1-MW-22	AN22D2	7/14/2007	18.1 =	12.7 U	60.5 =	3,000 =	3078.6
P1-MW-23	AN23D2	7/14/2007	27.5 =	5.74 =	175 =	896 =	1104.24
P1-MW-36	AN36D2	7/15/2007	1 U	1 U	1 U	0.374 J	0.374
P1-MW-40	AN40D2	7/15/2007	17.2 =	1.46 U	4.37 =	48.4 =	69.97
P1-CPT-07	AP0738	7/15/2007	***728 J***	1,770 J	560 J	2,110 J	5168
P1-CPT-17	AP1738	7/15/2007	***906*** =	**12,000** =	579 =	2,700 =	16185
P1-CPT-19	AP1938	7/15/2007	***1,830*** =	3,910 =	298 =	2,270 =	8308
P1-CPT-22	AP2238	7/15/2007	***471*** =	989 =	186 =	1,310 =	2956
P1-SWS-11	AN1119	7/19/2007	***357*** =	**11,900** =	1,640 =	8,990 =	8308
P1-SWS-12	AN1219	7/19/2007	***0.457 J*** =	1 U	0.255 J	4.25 =	2956
Twelfth Semiannual Monitoring Event (Release #2) – January 2008							
D-MW-05R	AK05E2	1/28/2008	***3,760*** =	148 =	596 =	4,460 =	8,964
D-MW-06R	AK06E2	1/28/2008	**109** =	49.6 =	657 =	3,920 =	4,735.60
P1-MW-01	AN01E2	1/28/2008	2.14 =	1,590 =	1,580 =	9,680 =	12,852
P1-MW-02	AN02E2	1/28/2008	***457*** =	**13,800** =	1,450 =	6,050 =	21,757
P1-MW-19	AN19E2	1/28/2008	***461*** =	1,620 =	1,380 =	5,640 =	9,101
P1-MW-21	AN21E2	1/28/2008	0.567 J	9.45 U	361 =	811 =	1172
P1-MW-22	AN22E2	1/28/2008	32.6 =	6.81 U	28.1 =	2,190 =	2,250.70
P1-MW-23	AN23E2	1/28/2008	**72.1** =	36.9 =	495 =	1,940 =	2,544
Supplemental Investigation (Release #2) – January 2008							
P1-DB-01	AN0128	1/11/2008	20.7 =	22.8 =	7.95 =	96.1 =	147.55
P1-DB-02	AN0228	1/11/2008	16.7 =	14.2 =	27.4 =	94 =	152.3
P1-DB-03	AN0328	1/12/2008	15.2 =	5.88 =	189 =	815 =	1,025.08
P1-DB-04	AN0428	1/13/2008	***514*** =	4,420 J	937 =	3,330 =	9,201
P1-DB-05	AN0528	1/12/2008	***1,910*** =	**11,200** =	752 =	2,700 =	16,562
P1-DB-06	AN0628	1/12/2008	***2,200*** =	1,860 =	1,190 =	4,170 =	9,420
P1-DB-07	AN0728	1/12/2008	***333*** =	1,070 =	363 =	1,070 =	2,836
P1-DB-08	AN0828	1/12/2008	***588*** =	556 =	1,210 =	4,570 =	6,924
P1-DB-09	AN0928	1/13/2008	1 U	3.71 =	1.2 =	4.48 =	9.39
In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			51	5,980	2,100	NRC	NRC
Alternate Concentration Limit			285	800,000	114,800	—	—

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Supplemental Investigation (Release #2) – January 2008							
P1-DB-10	AN1028	1/13/2008	**280 =**	1,060 J	721 =	2,390 =	4,451
P1-DB-11	AN1128	1/13/2008	5.01 J	0.656 J	9.03 J	10.2 J	24.896
P1-DB-12	AN1228	1/13/2008	**280 =**	915 =	1,550 J	4,540 =	7,285
P1-DB-13	AN1328	1/11/2008	***1,210 =***	**14,300 =**	1,160 =	3,820 =	20,490
P1-DB-14	AN1428	1/11/2008	**116 =**	84.9 =	612 =	1,830 =	2,642.90
P1-DB-15	AN1528	1/14/2008	7.06 =	2,030 =	858 =	4,460 =	7,355.06
P1-DB-16	AN1628	1/14/2008	9.13 =	297 =	384 =	2,040 =	2,730.13
P1-DB-17	AN1728	1/14/2008	5.51 =	1,020 =	1,210 =	6,980 =	9,215.51
P1-DB-18	AN1828	1/14/2008	***810 =***	**25,400 =**	1,480 =	5,650 =	33,340
P1-DB-19	AN1928	1/11/2008	***463 =***	**6,440 =**	1,230 =	4,130 =	12,263
P1-DB-20	AN2028	1/10/2008	**63 =**	**12,200 =**	1,360 =	5,470 =	19,093
P1-DB-21	AN2128	1/10/2008	**188 =**	**8,930 =**	1,020 =	4,410 =	14,548
P1-DB-22	AN2228	1/10/2008	***915 =***	**19,800 =**	1,380 =	6,030 =	28,125
P1-DB-23	AN2328	1/11/2008	***1,160 =***	**22,100 =**	1,180 =	3,990 =	28,430
P1-DB-24	AN2428	1/10/2008	40.1 =	**11,700 =**	1,420 =	5,670 =	18,830.10
P1-DB-25	AN2528	1/10/2008	2.08 =	4.15 =	9.01 =	8.63 =	23.87
P1-DB-26	AN2628	1/10/2008	1.71 =	11.5 =	54.1 J	191 J	258.31
P1-DB-27	AN2728	1/10/2008	0.424 J	163 =	227 =	1,500 =	1,890.42
P1-DB-28	AN2828	1/10/2008	**120 =**	5,020 =	1,520 =	7,990 =	14,650
P1-DB-29	AN2928	1/10/2008	28.6 =	2,510 =	1,070 =	4,910 =	8,518.60
P1-DB-30	AN3028	1/9/2008	2.21 =	2,500 =	1,630 =	8,640 =	12,772.21
P1-DB-31	AN3128	1/9/2008	25.5 =	3,130 =	1,570 =	8,630 =	13,355.50
P1-DB-32	AN3228	1/9/2008	7.18 =	1,500 =	1,380 =	5,840 =	8,727.18
P1-DB-33	AN3328	1/9/2008	2.7 =	2,520 =	884 =	5,000 =	8,406.70
P1-DB-34	AN3428	1/9/2008	1 U	1,670 =	1,630 =	8,210 =	11,510
P1-DB-35	AN3528	1/9/2008	***598 =***	**11,700 =**	1,470 =	6,000 =	19,768
In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			51	5,980	2,100	NRC	NRC
Alternate Concentration Limit			285	800,000	114,800	—	—

Source: Sixth Annual Monitoring Only Report (SAIC, 2008)

Notes:

Bold values exceed IWQS

Italics values exceed alternate threshold limits

ug/L - microgram per Liter

BTEX - Benzene, toulene, ethylbenzene, and xylenes

NRC - No regulatory Criteria

Laboratory Qualifiers:

U - Indicates the compound was not detected at the concentration reported

J - Indicates the value of the compound is an estimated value

= - Indicates the compound was detected at the concentration reported

Table 2-3
Groundwater Analytical Results
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Sample Location	Sample ID	Date Sampled	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)
Thirteenth Semiannual Monitoring Event (Release #2) – July 2008							
D-MW-05R	AK05F2	7/16/2008	***2,090=***	65.1=	568=	3,110=	5,833
D-MW-06R	AK06F2	7/16/2008	44.4=	28.2=	890=	4,280=	5,242.6
P1-MW-01	AN01F2	7/16/2008	6.02=	1,330=	2,000=	9,080=	12,416.02
P1-MW-02	AN02F2	7/16/2008	***614=***	**17,200=**	**2,200=**	8,970=	29,004
P1-MW-19	AN19F2	7/16/2008	***518=***	1,490=	1,630=	6,630=	10,268
P1-MW-21	AN21F2	1/28/2008	2.98=	1.37=	249=	622=	875.35
P1-MW-22	AN22F2	7/16/2008	24.6=	7.32=	77.8=	4,650=	4,759.72
P1-MW-23	AN23F2	7/16/2008	**71=**	10.6=	144=	1,280=	1,505.6
Fourteenth Semiannual Monitoring Event (Release #2) – December 2008							
D-MW-05R	D-MW-05R (121708)	12/17/2008	***1,700***	74	290	1,800 J	3,864
D-MW-06R	D-MW-06R (121708)	12/17/2008	**84**	34	510	2,500 J	3,128
P1-MW-01	P1-MW-01 (121708)	12/17/2008	10 U	1,100	1,700	8,600 J	11,400
P1-MW-02	P1-MW-02 (121708)	12/17/2008	***520***	**16,000**	1,700	6,900 J	25,120
P1-MW-18	P1-MW-18 (121708)	12/17/2008	0.5 U	1.2	7.7	13 J	22
P1-MW-19	P1-MW-19 (121708)	12/17/2008	***420***	1,300	1,700	6,500 J	9,920
P1-MW-22	P1-MW-22 (121708)	12/17/2008	29	18	95	3,900 J	4,042
P1-MW-23	P1-MW-23 (121708)	12/17/2008	**88**	17	180	1,500 J	1,785
P1-SWS-11	P1-SWS-11 (121808)	12/18/2008	24	51	26	370	471
P1-SWS-12	P1-SWS-12 (121808)	12/18/2008	2.4	16	33	88	139
In-Stream Water Quality Standard (GA EPD Chapter 391-3-6)			51	5,980	2,100	NRC	NRC
Alternate Concentration Limit			285	800,000	114,800	—	—

Notes:

Bold values exceed IWQS

Italics values exceed alternate threshold limits

ug/L - microgram per Liter

BTEX - Benzene, toulene, ethylbenzene, and xylenes

NRC - No regulatory Criteria

Laboratory Qualifiers:

U - Indicates the compound was not detected at the concentration reported

J - Indicates the value of the compound is an estimated value

= - Indicates the compound was detected at the concentration reported

Table 2-4
Field Parameters in Monitor Wells - December 2008
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Sample ID	Turbidity (NTUs)	pH (SU)	Conductivity (uS/cm)	Temp. (°C)	DO (mg/L)
D-MW5R	5.89	5.55	156	23.57	0.67
D-MW6R	1.93	5.32	128	23.8	0.36
P1-MW1	1.24	4.72	64	21.84	0.32
P1-MW2	2.29	4.44	52	20.93	0.72
P1-MW18	1.38	4.68	31	23.33	0.34
P1-MW19	1.26	4.61	45	22.99	0.43
P1-MW22	24.1	5.67	224	21.22	0.39
P1-MW23	1.32	4.96	72	24.53	0.36
P1-SWS-11	--	4.2	50	17.91	1.77
P1-SWS-12	--	3.62	49	18.92	1.52

Notes:
NTU - Nephelometric Turbidity Units
SU - Standard Unit
mg/L - milligram per Liter
uS/cm - microsiemens per centimeter

Table 2-5
Summary of Enhanced Fluid Recovery
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Date	Initial Product Level (ft BGS)	Initial Water Level (ft BGS)	Product Thickness (ft)	Final Product Level (ft BGS)	Final Water Level (ft BGS)	Product Removed (~gal)	Total Volume Removed (~gal)
Former Pumphouse #1 Tank Pit Area (Release #2) – June 2005								
D-MW-05R	6/17/2005	--	9.2	0	--	9.2	none	25
D-MW-06R	6/17/2005	--	8.81	0	--	8.81	none	25
P1-MW-01	6/17/2005	--	10.48	0	--	dry	none	2
P1-MW-02	6/17/2005	--	9.45	0	--	9.45	none	7
P1-MW-03	6/17/2005	--	8.13	0	--	8.13	none	trace
P1-MW-21	6/17/2005	--	9.91	0	--	dry	none	15
P1-MW-22	6/17/2005	--	8.37	0	--	8.37	none	15
P1-CPT-2	6/17/2005	--	8.01	0	--	8.01	none	trace
P1-CPT-3	6/17/2005	--	dry	0	--	dry	none	0
P1-CPT-7	6/17/2005	--	9.3	0	--	9.3	none	5
P1-CPT-8	6/17/2005	--	dry	0	--	dry	none	0
P1-CPT-11	6/17/2005	--	dry	0	--	dry	none	0
P1-CPT-17	6/17/2005	--	9.63	0	--	dry	none	7
P1-CPT-18	6/17/2005	--	9.68	0	--	dry	none	3
							Total Volume Removed (gal)	104
Former Pumphouse #1 Tank Pit Area (Release #2) – August 2005								
D-MW-05R	8/24/2005	--	9.61	0	--	9.15	sheen	25
D-MW-06R	8/24/2005	--	9.19	0	--	9.02	sheen	40
P1-MW-01	8/25/2005	--	10.98	0	--	10.76	sheen	30
P1-MW-02	8/25/2005	--	10.17	0	--	10.15	sheen	50
P1-MW-03	8/25/2005	--	8.71	0	--	8.89	sheen	50
P1-MW-21	8/25/2005	--	10.7	0	--	10.45	sheen	30
P1-MW-22	8/25/2005	--	9.15	0	--	dry	sheen	55
P1-CPT-2	8/25/2005	--	dry	0	--	8.71	sheen	20
P1-CPT-3	8/24/2005	--	7.02	0	--	dry	none	0
P1-CPT-7	8/25/2005	--	9.94	0	--	9.25	none	10
P1-CPT-8	8/24/2005	--	8.15	0	--	dry	none	0
P1-CPT-11	8/25/2005	--	dry	0	--	dry	none	<1
P1-CPT-17	8/25/2005	--	10.36	0	--	9.1	sheen	5
P1-CPT-18	8/25/2005	--	9.31	0	--	9.55	sheen	10
							Total Volume Removed (gal)	326

Notes:
ft - feet
bgs - below ground surface
gal - gallons

Table 2-5
Summary of Enhanced Fluid Recovery
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Date	Initial Product Level (ft BGS)	Initial Water Level (ft BGS)	Product Thickness (ft)	Final Product Level (ft BGS)	Final Water Level (ft BGS)	Product Removed (~gal)	Total Volume Removed (~gal)
Former Pumphouse #1 Tank Pit Area (Release #2) – October 2005								
D-MW-05R	10/13/2005	--	9.16	0	--	9.47	sheen	55
D-MW-06R	10/13/2005	--	8.87	0	--	6.16	sheen	55
P1-MW-01	10/13/2005	--	9.57	0	--	9.7	sheen	55
P1-MW-02	10/13/2005	--	8.71	0	--	9.04	sheen	55
P1-MW-03	10/12/2005	8.05	8.05	sheen	8.29	8.29	sheen	60
P1-MW-21	10/13/2005	--	9.07	0	--	9.42	sheen	55
P1-MW-22	10/13/2005	8	8	sheen	8.37	8.37	sheen	55
P1-CPT-2	--	7.8	7.8	sheen	8.21	8.21	sheen	55
P1-CPT-3	--	--	7.26	0	--	6.05	none	0
P1-CPT-7	--	--	8.36	0	--	8.55	sheen	35
P1-CPT-8	--	--	8.18	0	--	8.06	sheen	1
P1-CPT-11	--	--	dry	--	--	9.05	0.25	2
P1-CPT-17	--	--	8.77	0	8.69	8.69	0.25	10
P1-CPT-18	--	--	8.85	0	--	8.98	0.35	35
							Total Volume Removed (gal):	528
Former Pumphouse #1 Tank Pit Area (Release #2) – January 2006								
D-MW-05R	1/11/2006	--	9.71	0	--	--	--	--
D-MW-06R	1/11/2006	--	9.25	0	--	--	--	--
P1-MW-01	1/11/2006	--	10.61	0	--	--	--	--
P1-MW-02	1/11/2006	9.91	9.91	sheen	--	--	--	--
P1-MW-03	1/11/2006	--	8.75	0	--	--	--	--
P1-MW-21	1/11/2006	--	10.32	0	--	--	--	--
P1-MW-22	1/11/2006	--	9.02	0	--	--	--	--
P1-CPT-2	1/11/2006	--	8.63	0	--	--	--	--
P1-CPT-3	1/11/2006	--	dry	0	--	--	--	--
P1-CPT-7	1/11/2006	--	9.83	0	--	--	--	--
P1-CPT-8	1/11/2006	--	dry	0	--	--	--	--
P1-CPT-11	1/11/2006	--	dry	0	--	--	--	--
P1-CPT-17	1/11/2006	--	10.06	0	--	--	--	--
P1-CPT-18	1/11/2006	10.11	10.11	sheen	--	--	--	--
							Total Volume Removed (gal):	0

Notes:
ft - feet
bgs - below ground surface
gal - gallons

Table 2-5
Summary of Enhanced Fluid Recovery
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Date	Initial Product Level (ft BGS)	Initial Water Level (ft BGS)	Product Thickness (ft)	Final Product Level (ft BGS)	Final Water Level (ft BGS)	Product Removed (~gal)	Total Volume Removed (~gal)
Former Pumphouse #1 Tank Pit Area (Release #2) – April 2006								
D-MW-05R	4/19/2006	--	10.18	0	--	NS	none	none
D-MW-06R	4/19/2006	--	9.63	0	--	NS	none	none
P1-MW-01	4/19/2006	--	11.04	0	--	NS	none	none
P1-MW-02	4/19/2006	--	10.56	0	--	NS	none	none
P1-MW-03	4/19/2006	--	9.35	0	--	NS	none	none
P1-MW-21	4/19/2006	--	10.98	0	--	NS	none	none
P1-MW-22	4/19/2006	--	9.61	0	--	NS	none	none
P1-CPT-2	4/19/2006	--	9.23	0	--	NS	none	none
P1-CPT-3	4/19/2006	--	Dry	0	--	NS	none	none
P1-CPT-7	4/19/2006	--	10.15	0	--	NS	none	none
P1-CPT-8	4/19/2006	--	8.05	0	--	NS	none	none
P1-CPT-11	4/19/2006	--	dry	0	--	NS	none	none
P1-CPT-17	4/19/2006	--	10.64	0	--	NS	none	none
P1-CPT-18	4/19/2006	--	dry	0	--	NS	none	none
							Total Volume Removed (gal)	0
Former Pumphouse #1 Tank Pit Area (Release #2) – July 2006								
D-MW-05R	7/17/2006	--	10.75	0	--	NS	--	--
D-MW-06R	7/17/2006	--	10.15	sheen	--	NS	--	--
P1-MW-01	7/17/2006	--	11.38	0	--	NS	--	--
P1-MW-02 b	07/17/06	11.07	11.09	0.02	11.42	11.44	--	1,000
P1-MW-03	7/17/2006	--	9.94	sheen	--	NS	--	--
P1-MW-21	7/17/2006	--	11.47	0	--	NS	--	--
P1-MW-22	7/17/2006	--	10.3	0	--	NS	--	--
P1-CPT-2	7/17/2006	--	9.81	0	--	NS	--	--
P1-CPT-3	7/17/2006	--	7.43	0	--	NS	--	--
P1-CPT-7	7/17/2006	--	10.66	0	--	NS	--	--
P1-CPT-8	7/17/2006	--	dry	0	--	NS	--	--
P1-CPT-11	7/17/2006	--	dry	0	--	NS	--	--
P1-CPT-17	7/17/2006	--	11.05	0	--	NS	--	--
P1-CPT-18	7/17/2006	--	dry	0	--	NS	--	--
							Total Volume Removed (gal)	1,000

Notes:
ft - feet
bgs - below ground surface
gal - gallons
a - Vacuum activities changed to four wells for 8 hours, well selection based on product measurements
b - Pumped for 8 hours

Table 2-5
Summary of Enhanced Fluid Recovery
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Date	Initial Product Level (ft BGS)	Initial Water Level (ft BGS)	Product Thickness (ft)	Final Product Level (ft BGS)	Final Water Level (ft BGS)	Hydrocarbons Removed (equiv. gal)	Total Volume Removed (~gal)
Former Pumphouse #1 Tank Pit Area (Release #2) – April 2007								
D-MW-05R	4/19/2007		11.14	0				
D-MW-06R	4/19/2007		10.06	0				
P1-MW-01	4/19/2007		11.48	0				
P1-MW-02 b	04/19/07	11.04	11.98	0.94		12.55	56	2749
P1-MW-03	4/19/2007		10.31	0				
P1-MW-21	4/19/2007		11.63	0				
P1-MW-22	4/19/2007		10.6	0				
P1-CPT-2	4/19/2007		10.17	0				
P1-CPT-3	4/19/2007	dry	dry	dry				
P1-CPT-7	4/19/2007		10.77	0				
P1-CPT-8	4/19/2007	dry	dry	dry				
P1-CPT-11	4/19/2007	dry	dry	dry				
P1-CPT-17	4/19/2007		11.28	0				
P1-CPT-18	4/19/2007	dry	dry	dry				
Total Volume Removed (gal)								2749
Former Pumphouse #1 Tank Pit Area (Release #2) – July 2007								
D-MW-05R	7/13/2007		10.31	0				
D-MW-06R	7/13/2007	sheen	9.83	sheen				
P1-MW-01	7/13/2007		10.73	0				
P1-MW-02	7/13/2007		10.27	0				
P1-MW-03	7/13/2007		9.38	0				
P1-MW-18	7/13/2007		11.23	0				
P1-MW-21	7/13/2007		10.64	0				
P1-MW-22	7/13/2007		9.55	0				
P1-CPT-2	7/13/2007		9.24	0				
P1-CPT-3	7/13/2007		6.3	0				
P1-CPT-7	7/13/2007		9.63	0				
P1-CPT-8	7/13/2007		Dry	0				
P1-CPT-11	7/13/2007		Dry	0				
P1-CPT-17	7/13/2007		10.3	0				
P1-CPT-18	7/13/2007		10.4	0				
Total Volume Removed (gal)								0 b

Notes:
ft - feet
bgs - below ground surface
gal - gallons
a - Well selection for EFR activities are based on product measurements
b - Vacuum activities were not conducted in any wells associated with the tank pit area (Release #2)

Table 2-5
Summary of Enhanced Fluid Recovery
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Well ID	Date	Initial Product Level (ft BGS)	Initial Water Level (ft BGS)	Product Thickness (ft)	Final Product Level (ft BGS)	Final Water Level (ft BGS)	Hydrocarbons Removed (equiv. gal)	Total Volume Removed (~gal)
Former Pumphouse #1 Tank Pit Area (Release #2) – October 2007								
D-MW-05R	10/9/2007		9.24					
D-MW-06R	10/9/2007		8..94					
P1-MW-01	10/9/2007		10.48					
P1-MW-02 b	10/09/07	9.41	9.42	0.01		10.22	34	2685
P1-MW-03	10/9/2007		8					
P1-MW-18	10/9/2007		11.22					
P1-MW-21	10/9/2007		10.14					
P1-MW-22	10/9/2007		8.31					
P1-CPT-2	10/9/2007		7.99					
P1-CPT-3	10/9/2007		7.35					
P1-CPT-5	10/9/2007		9.15					
P1-CPT-7	10/9/2007		8.88					
P1-CPT-8	10/9/2007		7.42					
P1-CPT-11	10/9/2007		9.07					
P1-CPT-17	10/9/2007		9.82					
P1-CPT-18	10/9/2007		9.38					
							Total Volume Removed (gal)	2685
Former Pumphouse #1 Tank Pit Area (Release #2) – January 2008								
D-MW-05R	1/15/2008		9.74					
D-MW-06R	1/15/2008		9.47					
P1-MW-01	1/15/2008		10.8					
P1-MW-02	1/15/2008	10.4	10.41	0.01				
P1-MW-03 b	1/15/2008		9.42			9.45	4.9	2777
P1-MW-18	1/15/2008		11.27					
P1-MW-21	1/15/2008		10.35					
P1-MW-22 c	01/15/08	9.61	9.62	0.01		11.56	1.6	2539
P1-CPT-2	1/15/2008		9.22					
P1-CPT-3	1/15/2008		6.35					
P1-CPT-5	1/15/2008		10.25					
P1-CPT-7	1/15/2008		9.04					
P1-CPT-8	1/15/2008		7.53					
P1-CPT-11	1/15/2008		dry					
P1-CPT-17	1/15/2008		10.36					
P1-CPT-18	1/15/2008		10.53					
							Total Volume Removed (gal)	5316

Notes:
ft - feet
bgs - below ground surface
gal - gallons
a - Well selection for EFR activities are based on product measurements
b - Pumped for 8h on dates 10/12/07, 1/21/08 and 1/24/08

Table 2-6
Site-Specific Alternate Concentration Limits and Alternate Threshold Levels
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

Constituent	ACL (µg/L)	ATL
Benzene	285	9.3
Toluene	800,000	479
Ethylbenzene	114,800	187
Xylenes	—	893
Benzo(*a*)anthracene	1.2	—
Benzo(*a*)pyrene	1.2	1.4
Benzo(*b*)fluoranthene	3.6	5.8
Benzo(*k*)fluoranthene	1.2	—
Chrysene	1.2	2.1
Dibenzo(*a,h*)anthracene	1.2	—
Indeno(1,2,3-*cd*)pyrene	1.2	0.66
Naphthalene	260	—

Notes:
ACL - Alternate Concentration Limit
ATL - Alternate Threshold Level
(µg/L) - micrograms per Liter
(mg/kg) - milligrams per kilogram

Table 2-7
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Boring/Well Number	Date Installed	Boring Depth (ft bgs)	Screened Interval (ft bgs)	Type of Completion	Northing	Easting	Ground Surface	Top of Casing
CAP-Part A Investigation - 1996								
P1-MW01	11/18/1996	18.0	6.8 - 16.8	2-in. PVC	733935.0	817911.5	36.5	36.28
P1-MW02	11/18/1996	18.0	7.0 - 17.0	2-in. PVC	734125.0	818043.2	37.5	37.34
P1-MW03	11/19/1996	17.0	6.0 - 16.0	2-in. PVC	734348.0	817939.8	37.5	37.24
CAP-Part B Investigation - 19967, 1999								
P1-MW17	5/5/1997	17.0	6.5 - 16.5	2-in. PVC	734194.6	817691.7	36.0	35.78
P1-MW18	5/5/1997	20.0	9.5 - 19.5	2-in. PVC	733920.9	817691.6	36.1	35.92
P1-MW19	5/5/1997	20.0	9.0 - 19.0	2-in. PVC	733840.7	817960.5	37.9	37.76
P1-MW20	5/13/1997	18.0	7.0 - 17.0	2-in. PVC	734011.2	818147.9	37.2	36.98
P1-MW21	5/6/1997	18.0	7.0 - 17.0	2-in. PVC	734079.8	817393.4	37.4	destroyed in 1998
P1-MW22	5/6/1997	17.5	6.0 - 16.0	2-in. PVC	734290.7	817947.1	37.4	37.28
P1-MW23	5/13/1997	18.0	7.0 - 17.0	2-in. PVC	734295.5	818167.6	37.9	37.75
P1-MW24	5/6/1997	35.0	29.5 - 34.5	2-in. PVC	733910.8	817722.4	36.2	36.12
P1-MW36	9/28/1999	19.0	7.7 - 17.7	2-in. PVC	733746.1	817940.7	37.9	37.58
P1-MW40	9/30/1999	60.0	3.8 - 33.8	4-in. PVC	734330.2	817998.7	37.6	37.30
Replacement Well Installation - October 2002								
D-MW05R	10/18/2002	15.5	4.6 – 14.6	2-in. PVC	734528.69	974136.91	38.44	38.18
D-MW06R	10/18/2002	15.5	4.8 – 14.8	2-in. PVC	734570.07	974258.40	38.05	37.79

*Source: 2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:
ft bgs - Feet Below Ground Surface
NAD83 - North American Datum of 1983
NAV83 - North American Vertical Datum of 1988
PVC - Polyvinyl chloride
a - Injection wells were not surveyed - locations are estimated

Table 2-7
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Boring/Well Number	Date Installed	Boring Depth (ft bgs)	Screened Interval (ft bgs)	Type of Completion	Northing	Easting	Ground Surface	Top of Casing
Free Product investigation Well installation - 2003								
P1-CPT02	9/17/2003	34.0	6.4 - 16.4	2-in. PVC	734489.53	974153.50	37.20	37.07
P1-CPT03	9/17/2003	10.3	1.1 - 8.5	2-in. PVC	734489.38	974141.21	38.10	37.84
P1-CPT04	9/18/2003	8.0	2.8 - 7.7	2-in. PVC	734535.21	974133.93	38.50	38.31
P1-CPT05	9/18/2003	34.6	--	2-in. PVC	*b*	*b*	--	--
P1-CPT06	9/18/2003	10.1	2.0 - 9.4	2-in. PVC	734588.69	974124.98	38.00	37.92
P1-CPT07	9/19/2003	34.5	5.0 - 14.6	2-in. PVC	734227.20	974279.15	37.10	36.96
P1-CPT08	9/19/2003	34.4	1.7 - 8.9	2-in. PVC	734470.70	974147.42	37.90	37.00
P1-CPT09	9/19/2003	34.0	5.1 - 14.7	2-in. PVC	734229.24	974227.79	23.84	23.84
D-CPT01	9/19/2003	34.4	5.2 - 14.8	2-in. PVC	734932.79	973323.29	35.40	35.30
P1-CPT10	9/20/2003	34.5	--	2-in. PVC	*b*	*b*	--	--
P1-CPT11	9/20/2003	34.5	2.4 - 9.6	2-in. PVC	734190.23	974253.90	37.70	--
D-CPT12	9/23/2003	34.0	5.1 - 14.9	2-in. PVC	734647.24	973181.13	36.40	36.31
D-CPT13	9/23/2003	34.0	5.8 - 15.6	2-in. PVC	734588.55	972983.79	35.20	34.98
D-CPT14	9/23/2003	34.0	5.8 - 15.6	2-in. PVC	734515.12	972911.85	35.40	35.17
D-CPT16	9/23/2003	34.0	5.9 - 15.7	2-in. PVC	735208.03	973612.02	35.10	34.98
P1-CPT17	10/7/2003	34.0	5.1 - 14.9	2-in. PVC	734156.45	974255.72	22.80	22.80
P1-CPT18	10/7/2003	34.0	2.8 - 12.6	2-in. PVC	734179.17	974212.63	24.36	24.36

*Source: 2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008) and Third Annual Monitoring Only Report Former Pumphouse #1 (SAIC, 2005)

Notes:
ft bgs - Feet Below Ground Surface
NAD83 - North American Datum of 1983
NAV83 - North American Vertical Datum of 1988
PVC - Polyvinyl chloride
a - Injection wells were not surveyed - locations are estimated
b - These wells could not be found to be surveyed

Table 2-7
Historical Groundwater Elevations
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #1)
Former Building 8060
Hunter Army Airfield, Georgia

Boring/Well Number	Date Installed	Boring Depth (ft bgs)	Screened Interval (ft bgs)	Type of Completion	Northing	Easting	Ground Surface	Top of Casing
Free Product investigation Well installation - 2003 (cont.)								
P1-CPT19	10/9/2003	34.0	6.1 - 15.9	2-in. PVC	734515.68	974098.83	25.03	25.03
P1-CPT20	10/9/2003	34.0	4.2 - 15.0	2-in. PVC	734521.22	974165.35	25.45	25.45
P1-CPT21	10/9/2003	34.0	5.8 - 15.6	2-in. PVC	73449.15	974118.17	25.91	25.91
P1-CPT22	10/10/2003	34.0	5.9 - 15.7	2-in. PVC	734483.01	974103.05	26.00	26.00
P1-CPT23	10/10/2003	34.0	5.7 - 15.5	2-in. PVC	734305.11	974253.99	23.43	23.43
P1-CPT24	10/10/2003	34.0	5.2 - 15.0	2-in. PVC	734276.89	974209.56	22.68	22.68
P1-CPT25	10/10/2003	34.0	3.2 - 13.0	2-in. PVC	734369.16	974158.21	24.36	24.36
Injection Well installation - May 2006								
P1-J1	5/11/2006	17.5	7.2 - 17.2	2-in. PVC	*a*	*a*	*a*	*a*
P1-J2	5/12/2006	17.5	7.3 - 17.3	2-in. PVC	*a*	*a*	*a*	*a*
P1-J3	5/12/2006	17.5	7.2 - 17.2	2-in. PVC	*a*	*a*	*a*	*a*
P1-J4	5/12/2006	17.5	7.2 - 17.2	2-in. PVC	*a*	*a*	*a*	*a*
P1-J5	5/12/2006	17.5	7.3 - 17.3	2-in. PVC	*a*	*a*	*a*	*a*
P1-J6	5/12/2006	17.6	7.3 - 17.3	2-in. PVC	*a*	*a*	*a*	*a*

*Source: 2007 Free Product Monitoring and Removal Only Report Former Pumphouse #1, Release #1 (SAIC, 2008)

Notes:
ft bgs - Feet Below Ground Surface
NAD83 - North American Datum of 1983
NAV83 - North American Vertical Datum of 1988
PVC - Polyvinyl chloride
a - Injection wells were not surveyed - locations are estimated

Table 3-1

Properties of oxygen release compounds.

Properties	**Magnesium-peroxide**	**Calcium-peroxide**	**Sodium-percarbonate**
Formula	MgO_2	CaO_2	$2\ Na_2CO_3\ .\ 3\ H_2O_2$
Molecular weight (g/mol)	56	72	314
Purity (%)	35	>75	>88
Additions	Mg (60%)	$Ca(OH)_2$, $CaCO_3$	
pH (con = 10 g/L; T = 20°C)	10,3	11,9	10,4-10,6
Density (kg/m³)	500	670	900-1200
Solubility in water (g/L)	<0,1	<0,1	150
formed while put in solution	$Mg(OH)_2$, O_2	$Ca(OH)_2$, O_2	Na_2CO_3, H_2O_2 en O_2
Clogging	Yes: $Mg(OH)_2$	Yes: $Ca(OH)_2$	No
$\%O_2$ generated	28	22	15
$\%O_2$ in relation to its purity	10	17	13

TABLE 3-2
PROPOSED ANALYTICAL PARAMETERS AND METHODS
Revised Corrective Acton Plan-Part B
Former Pumphouse #1 (Release #2)
Former Building 8060
Hunter Army Airfield, Georgia

PARAMETER	ANALYTICAL METHOD
Constituents of Concern	
BTEX	USEPA SW 846 8260B
Baseline Analytical	
Total Iron	SW 846 6010
Dissolved Iron	SW 846 6010
Manganese	SW 846 6010
Alkalinity	USEPA 310
Nitrate	USEPA 300
Sulfate	USEPA 300
Total organic carbon (TOC)	SW 846 9060A
Chemical Oxidant Demand (COD)	USEPA 410.4 2
Total Dissolved Solids	USEPA 160.1
Total Suspended Solids	USEPA 160.2
Field Kits	
Ferrous Iron	Field Hach Kit
Sodium Persulfate	Field CHEMetrics Kit
Secondary Water Quality Parameters	
Metals (Chromium, Arsenic)	SW 846 6010
Field Parameters	Multi-parameter field instrument with flow-through cell
Dissolved Oxygen (DO) mg/L	Multi-parameter field instrument with flow-through cell
Oxidation/Reduction Potential (ORP)	Multi-parameter field instrument with flow-through cell
Conductivity (CND) uS/cm	Multi-parameter field instrument with flow-through cell
pH	Multi-parameter field instrument with flow-through cell
Temperature (^{o}F)	Multi-parameter field instrument with flow-through cell

Notes:

1 Methods for Determination of Inorganic Substances In Environmental Samples (EPA 600/R-93/100)

2 Methods for Chemical Analysis of Water and Wastes (EPA 600/4-79/020) and Revision 2 (1993)

3 BTEX = Benzene, Toluene, Ethylbenzene, Xylenes

TABLE 3-3a

MONITORING SCHEDULE FOR DOSE RESPONSE TESTING AND SODIUM PERSULFATE PILOT TEST

Revised Corrective action Plan - Part B

Former Pumphouse 1 Release 2

Former Building 8060

Hunter Army Airfield, Georgia

		Baseline Event					20% of Planned Injection Volume				40% of Planned Injection Volume				60% of Planned Injection Volume				80% of Planned Injection Volume				100% of Planned Injection Volume and C/Co Stable			
LOCATION	OBJECTIVE	FK	BA	FP	SWQ	COCs	FK	FP	SWQ	COCs	FK	FP	SWQ	COCs	FK	FP	SWQ	COCs	FK	FP	SWQ	COCs	FK	FP	SWQ	COCs
Water Supply Tank	Baseline for Water Supply	x				x																				
Chemical Mix Tank	Injection Chemical Concentration	x		x			x	x			x	x			x	x			x	x			x	x	x	x
Injection Well	Injection Well/Monitor Washout Rate	x	x	x	x	x																	x	C	x	x
Monitor Well	Dose Response Wells	x	x	x	x	x	x	C			x	C			x	C			x	C			x	C	x	x
Monitor Well	Downgradient Wells	x	x	x	x	x		C				C				C				C			x	C		

Notes:

FK	Field Kits
BA	Baseline Analytical
FP	Field Parameters
SWQ	Secondary Water Quality
COCs	Constituents of Concern
C	Continuous monitoring (data logging)
C/Co	Ratio of concentration in dose-response well to initial concentration (tank concentration).
ft bgs	Feet below ground surface.
x	Parameter should be collected during monitoring event.

See Table 3-2 for list of analytical parameters for each group (field kits, baseline analytical, field parameters, tracer, secondary water quality, and COCs).

Set data logging trolls in wells prior to injections.

TABLE 3-3b

MONITORING SCHEDULE FOR DOSE RESPONSE TESTING AND SODIUM PERSULFATE PILOT TEST

Revised Corrective action Plan - Part B

Former Pumphouse 1 Release 2

Former Building 8060

Hunter Army Airfield, Georgia

		WEEK 1 (twice per week)				WEEK 2 - 4 (once per week)				WEEK 5 - 17 (bi-weekly)			
LOCATION	OBJECTIVE	FK	FP	SWQ	COCs	FK	FP	SWQ	COCs	FK	FP	SWQ	COCs
Water Supply Tank	Baseline for Water Supply												
Chemical Mix Tank	Injection Chemical Concentration												
Injection Well	Injection Well/Monitor Washout Rate	x	C			x	x	x	x	x	x	x	x
Monitor Well	Dose Response Wells	x	C			x	x	x	x	x	x	x	x
Monitor Well	Downgradient Wells	x	C			x	x	x	x	x	x	x	x

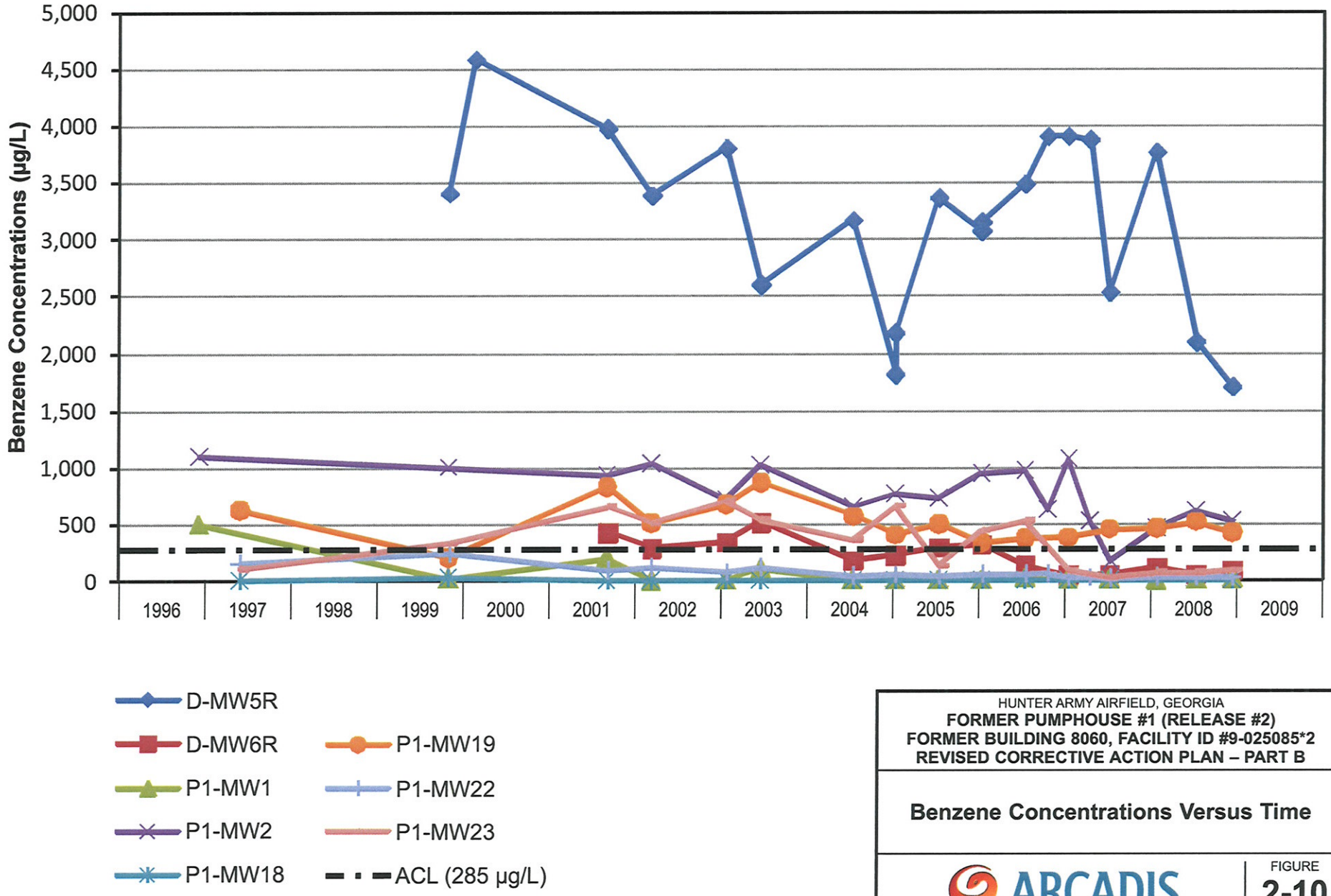
Notes:

FK	Field Kits
BA	Baseline Analytical
FP	Field Parameters
SWQ	Secondary Water Quality
COCs	Constituents of Concern
C	Continuous monitoring (data logging)
C/Co	Ratio of concentration in dose-response well to initial concentration (tank concentration).
ft bgs	Feet below ground surface.
x	Parameter should be collected during monitoring event.

See Table 3-2 for list of analytical parameters for each group (field kits, baseline analytical, field parameters, tracer, secondary water quality, and COCs).

Set data logging trolls in wells prior to injections.

CITY:(KNOXVILLE) DIV/GROUP:(ENV) DB:(B.ALTOM) LD:(B.ALTOM) PIC:(M.FENNER) PM:(C.BERTZ) TM:(S.BOSTIAN/E.MADDOX)
PROJECT: GP08HAFS.F13A.EH1R2 PATH: G:\GIS\GP08HAFS\H13A\2009_PH1R2_CAP\F2-10 HAA13_PH1R2_CAP_BENZ.cdr SAVED: 15MAR2009



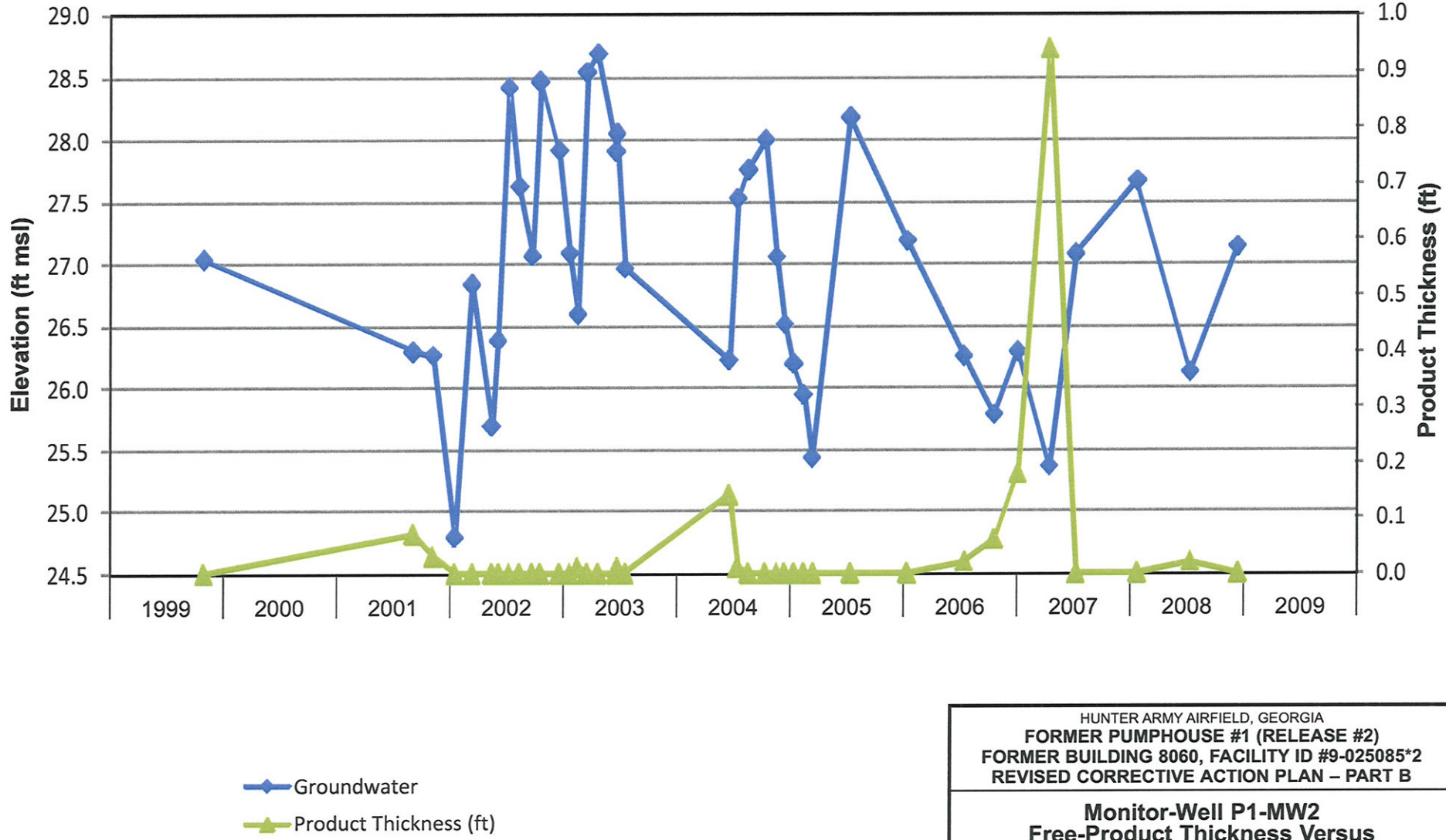
HUNTER ARMY AIRFIELD, GEORGIA
FORMER PUMPHOUSE #1 (RELEASE #2)
FORMER BUILDING 8060, FACILITY ID #9-025085*2
REVISED CORRECTIVE ACTION PLAN – PART B

Benzene Concentrations Versus Time

ARCADIS

FIGURE
2-10

CITY:(KNOXVILLE) DIV/GROUP:(ENV) DB:(B.ALTOM) LD:(B.ALTOM) PIC:(M.FENNER) PM:(C.BERTZ) TM:(S.BOSTIAN/E.MADDOX)
PROJECT: GP08HAFS.F13A.EH1R2 PATH: G:\GIS\GP08HAFS\H13A\2009_PH1R2_CAP\F2-11n12 HAA13_PH1R2_CAP_FP.cdr SAVED: 30MAR2009



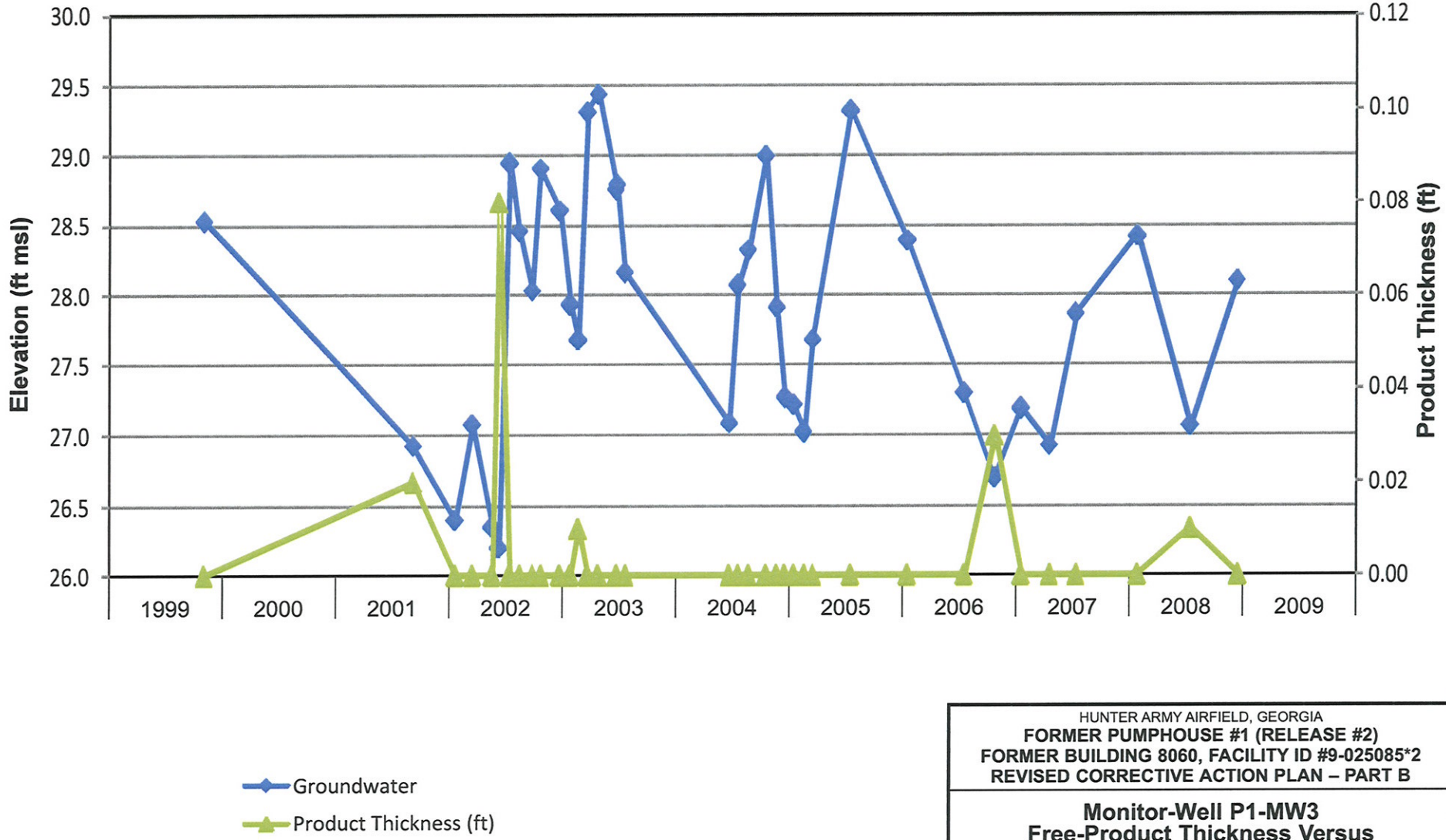
HUNTER ARMY AIRFIELD, GEORGIA
FORMER PUMPHOUSE #1 (RELEASE #2)
FORMER BUILDING 8060, FACILITY ID #9-025085*2
REVISED CORRECTIVE ACTION PLAN – PART B

Monitor-Well P1-MW2
Free-Product Thickness Versus
Groundwater Elevation

ARCADIS

FIGURE
2-11

CITY:(KNOXVILLE) DIV/GROUP:(ENV) DB:(B.ALTOM) LD:(B.ALTOM) PIC:(M.FENNER) PM:(C.BERTZ) TM:(S.BOSTIAN/E.MADDOX)
PROJECT: GP08HAFS.F13A.EH1R2 PATH: G:\GIS\GP08HAFS\H13A\2009_PH1R2_CAP\F2-11n12 HAA13_PH1R2_CAP_FP.cdr SAVED: 30MAR2009

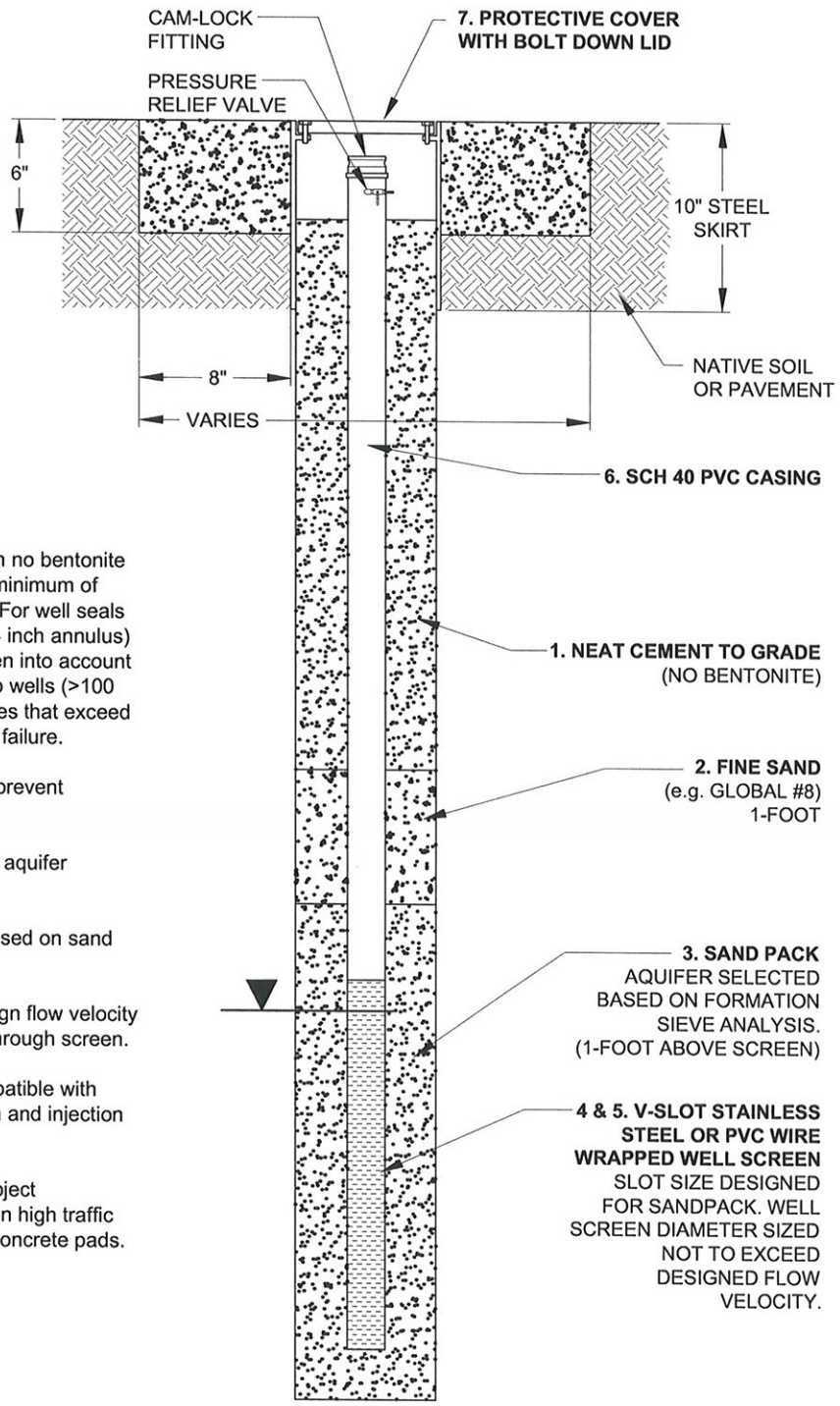


HUNTER ARMY AIRFIELD, GEORGIA
FORMER PUMPHOUSE #1 (RELEASE #2)
FORMER BUILDING 8060, FACILITY ID #9-025085*2
REVISED CORRECTIVE ACTION PLAN – PART B

Monitor-Well P1-MW3
Free-Product Thickness Versus
Groundwater Elevation

ARCADIS

FIGURE
2-12



NOTES

1. Well seal consists of neat cement grout with no bentonite seal. Cement must be allowed to set up for a minimum of 72-hours prior to development (and injection). For well seals greater than 50 feet in length (or with large > 4 inch annulus) consideration for heat generation must be taken into account with well materials. Also for exceptionally deep wells (>100 feet) long grout columns may result in pressures that exceed the overburden strength and lead to formation failure.

2. Fine sand placed above well sand pack to prevent migration of neat cement to well screen.

3. Sand pack size selected based on specific aquifer formation grainsize analysis.

4. Well screen slot size should be selected based on sand pack.

5. Well diameter to be sized to achieve a design flow velocity of less than or equal to 0.05 feet per second through screen.

6. Well materials must be selected to be compatible with injection fluids and selected to withstand depth and injection pressures.

7. Protective cover to be designed to meet project specifications. Traffic rated covers to be used in high traffic areas. Traffic rated covers require reinforced concrete pads.

NOT TO SCALE

HUNTER ARMY AIRFIELD, GEORGIA
FORMER PUMPHOUSE #1 (RELEASE #2)
FORMER BUILDING 8060, FACILITY ID #9-025085*2
REVISED CORRECTIVE ACTION PLAN . PART B

Typical Injection Well Detail (Unconfined Aquifer, Shallow Impacts)

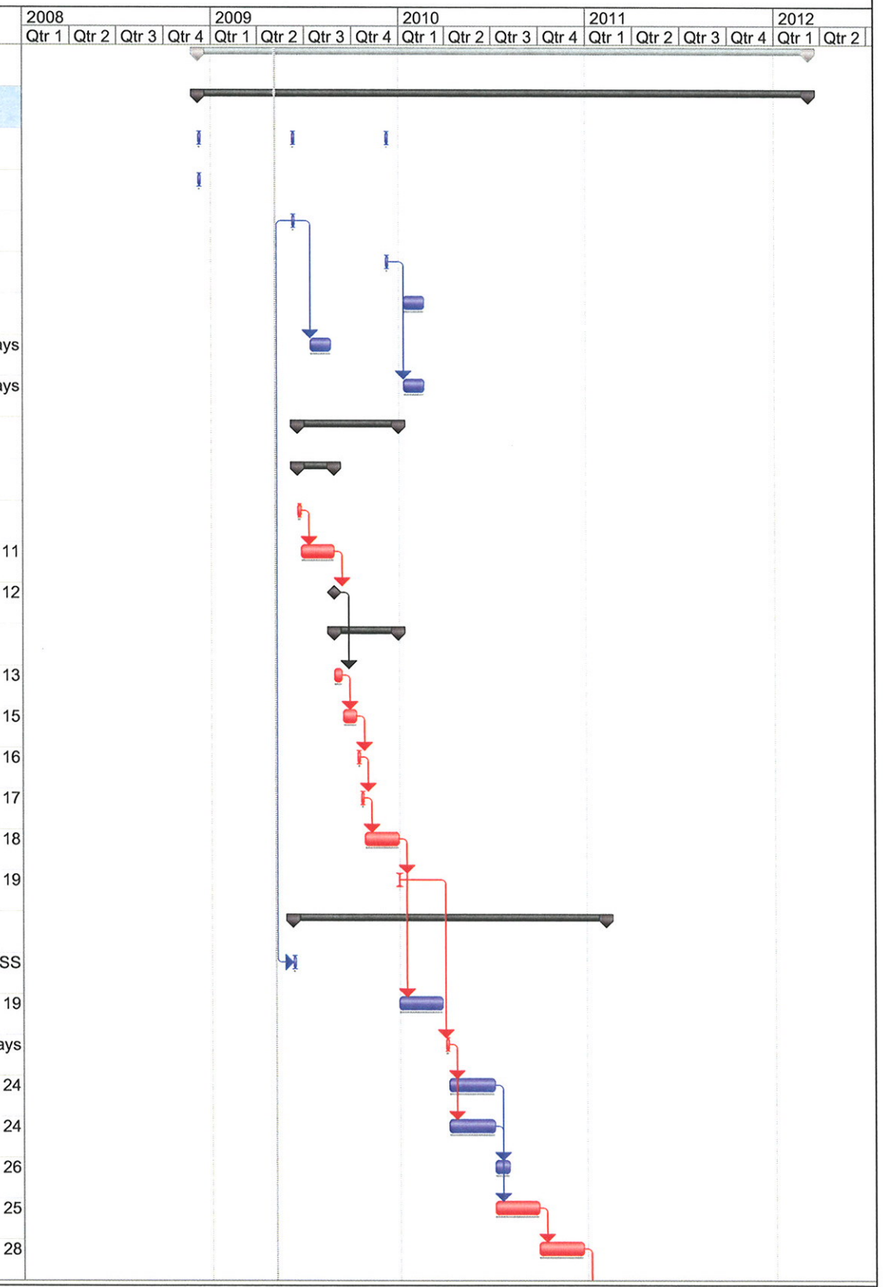
ARCADIS

FIGURE **3-4**

CITY:(KNOXVILLE) DIV/GROUP:(ENV) DB:(A.SMITH) LD:(B.ALTOM) PIC:(M.FENNER) PM:(C.BERTZ) TM:(S.BOSTIAN)
G:\GIS\GP08HAFS\H13A\2009_PH1R2_CAP\F3-4 HAA13_PH1R2_CAP_WCON.dwg LAYOUT: WCONSAVED: 5/4/2009 11:32 AM ACADVER: 17.1S (LMS TECH) PAGESETUP: ----PLOTSTYLETABLE: TN1_STANDARD.CTB PLOTTED: 5/4/2009 11:33 AM BY: ALTOM, BRENDA
XREFS: IMAGES: PROJECT: GP08HAFS.F13A.EH1R2

Figure 3-5: Project Schedule
HAA-13 Pumphouse 1 Release 2

ID	WBS	Task Name	Duration	Start	Finish	Predecessors
0	0	**Ft Stewart / HAAF Schedule - Proposed**	**827 days**	**Mon 12/8/08**	**Fri 3/9/12**	
1	1	**HAA 13: PUMP HOUSE #1 / RELEASE #2**	**827 days**	**Mon 12/8/08**	**Fri 3/9/12**	
2	1.1	**Semi-Annual Monitoring and Gauging**	**258 days**	**Mon 12/8/08**	**Fri 12/11/09**	
3	1.1.1	Semi-Annual Monitoring and Gauging 1	5 days	Mon 12/8/08	Fri 12/12/08	
4	1.1.2	Semi-Annual Monitoring and Gauging 2	5 days	Mon 6/8/09	Fri 6/12/09	
5	1.1.3	Semi-Annual Monitoring and Gauging 3	5 days	Mon 12/7/09	Fri 12/11/09	
6	1.2	**Annual Reporting**	**155 days**	**Mon 7/13/09**	**Fri 2/19/10**	
7	1.2.1	Semiannual Reporting 2	30 days	Mon 7/13/09	Fri 8/21/09	4FS+30 edays
8	1.2.2	Annual Reporting 3	30 days	Mon 1/11/10	Fri 2/19/10	5FS+30 edays
9	1.3	**HAA 13 Revised CAP Part B**	**136 days**	**Thu 6/18/09**	**Thu 12/31/09**	
10	1.3.1	**HAA 13 Revised CAP Part B Rev 0 (includes Annual Report 1)**	**50 days**	**Thu 6/18/09**	**Thu 8/27/09**	
11	1.3.1.1	Army Submittal of Revised CAP Part B Rev 0	5 days	Thu 6/18/09	Wed 6/24/09	
12	1.3.1.2	GAEPD Review of Revised CAP Part B Rev 0	45 days	Thu 6/25/09	Thu 8/27/09	11
13	1.3.1.3	GAEPD comments on Revised CAP Part B Rev 0	0 days	Thu 8/27/09	Thu 8/27/09	12
14	1.3.2	**HAA 13 Revised CAP Part B Rev 1**	**85 days**	**Fri 8/28/09**	**Wed 12/30/09**	
15	1.3.2.1	Prepare RTCs and HAA 13 Revised CAP Part B Rev 1	10 days	Fri 8/28/09	Fri 9/11/09	13
16	1.3.2.2	Army Review of RTCs and Revised CAP Part B Rev 1	20 days	Mon 9/14/09	Fri 10/9/09	15
17	1.3.2.3	ARCADIS Revisions	5 days	Mon 10/12/09	Fri 10/16/09	16
18	1.3.2.4	Army Submittal of RTCs and Revised CAP Part B Rev 1	5 days	Mon 10/19/09	Fri 10/23/09	17
19	1.3.2.5	GAEPD Review of Revised CAP Part B Rev 1	45 days	Mon 10/26/09	Wed 12/30/09	18
20	1.3.3	Regulatory Approval Final HAA 13 Revised CAP Part B Rev 1	1 day	Thu 12/31/09	Thu 12/31/09	19
21	1.4	**HAA 13 Implementation**	**423 days**	**Mon 6/8/09**	**Mon 2/7/11**	
22	1.4.1	Baseline Biogeochemical Sampling	5 days	Mon 6/8/09	Fri 6/12/09	4SS
23	1.4.2	Treatability Testing	60 days	Thu 12/31/09	Thu 3/25/10	19
24	1.4.3	Construction Mobilization	4 days	Thu 4/1/10	Tue 4/6/10	20FS+90 edays
25	1.4.4	Well and Mixing System Construction Implementation	90 edays	Tue 4/6/10	Mon 7/5/10	24
26	1.4.5	Barrier Injection	90 edays	Tue 4/6/10	Mon 7/5/10	24
27	1.4.6	Construction and Injection Completion Report	20 days	Tue 7/6/10	Mon 8/2/10	26
28	1.4.7	ISCO Injection & Design Evaluation	60 days	Tue 7/6/10	Tue 9/28/10	25
29	1.4.8	UIC Permit Application	60 days	Wed 9/29/10	Thu 12/23/10	28



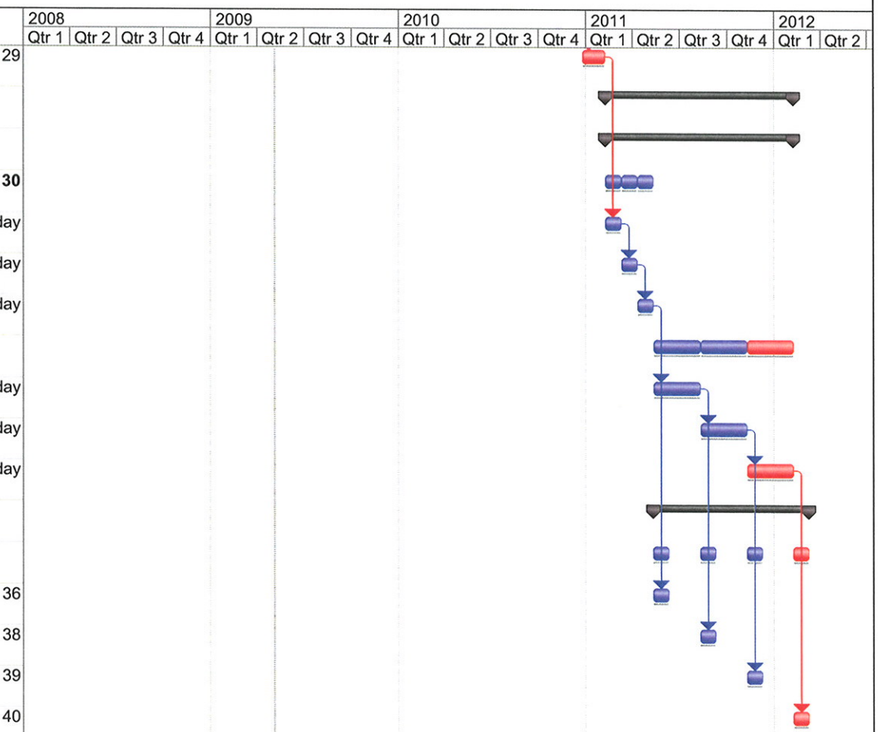
ARCADIS

Date: Mon 5/4/09

Task Duration Milestone Summary

Figure 3-5: Project Schedule
HAA-13 Pumphouse 1 Release 2

ID	WBS	Task Name	Duration	Start	Finish	Predecessors
30	1.4.9	Full Scale Injection	30 days	Mon 12/27/10	Mon 2/7/11	29
31	**1.5**	**HAA 13 Site Monitoring**	**254 days**	**Tue 2/8/11**	**Wed 2/8/12**	
32	**1.5.1**	**HAA 13 Site Monitoring Years 1 and 2**	**254 days**	**Tue 2/8/11**	**Wed 2/8/12**	
33	**1.5.1.1**	**Post Injection Monitoring Q1**	**66 days**	**Tue 2/8/11**	**Wed 5/11/11**	**30**
34	1.5.1.1.1	Month 1 Monitoring	30 edays	Tue 2/8/11	Thu 3/10/11	30FS+1 day
35	1.5.1.1.2	Month 2 Monitoring	30 edays	Fri 3/11/11	Sun 4/10/11	34FS+1 day
36	1.5.1.1.3	Month 3 Monitoring	30 edays	Mon 4/11/11	Wed 5/11/11	35FS+1 day
37	**1.5.1.2**	**Quarterly Post Injection Monitoring**	**187 days**	**Thu 5/12/11**	**Wed 2/8/12**	
38	1.5.1.2.1	Monitoring Q2	90 edays	Thu 5/12/11	Wed 8/10/11	36FS+1 day
39	1.5.1.2.2	Monitoring Q3	90 edays	Thu 8/11/11	Wed 11/9/11	38FS+1 day
40	1.5.1.2.3	Monitoring Q4	90 edays	Thu 11/10/11	Wed 2/8/12	39FS+1 day
41	**1.6**	**HAA 13 Monitoring and Reporting**	**210 days**	**Wed 5/11/11**	**Fri 3/9/12**	
42	**1.6.1**	**HAA 13 Semiannual Performance Monitoring**	**210 days**	**Wed 5/11/11**	**Fri 3/9/12**	
43	1.6.1.1	HAA 13 Quarterly Performance Monitoring Report 1	30 edays	Wed 5/11/11	Fri 6/10/11	36
44	1.6.1.2	HAA 13 Quarterly Performance Monitoring Report 2	30 edays	Wed 8/10/11	Fri 9/9/11	38
45	1.6.1.3	HAA 13 Quarterly Performance Monitoring Report 3	30 edays	Wed 11/9/11	Fri 12/9/11	39
46	1.6.1.4	HAA 13 Quarterly Performance Monitoring Report 4	30 edays	Wed 2/8/12	Fri 3/9/12	40



ARCADIS

Date: Mon 5/4/09

Task Duration Milestone Summary

ARCADIS

APPENDIX A

Laboratory Data

January 2008 Supplemental Investigation

Note: Original data and Chain of Custody were submitted in 6th Annual Monitoring Only Report.

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201010	Date Collected:	01/15/2008 12:03	Matrix:	SOIL
Lab Sample ID:	201010001	Date Received:	01/16/2008 09:35	%Moisture:	10.7
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0119	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	721963	Inst:	VOA4.I	Dilution:	1
Run Date:	01/28/2008 18:45	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/15/2008 09:46	Aliquot:	5.1 g	Final Volume:	5 mL
Data File:	4v119.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.10 U	ug/kg	0.362	1.10
108-88-3	Toluene	U	1.10	ug/kg	0.318	1.10
100-41-4	Ethylbenzene	U	1.10	ug/kg	0.219	1.10
1330-20-7	Xylenes (total)	J	0.566 J	ug/kg	0.219	1.10

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201010	Date Collected:	01/15/2008 12:03	Matrix:	SOIL
Lab Sample ID:	201010001	Date Received:	01/16/2008 09:35	%Moisture:	10.7
		Client:	SA1C072	Project:	SA1C007202
Client ID:	AK0119	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	719185	Inst:	MSD2.I	Dilution:	1
Run Date:	01/18/2008 23:53	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/18/2008 15:58	Aliquot:	30.09 g	Final Volume:	1 mL
Data File:	s2a1822.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	37.2 U	ug/kg	12.4	37.2
129-00-0	Pyrene	U	37.2	ug/kg	11.7	37.2
91-20-3	Naphthalene	U	37.2	ug/kg	11.2	37.2
91-57-6	2-Methylnaphthalene	U	37.2	ug/kg	7.44	37.2
91-58-7	2-Chloronaphthalene	U	37.2	ug/kg	13.0	37.2
208-96-8	Acenaphthylene	U	37.2	ug/kg	11.2	37.2
86-73-7	Fluorene	U	37.2	ug/kg	11.2	37.2
85-01-8	Phenanthrene	U	37.2	ug/kg	11.2	37.2
120-12-7	Anthracene	U	37.2	ug/kg	7.44	37.2
206-44-0	Fluoranthene	U	37.2	ug/kg	11.2	37.2
56-55-3	Benzo(a)anthracene	U	37.2	ug/kg	11.2	37.2
218-01-9	Chrysene	U	37.2	ug/kg	11.2	37.2
205-99-2	Benzo(b)fluoranthene	U	37.2	ug/kg	11.2	37.2
207-08-9	Benzo(k)fluoranthene	U	37.2	ug/kg	11.2	37.2
50-32-8	Benzo(a)pyrene	U	37.2	ug/kg	11.2	37.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.2	ug/kg	11.2	37.2
53-70-3	Dibenzo(a,h)anthracene	U	37.2	ug/kg	11.2	37.2
191-24-2	Benzo(ghi)perylene	U	37.2	ug/kg	11.2	37.2

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201010 METHOD TYPE: SW846

SAMPLE ID: 201010001 CLIENT ID: AK0119

CONTRACT: SAIC007202

MATRIX:S DATE RECEIVED 16-JAN-08 LEVEL: Low %SOLIDS: 89

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	1090 J	ug/kg	B		P	444	1	OPTIMA3	012408-1

"Data Validation Copy"

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201010	Date Collected:	01/15/2008 13:02	Matrix:	SOIL
Lab Sample ID:	201010002	Date Received:	01/16/2008 09:35	% Moisture:	6.5
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0219	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	721963	Inst:	VOA4.I	Dilution:	1
Run Date:	01/28/2008 19:13	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/15/2008 09:49	Aliquot:	4.5 g	Final Volume:	5 mL
Data File:	4v120.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.19 U	ug/kg	0.392	1.19
108-88-3	Toluene	U	1.19 U	ug/kg	0.345	1.19
100-41-4	Ethylbenzene	J	0.938 J	ug/kg	0.238	1.19
1330-20-7	Xylenes (total)	J	0.865 J	ug/kg	0.238	1.19

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201010	Date Collected:	01/15/2008 13:02	Matrix:	SOIL
Lab Sample ID:	201010002	Date Received:	01/16/2008 09:35	% Moisture:	6.5
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0219	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	719185	Inst:	MSD2.I	Dilution:	1
Run Date:	01/19/2008 00:57	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/18/2008 15:58	Aliquot:	30.24 g	Final Volume:	1 mL
Data File:	s2a1825.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	35.4 U	ug/kg	11.8	35.4
129-00-0	Pyrene	U	35.4	ug/kg	11.1	35.4
91-20-3	Naphthalene	U	35.4	ug/kg	10.6	35.4
91-57-6	2-Methylnaphthalene	U	35.4	ug/kg	7.08	35.4
91-58-7	2-Chloronaphthalene	U	35.4	ug/kg	12.4	35.4
208-96-8	Acenaphthylene	U	35.4	ug/kg	10.6	35.4
86-73-7	Fluorene	U	35.4	ug/kg	10.6	35.4
85-01-8	Phenanthrene	U	35.4	ug/kg	10.6	35.4
120-12-7	Anthracene	U	35.4	ug/kg	7.08	35.4
206-44-0	Fluoranthene	U	35.4	ug/kg	10.6	35.4
56-55-3	Benzo(a)anthracene	U	35.4	ug/kg	10.6	35.4
218-01-9	Chrysene	U	35.4	ug/kg	10.6	35.4
205-99-2	Benzo(b)fluoranthene	J	12.9 J	ug/kg	10.6	35.4
207-08-9	Benzo(k)fluoranthene	U	35.4 U	ug/kg	10.6	35.4
50-32-8	Benzo(a)pyrene	J	13.0 J	ug/kg	10.6	35.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.4 U	ug/kg	10.6	35.4
53-70-3	Dibenzo(a,h)anthracene	U	35.4	ug/kg	10.6	35.4
191-24-2	Benzo(ghi)perylene	U	35.4	ug/kg	10.6	35.4

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201010 METHOD TYPE: SW846

SAMPLE ID: 201010002 CLIENT ID: AK0219

CONTRACT: SAJC007202

MATRIX: S DATE RECEIVED 16-JAN-08 LEVEL: Low %SOLIDS: 93.5

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	987	ug/kg	B		P	412	1	OPTIMA3	012408-1
		J								

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201010	Date Collected:	01/15/2008 14:17	Matrix:	SOIL
Lab Sample ID:	201010003	Date Received:	01/16/2008 09:35	% Moisture:	9.8
		Client:	SA1C072	Project:	SA1C007202
Client ID:	AK0319	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	721963	Inst:	VOA4.1	Dilution:	1
Run Date:	01/28/2008 19:41	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/15/2008 09:52	Aliquot:	4.6 g	Final Volume:	5 mL
Data File:	4v121.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.21 U	ug/kg	0.398	1.21
108-88-3	Toluene	J	0.528 J	ug/kg	0.350	1.21
100-41-4	Ethylbenzene	J	0.323 J	ug/kg	0.241	1.21
1330-20-7	Xylenes (total)		1.45 =	ug/kg	0.241	1.21

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201010	Date Collected:	01/15/2008 14:17	Matrix:	SOIL
Lab Sample ID:	201010003	Date Received:	01/16/2008 09:35	% Moisture:	9.8
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0319	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	719185	Inst:	MSD2.I	Dilution:	1
Run Date:	01/19/2008 01:18	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/18/2008 15:58	Aliquot:	30.29 g	Final Volume:	1 mL
Data File:	s2a1826.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	36.6 U	ug/kg	12.2	36.6
129-00-0	Pyrene	U	36.6	ug/kg	11.5	36.6
91-20-3	Naphthalene	U	36.6	ug/kg	11.0	36.6
91-57-6	2-Methylnaphthalene	U	36.6	ug/kg	7.32	36.6
91-58-7	2-Chloronaphthalene	U	36.6	ug/kg	12.8	36.6
208-96-8	Acenaphthylene	U	36.6	ug/kg	11.0	36.6
86-73-7	Fluorene	U	36.6	ug/kg	11.0	36.6
85-01-8	Phenanthrene	U	36.6	ug/kg	11.0	36.6
120-12-7	Anthracene	U	36.6	ug/kg	7.32	36.6
206-44-0	Fluoranthene	U	36.6	ug/kg	11.0	36.6
56-55-3	Benzo(a)anthracene	U	36.6	ug/kg	11.0	36.6
218-01-9	Chrysene	U	36.6	ug/kg	11.0	36.6
205-99-2	Benzo(b)fluoranthene	U	36.6	ug/kg	11.0	36.6
207-08-9	Benzo(k)fluoranthene	U	36.6	ug/kg	11.0	36.6
50-32-8	Benzo(a)pyrene	U	36.6	ug/kg	11.0	36.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.6	ug/kg	11.0	36.6
53-70-3	Dibenzo(a,h)anthracene	U	36.6	ug/kg	11.0	36.6
191-24-2	Benzo(ghi)perylene	U	36.6	ug/kg	11.0	36.6

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201010 METHOD TYPE: SW846

SAMPLE ID: 201010003 CLIENT ID: AK0319

CONTRACT: SAJC007202

MATRIX: S DATE RECEIVED 16-JAN-08 LEVEL: Low % SOLIDS: 90.2

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	5740	ug/kg			P	439	1	OPTIMA2	012408-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201010	Date Collected:	01/15/2008 15:27	Matrix:	SOIL
Lab Sample ID:	201010004	Date Received:	01/16/2008 09:35	% Moisture:	7.6
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0419	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	721963	Inst:	VOA4.I	Dilution:	1
Run Date:	01/28/2008 20:09	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/15/2008 09:55	Aliquot:	5.1 g	Final Volume:	5 mL
Data File:	4v122.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.06 U	ug/kg	0.350	1.06
108-88-3	Toluene	U	1.06 U	ug/kg	0.308	1.06
100-41-4	Ethylbenzene		2.17 =	ug/kg	0.212	1.06
1330-20-7	Xylenes (total)	J	0.302 J	ug/kg	0.212	1.06

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201010	Date Collected:	01/15/2008 15:27	Matrix:	SOIL
Lab Sample ID:	201010004	Date Received:	01/16/2008 09:35	% Moisture:	7.6
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0419	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	719185	Inst:	MSD2.I	Dilution:	1
Run Date:	01/19/2008 01:39	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/18/2008 15:58	Aliquot:	30.06 g	Final Volume:	1 mL
Data File:	s2a1827.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	36.0 U	ug/kg	12.0	36.0
129-00-0	Pyrene	U	36.0	ug/kg	11.3	36.0
91-20-3	Naphthalene	U	36.0	ug/kg	10.8	36.0
91-57-6	2-Methylnaphthalene	U	36.0	ug/kg	7.20	36.0
91-58-7	2-Chloronaphthalene	U	36.0	ug/kg	12.6	36.0
208-96-8	Acenaphthylene	U	36.0	ug/kg	10.8	36.0
86-73-7	Fluorene	U	36.0	ug/kg	10.8	36.0
85-01-8	Phenanthrene	U	36.0	ug/kg	10.8	36.0
120-12-7	Anthracene	U	36.0	ug/kg	7.20	36.0
206-44-0	Fluoranthene	U	36.0	ug/kg	10.8	36.0
56-55-3	Benzo(a)anthracene	U	36.0	ug/kg	10.8	36.0
218-01-9	Chrysene	U	36.0	ug/kg	10.8	36.0
205-99-2	Benzo(b)fluoranthene	U	36.0	ug/kg	10.8	36.0
207-08-9	Benzo(k)fluoranthene	U	36.0	ug/kg	10.8	36.0
50-32-8	Benzo(a)pyrene	U	36.0	ug/kg	10.8	36.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.0	ug/kg	10.8	36.0
53-70-3	Dibenzo(a,h)anthracene	U	36.0	ug/kg	10.8	36.0
191-24-2	Benzo(ghi)perylene	U	36.0	ug/kg	10.8	36.0

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201010 METHOD TYPE: SW846

SAMPLE ID: 201010004 CLIENT ID: AK0419

CONTRACT: SAIC007202

MATRIX: S DATE RECEIVED 16-JAN-08 LEVEL: Low % SOLIDS: 92.4

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	3620	ug/kg			P	426	1	OPTIMA5	012408-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201086	Date Collected:	01/16/2008 10:23	Matrix:	SOIL
Lab Sample ID:	201086003	Date Received:	01/17/2008 09:30	% Moisture:	9.6
		Client:	SA1C072	Project:	SA1C007202
		Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Client ID:	AK0519	Inst:	VOA4.I	Dilution:	100
Batch ID:	721963	Analyst:	ACJ	Purge Vol:	5 mL
Run Date:	01/28/2008 18:17	Aliquot:	5.4 g	Final Volume:	10 mL
Prep Date:	01/15/2008 12:15	Column:	RTX-VOLATILES	Level:	MED
Data File:	4v118.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	205 U	ug/kg	67.6	205
108-88-3	Toluene		973 J	ug/kg Gol	59.4	205
100-41-4	Ethylbenzene		9690	ug/kg	41.0	205
1330-20-7	Xylenes (total)		24000	ug/kg	41.0	205

"Data Validation Copy"

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201086	Date Collected:	01/16/2008 10:23	Matrix:	SOIL
Lab Sample ID:	201086003	Date Received:	01/17/2008 09:30	% Moisture:	9.6
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0519	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	719185	Inst:	MSD2.1	Dilution:	1
Run Date:	01/19/2008 02:43	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/18/2008 15:58	Aliquot:	30.32 g	Final Volume:	1 mL
Data File:	s2a1830.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	36.5 U	ug/kg	12.2	36.5
129-00-0	Pyrene	U	36.5	ug/kg	11.5	36.5
91-20-3	Naphthalene	U	36.5	ug/kg	10.9	36.5
91-57-6	2-Methylnaphthalene	J	13.4 J	ug/kg	7.30	36.5
91-58-7	2-Chloronaphthalene	U	36.5 U	ug/kg	12.8	36.5
208-96-8	Acenaphthylene	U	36.5	ug/kg	10.9	36.5
86-73-7	Fluorene	U	36.5	ug/kg	10.9	36.5
85-01-8	Phenanthrene	U	36.5	ug/kg	10.9	36.5
120-12-7	Anthracene	U	36.5	ug/kg	7.30	36.5
206-44-0	Fluoranthene	U	36.5	ug/kg	10.9	36.5
56-55-3	Benzo(a)anthracene	U	36.5	ug/kg	10.9	36.5
218-01-9	Chrysene	U	36.5	ug/kg	10.9	36.5
205-99-2	Benzo(b)fluoranthene	U	36.5	ug/kg	10.9	36.5
207-08-9	Benzo(k)fluoranthene	U	36.5	ug/kg	10.9	36.5
50-32-8	Benzo(a)pyrene	U	36.5	ug/kg	10.9	36.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.5	ug/kg	10.9	36.5
53-70-3	Dibenzo(a,h)anthracene	U	36.5	ug/kg	10.9	36.5
191-24-2	Benzo(ghi)perylene	U	36.5	ug/kg	10.9	36.5

"Data Validation Copy"

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201086 METHOD TYPE: SW846

SAMPLE ID: 201086003 CLIENT ID: AK0519

CONTRACT: SAIC007202

MATRIX: S DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS: 90.4

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	28500	ug/kg			P	434	1	OPTIMA5	012408-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201086	Date Collected:	01/16/2008 09:26	Matrix:	SOIL
Lab Sample ID:	201086002	Date Received:	01/17/2008 09:30	% Moisture:	18.4
		Client:	SA1C072	Project:	SA1C007202
Client ID:	AK0619	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	721963	Inst:	VOA4.I	Dilution:	50
Run Date:	01/28/2008 17:49	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/15/2008 12:12	Aliquot:	5 g	Final Volume:	10 mL
Data File:	4v117.d	Column:	RTX-VOLATILES	Level:	MED

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	123 UJ	ug/kg GOZ	40.4	123
108-88-3	Toluene		589 J	ug/kg	35.5	123
100-41-4	Ethylbenzene		412	ug/kg	24.5	123
1330-20-7	Xylenes (total)		1860	ug/kg	24.5	123

"Data Validation Copy"

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201086	Date Collected:	01/16/2008 09:26	Matrix:	SOIL
Lab Sample ID:	201086002	Date Received:	01/17/2008 09:30	% Moisture:	18.4
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0619	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	719185	Inst:	MSD2.I	Dilution:	1
Run Date:	01/19/2008 02:22	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/18/2008 15:58	Aliquot:	30.15 g	Final Volume:	1 mL
Data File:	s2a1829.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	40.6 U	ug/kg	13.6	40.6
129-00-0	Pyrene	U	40.6	ug/kg	12.8	40.6
91-20-3	Naphthalene	U	40.6	ug/kg	12.2	40.6
91-57-6	2-Methylnaphthalene	J	21.1 J	ug/kg	8.13	40.6
91-58-7	2-Chloronaphthalene	U	40.6 U	ug/kg	14.2	40.6
208-96-8	Acenaphthylene	U	40.6	ug/kg	12.2	40.6
86-73-7	Fluorene	U	40.6	ug/kg	12.2	40.6
85-01-8	Phenanthrene	U	40.6	ug/kg	12.2	40.6
120-12-7	Anthracene	U	40.6	ug/kg	8.13	40.6
206-44-0	Fluoranthene	U	40.6	ug/kg	12.2	40.6
56-55-3	Benzo(a)anthracene	U	40.6	ug/kg	12.2	40.6
218-01-9	Chrysene	U	40.6	ug/kg	12.2	40.6
205-99-2	Benzo(b)fluoranthene	U	40.6	ug/kg	12.2	40.6
207-08-9	Benzo(k)fluoranthene	U	40.6	ug/kg	12.2	40.6
50-32-8	Benzo(a)pyrene	U	40.6	ug/kg	12.2	40.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	40.6	ug/kg	12.2	40.6
53-70-3	Dibenzo(a,h)anthracene	U	40.6	ug/kg	12.2	40.6
191-24-2	Benzo(ghi)perylene	U	40.6	ug/kg	12.2	40.6

"Data Validation Copy"

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201086 METHOD TYPE: SW846

SAMPLE ID: 201086002 CLIENT ID: AK0619

CONTRACT: SAIC007202

MATRIX: S DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS: 82

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	25400	ug/kg			P	479	1	OPTIMA3	012408-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201086	Date Collected:	01/16/2008 08:20	Matrix:	SOIL
Lab Sample ID:	201086001	Date Received:	01/17/2008 09:30	% Moisture:	12.2
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0719	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	721963	Inst:	VOA4.I	Dilution:	1
Run Date:	01/28/2008 20:38	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/15/2008 12:06	Aliquot:	5.4 g	Final Volume:	5 mL
Data File:	4v123.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.05 UA	ug/kg	0.348	1.05
108-88-3	Toluene	U	1.05	ug/kg	0.306	1.05
100-41-4	Ethylbenzene	U	1.05	ug/kg	0.211	1.05
1330-20-7	Xylenes (total)	J	0.348 J	ug/kg	0.211	1.05

"Data Validation Copy"

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201086	Date Collected:	01/16/2008 08:20	Matrix:	SOIL
Lab Sample ID:	201086001	Date Received:	01/17/2008 09:30	% Moisture:	12.2
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0719	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	719185	Inst:	MSD2.I	Dilution:	1
Run Date:	01/19/2008 02:01	Analyst:	AGSI	Inj. Vol:	.5 uL
Prep Date:	01/18/2008 15:58	Aliquot:	30.43 g	Final Volume:	1 mL
Data File:	s2a1828.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	37.4 U	ug/kg	12.5	37.4
129-00-0	Pyrene	U	37.4	ug/kg	11.8	37.4
91-20-3	Naphthalene	U	37.4	ug/kg	11.2	37.4
91-57-6	2-Methylnaphthalene	U	37.4	ug/kg	7.49	37.4
91-58-7	2-Chloronaphthalene	U	37.4	ug/kg	13.1	37.4
208-96-8	Acenaphthylene	U	37.4	ug/kg	11.2	37.4
86-73-7	Fluorene	U	37.4	ug/kg	11.2	37.4
85-01-8	Phenanthrene	U	37.4	ug/kg	11.2	37.4
120-12-7	Anthracene	U	37.4	ug/kg	7.49	37.4
206-44-0	Fluoranthene	U	37.4	ug/kg	11.2	37.4
56-55-3	Benzo(a)anthracene	U	37.4	ug/kg	11.2	37.4
218-01-9	Chrysene	U	37.4	ug/kg	11.2	37.4
205-99-2	Benzo(b)fluoranthene	U	37.4	ug/kg	11.2	37.4
207-08-9	Benzo(k)fluoranthene	U	37.4	ug/kg	11.2	37.4
50-32-8	Benzo(a)pyrene	U	37.4	ug/kg	11.2	37.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.4	ug/kg	11.2	37.4
53-70-3	Dibenzo(a,h)anthracene	U	37.4	ug/kg	11.2	37.4
191-24-2	Benzo(ghi)perylene	U	37.4	ug/kg	11.2	37.4

"Data Validation Copy"

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201086

SAMPLE ID: 201086001

CONTRACT: SAIC007202

MATRIX:S

DATE RECEIVED 17-JAN-08

CAS No	Analyte	Result	Units	C	Qual	M	MDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	1370	ug/kg			P	455			

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537-1	Date Collected:	01/23/2008 09:12	Matrix:	SOIL
Lab Sample ID:	201540001	Date Received:	01/24/2008 15:05	%Moisture:	9.9
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK0819	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723846	Inst:	VOA9.I	Dilution:	50
Run Date:	02/06/2008 15:53	Analyst:	RXYJ	Purge Vol:	5 mL
Prep Date:	01/25/2008 07:42	Aliquot:	5.5 g	Final Volume:	10 mL
Data File:	9w314.d	Column:	RTX-Volatiles	Level:	MED

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	101 U	ug/kg	33.3	101
108-88-3	Toluene	J	65.9 J	ug/kg	29.3	101
100-41-4	Ethylbenzene		1360 =	ug/kg	20.2	101
1330-20-7	Xylenes (total)		1810 =	ug/kg	20.2	101

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537-1	Date Collected:	01/23/2008 09:12	Matrix:	SOIL
Lab Sample ID:	201540001	Date Received:	01/24/2008 15:05	%Moisture:	9.9
		Client:	SAJC085	Project:	SAJC08507
Client ID:	AK0819	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6.I	Dilution:	1
Run Date:	01/29/2008 12:01	Analyst:	JLDI	Inj. Vol:	5 uL
Prep Date:	01/28/2008 19:37	Aliquot:	30.05 g	Final Volume:	1 mL
Data File:	s6a2908.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	36.9 U	ug/kg	12.3	36.9
129-00-0	Pyrene	J	12.9 J	ug/kg	11.6	36.9
91-20-3	Naphthalene	U	36.9 U	ug/kg	11.1	36.9
91-57-6	2-Methylnaphthalene	E	63.4 = Fol	ug/kg Fo8	7.39	36.9
91-58-7	2-Chloronaphthalene	U	36.9 U	ug/kg	12.9	36.9
208-96-8	Acenaphthylene	U	36.9 U	ug/kg	11.1	36.9
86-73-7	Fluorene	J	11.6 J	ug/kg	11.1	36.9
85-01-8	Phenanthrene	J	29.4 J	ug/kg	11.1	36.9
120-12-7	Anthracene	U	36.9 U	ug/kg	7.39	36.9
206-44-0	Fluoranthene	J	28.0 J	ug/kg	11.1	36.9
56-55-3	Benzo(a)anthracene	U	36.9 U	ug/kg	11.1	36.9
218-01-9	Chrysene	U	36.9	ug/kg	11.1	36.9
205-99-2	Benzo(b)fluoranthene	U	36.9	ug/kg	11.1	36.9
207-08-9	Benzo(k)fluoranthene	U	36.9	ug/kg	11.1	36.9
50-32-8	Benzo(a)pyrene	U	36.9	ug/kg	11.1	36.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.9	ug/kg	11.1	36.9
53-70-3	Dibenzo(a,h)anthracene	U	36.9	ug/kg	11.1	36.9
191-24-2	Benzo(ghi)perylene	U	36.9	ug/kg	11.1	36.9

DATA VALIDATION COPY

METALS

INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537-1 METHOD TYPE: SW846

SAMPLE ID: 201540001 CLIENT ID: AK0819

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 24-JAN-0[illegible] LEVEL: Low %SOLIDS: 90.[illegible]

CAS No	Analyte	Result	Units	C	Qua	M	IDL	DL	Instrument ID	Analytical Run
7439-92-1	Lead	5.4	mg/kg			M	0.011	1	ICPMS[illegible]	08C204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537-1	Date Collected:	01/23/2008 10:37	Matrix:	SOIL
Lab Sample ID:	201540002	Date Received:	01/24/2008 15:05	% Moisture:	16.5
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK0919	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723846	Inst:	VOA9.I	Dilution:	1
Run Date:	02/04/2008 17:18	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	01/25/2008 07:45	Aliquot:	5.6 g	Final Volume:	5 mL
Data File:	9w117.d	Column:	RTX-Volatiles	Level:	LOW

USQ

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.07 U	ug/kg	0.353	1.07
108-88-3	Toluene		2.82 J Gol	ug/kg	0.310	1.07
100-41-4	Ethylbenzene	D	~~E~~ 1950 ~~645~~ =	ug/kg	0.214	1.07
1330-20-7	Xylenes (total)	D	~~E~~ 2370 ~~798~~ =	ug/kg	0.214	1.07

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537-1	Date Collected:	01/23/2008 10:37	Matrix:	SOIL
Lab Sample ID:	201540002	Date Received:	01/24/2008 15:05	% Moisture:	16.5
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK0919	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6.1	Dilution:	1
Run Date:	01/29/2008 12:23	Analyst:	JLD1	Inj. Vol:	.5 ul.
Prep Date:	01/28/2008 19:37	Aliquot:	30.02 g	Final Volume:	1 mL
Data File:	s6a2909.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	39.9 U	ug/kg	15.3	39.9
129-00-0	Pyrene	U	39.9	ug/kg	12.0	39.9
91-20-3	Naphthalene	U	39.9	ug/kg	12.0	39.9
91-57-6	2-Methylnaphthalene	E	134 = F01,	ug/kg F08	7.98	39.9
91-58-7	2-Chloronaphthalene	U	39.9 U	ug/kg	12.0	39.9
208-96-8	Acenaphthylene	U	39.9 U	ug/kg	12.0	39.9
86-73-7	Fluorene		55.5 =	ug/kg	12.0	39.9
85-01-8	Phenanthrene		47.0 =	ug/kg	12.0	39.9
120-12-7	Anthracene	J	10.0 J	ug/kg	7.98	39.9
206-44-0	Fluoranthene	J	15.2 J	ug/kg	12.0	39.9
56-55-3	Benzo(a)anthracene	U	39.9 U	ug/kg	12.0	39.9
218-01-9	Chrysene	U	39.9	ug/kg	12.0	39.9
205-99-2	Benzo(b)fluoranthene	U	39.9	ug/kg	12.0	39.9
207-08-9	Benzo(k)fluoranthene	U	39.9	ug/kg	12.0	39.9
50-32-8	Benzo(a)pyrene	U	39.9	ug/kg	12.0	39.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	39.9	ug/kg	12.0	39.9
53-70-3	Dibenzo(a,h)anthracene	U	39.9	ug/kg	12.0	39.9
191-24-2	Benzo(ghi)perylene	U	39.9	ug/kg	12.0	39.9

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537-1 METHOD TYPE: SW846

SAMPLE ID: 201540002 CLIENT ID: AK0919

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 24-JAN-08 LEVEL: Low %SOLIDS: 84

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	11	mg/kg			MS	0.012	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 10:10	Matrix:	GROUND WATER
Lab Sample ID:	201537003	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK0915 RINSATE	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723384	Inst:	VOA2.I	Dilution:	1
Run Date:	02/04/2008 15:25	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/04/2008 15:25				
Data File:	2w117.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene		2.83 =	ug/L	0.250	1.00
100-41-4	Ethylbenzene		2.83 =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)		10.9 =	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 10:10	Matrix:	GROUND WATER
Lab Sample ID:	201537003	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK0915 RINSATE	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721970	Inst:	MSD5.I	Dilution:	1
Run Date:	01/29/2008 16:06	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 17:06	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s5a2922.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	U	1.00	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-3-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537 METHOD TYPE: SW846

SAMPLE ID: 201537005 - RINSATE CLIENT ID: AK0915

CONTRACT: SAIC08507

MATRIX:G DATE RECEIVED 24-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	0.40 J	ug/L	E		MS	0.05	1	ICPMS6	080131-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/24/2008 08:21	Matrix:	SOIL
Lab Sample ID:	201683001	Date Received:	01/25/2008 14:07	%Moisture:	6.8
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1019	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4.1	Dilution:	1
Run Date:	02/07/2008 18:15	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/28/2008 13:25	Aliquot:	4.8 g	Final Volume:	5 mL
Data File:	4w405.d	Column:	RTX-VOLATILES	Level:	LOW

USE

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	Uh	1.12 UJ	ug/kg A05	0.369	1.12
108-88-3	Toluene	h	2.62 J	ug/kg	0.324	1.12
100-41-4	Ethylbenzene	Dh h	015 ~~85.9~~ J	ug/kg	0.223	1.12
1330-20-7	Xylenes (total)	Dh h	1030 ~~300~~ J	ug/kg	0.223	1.12

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/24/2008 08:21	Matrix:	SOIL
Lab Sample ID:	201683001	Date Received:	01/25/2008 14:07	%Moisture:	6.8
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1019	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6.I	Dilution:	1
Run Date:	01/29/2008 13:29	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 19:37	Aliquot:	30.04 g	Final Volume:	1 mL
Data File:	s6a2912.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	35.7 U	ug/kg	11.9	35.7
129-00-0	Pyrene	U	35.7	ug/kg	11.2	35.7
91-20-3	Naphthalene	U	35.7	ug/kg	10.7	35.7
91-57-6	2-Methylnaphthalene	B	133 = F01,	ug/kg F08	7.14	35.7
91-58-7	2-Chloronaphthalene	U	35.7 U	ug/kg	12.5	35.7
208-96-8	Acenaphthylene	U	35.7 U	ug/kg	10.7	35.7
86-73-7	Fluorene		37.4 =	ug/kg	10.7	35.7
85-01-8	Phenanthrene	J	11.8 J	ug/kg	10.7	35.7
120-12-7	Anthracene	U	35.7 U	ug/kg	7.14	35.7
206-44-0	Fluoranthene	U	35.7	ug/kg	10.7	35.7
56-55-3	Benzo(a)anthracene	U	35.7	ug/kg	10.7	35.7
218-01-9	Chrysene	U	35.7	ug/kg	10.7	35.7
205-99-2	Benzo(b)fluoranthene	U	35.7	ug/kg	10.7	35.7
207-08-9	Benzo(k)fluoranthene	U	35.7	ug/kg	10.7	35.7
50-32-8	Benzo(a)pyrene	U	35.7	ug/kg	10.7	35.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.7	ug/kg	10.7	35.7
53-70-3	Dibenzo(a,h)anthracene	U	35.7	ug/kg	10.7	35.7
191-24-2	Benzo(ghi)perylene	U	35.7	ug/kg	10.7	35.7

DATA VALIDATION
COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682-1 METHOD TYPE: SW846

SAMPLE ID: 201683001 CLIENT ID: AK1019

CONTRACT: SAJC08507

MATRIX: S DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS: 93.2

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	24.8	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/24/2008 09:15	Matrix:	SOIL
Lab Sample ID:	201683002	Date Received:	01/25/2008 14:07	% Moisture:	14
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1119	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4.1	Dilution:	250
Run Date:	02/07/2008 08:09	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/28/2008 13:32	Aliquot:	4.9 g	Final Volume:	10 mL
Data File:	4w337.d	Column:	RTX-VOLATILES	Level:	MED

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	Jh	259 J	ug/kg A05, G02	96	594
108-88-3	Toluene	h	52000	ug/kg	172	594
100-41-4	Ethylbenzene	h	16200	ug/kg	119	594
1330-20-7	Xylenes (total)	h	74000	ug/kg	116	594

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/24/2008 09:15	Matrix:	SOIL
Lab Sample ID:	201683002	Date Received:	01/25/2008 14:07	% Moisture:	14
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1119	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6J	Dilution:	1
Run Date:	01/29/2008 13:52	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 19:37	Aliquot:	30.09 g	Final Volume:	1 mL
Data File:	s6a2913.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	38.7 U	ug/kg	12.9	38.7
129-00-0	Pyrene		62.0 =	ug/kg	12.1	38.7
91-20-3	Naphthalene	J	37.6 J	ug/kg	11.6	38.7
91-57-6	2-Methylnaphthalene	B	27? =	F01, ug/kg F08	7.73	38.7
91-58-7	2-Chloronaphthalene	U	38.7 U	ug/kg	13.5	38.7
208-96-8	Acenaphthylene	U	38.7 U	ug/kg	11.6	38.7
86-73-7	Fluorene		43.2 =	ug/kg	11.6	38.7
85-01-8	Phenanthrene		101 =	ug/kg	11.6	38.7
120-12-7	Anthracene	J	20.3 J	ug/kg	7.73	38.7
206-44-0	Fluoranthene		106 =	ug/kg	11.6	38.7
56-55-3	Benzo(a)anthracene	U	38.7 U	ug/kg	11.6	38.7
218-01-9	Chrysene	U	38.7 U	ug/kg	11.6	38.7
205-99-2	Benzo(b)fluoranthene	J	15.2 J	ug/kg	11.6	38.7
207-08-9	Benzo(k)fluoranthene	U	38.7 U	ug/kg	11.6	38.7
50-32-8	Benzo(a)pyrene	U	38.7	ug/kg	11.6	38.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.7	ug/kg	11.6	38.7
53-70-3	Dibenzo(a,h)anthracene	U	38.7	ug/kg	11.6	38.7
191-24-2	Benzo(ghi)perylene	U	38.7	ug/kg	11.6	38.7

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682-1 METHOD TYPE: SW846

SAMPLE ID: 201683002 CLIENT ID: AK1119

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS: 86

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	26.7	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-3	Date Collected:	01/24/2008 10:12	Matrix:	SOIL
Lab Sample ID:	201683003	Date Received:	01/25/2008 14:07	% Moisture:	9
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1219	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4J	Dilution:	1
Run Date:	02/06/2008 17:23	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/28/2008 13:34	Aliquot:	4.7 g	Final Volume:	5 mL
Data File:	4w310.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	UL	1.17 UJ	ug/kg A05	0.386	1.17
108-88-3	Toluene	UL	1.17 UJ	ug/kg	0.336	1.17
100-41-4	Ethylbenzene	JL	0.315 J	ug/kg	0.234	1.17
1330-20-7	Xylenes (total)	L	1.36 J	ug/kg	0.234	1.17

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	**Date Collected:**	01/24/2008 10:12	**Matrix:**	SOIL
Lab Sample ID:	201683003	**Date Received:**	01/25/2008 14:07	**% Moisture:**	9
		Client:	SA1C085	**Project:**	SA1C08507
Client ID:	AK1219	**Method:**	SW846 8270C	**SOP Ref:**	GL-OA-E-009
Batch ID:	721999	**Inst:**	MSD6.1	**Dilution:**	1
Run Date:	01/29/2008 14:14	**Analyst:**	JLD1	**Inj. Vol:**	.5 ul.
Prep Date:	01/28/2008 19:37	**Aliquot:**	30.02 g	**Final Volume:**	1 ml.
Data File:	s6a2914.d	**Column:**	J&W DB-5MS	**Level:**	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	36.6 U	ug/kg	12.2	36.6
129-00-0	Pyrene	J	26.0 J	ug/kg	11.5	36.6
91-20-3	Naphthalene	U	36.6 U	ug/kg	11.0	36.6
91-57-6	2-Methylnaphthalene	BJ	36.6 U F01,	ug/kg F06	3.22	36.6
91-58-7	2-Chloronaphthalene	U	36.6 U	ug/kg	12.3	36.6
208-96-8	Acenaphthylene	U	36.6	ug/kg	11.0	36.6
86-73-7	Fluorene	U	36.6	ug/kg	11.0	36.6
85-01-8	Phenanthrene		38.1 =	ug/kg	11.0	36.6
120-12-7	Anthracene	U	36.6 U	ug/kg	7.22	36.6
206-44-0	Fluoranthene		48.2 =	ug/kg	11.0	36.6
56-55-3	Benzo(a)anthracene	U	36.6 U	ug/kg	11.0	36.6
218-01-9	Chrysene	U	36.6	ug/kg	11.0	36.6
205-99-2	Benzo(b)fluoranthene	U	36.6	ug/kg	11.0	36.6
207-08-9	Benzo(k)fluoranthene	U	36.6	ug/kg	11.0	36.6
50-32-8	Benzo(a)pyrene	U	36.6	ug/kg	11.0	36.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.6	ug/kg	11.0	36.6
53-70-3	Dibenzo(a,h)anthracene	U	36.6	ug/kg	11.0	36.6
191-24-2	Benzo(ghi)perylene	U	36.6	ug/kg	11.0	36.6

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682-1 METHOD TYPE: SW846

SAMPLE ID: 201683003 CLIENT ID: AK1219

CONTRACT: SAJC08507

MATRIX:S DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS: 91

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	5.1	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	203682-1	Date Collected:	01/24/2008 11:08	Matrix:	SOIL
Lab Sample ID:	203683004	Date Received:	01/25/2008 14:07	% Moisture:	6.1
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1319	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4J	Dilution:	1
Run Date:	02/06/2008 17:51	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/28/2008 13:37	Aliquot:	4.7 g	Final Volume:	5 mL
Data File:	4w311.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	Uh	1.13 U5	ug/kg 105	0.374	1.13
108-88-3	Toluene	Jh	0.540 J	ug/kg	0.329	1.13
100-41-4	Ethylbenzene	Jh	0.342 J	ug/kg	0.227	1.13
1330-20-7	Xylenes (total)	h	1.76 J	ug/kg	0.227	1.13

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-3	Date Collected:	01/24/2008 11:08	Matrix:	SOIL
Lab Sample ID:	201683004	Date Received:	01/25/2008 14:07	% Moisture:	6.1
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1319	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6.1	Dilution:	1
Run Date:	01/29/2008 14:36	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 19:37	Aliquot:	30.08 g	Final Volume:	1 mL
Data File:	s6a2915.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	35.4 U	ug/kg	11.8	35.4
129-00-0	Pyrene	U	35.4	ug/kg	11.1	35.4
91-20-3	Naphthalene	U	35.4	ug/kg	10.6	35.4
91-57-6	2-Methylnaphthalene	BJ 35.4	8.82 U F01,	ug/kg F06	7.08	35.4
91-58-7	2-Chloronaphthalene	U	35.4 U	ug/kg	12.4	35.4
208-96-8	Acenaphthylene	U	35.4	ug/kg	10.6	35.4
86-73-7	Fluorene	U	35.4	ug/kg	10.6	35.4
85-01-8	Phenanthrene	U	35.4	ug/kg	10.6	35.4
120-12-7	Anthracene	U	35.4	ug/kg	7.08	35.4
206-44-0	Fluoranthene	U	35.4	ug/kg	10.6	35.4
56-55-3	Benzo(a)anthracene	U	35.4	ug/kg	10.6	35.4
218-01-9	Chrysene	U	35.4	ug/kg	10.6	35.4
205-99-2	Benzo(b)fluoranthene	U	35.4	ug/kg	10.6	35.4
207-08-9	Benzo(k)fluoranthene	U	35.4	ug/kg	10.6	35.4
50-32-8	Benzo(a)pyrene	U	35.4	ug/kg	10.6	35.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.4	ug/kg	10.6	35.4
53-70-3	Dibenzo(a,h)anthracene	U	35.4	ug/kg	10.6	35.4
191-24-2	Benzo(ghi)perylene	U	35.4	ug/kg	10.6	35.4

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682-1 METHOD TYPE: SW846

SAMPLE ID: 201683004 CLIENT ID: AK1319

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS: 93.9

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	2.2	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537-1	Date Collected:	01/23/2008 11:47	Matrix:	SOIL
Lab Sample ID:	201540003	Date Received:	01/24/2008 15:05	% Moisture:	10
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1419	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723846	Inst:	VOA9.I	Dilution:	1
Run Date:	02/06/2008 14:25	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	01/25/2008 07:51	Aliquot:	5.2 g	Final Volume:	5 mL
Data File:	9w311.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.07 U	ug/kg	0.353	1.07
108-88-3	Toluene	U	1.07 U	ug/kg	0.310	1.07
100-41-4	Ethylbenzene		26.8 =	ug/kg	0.214	1.07
1330-20-7	Xylenes (total)		59.3 =	ug/kg	0.214	1.07

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537-1	Date Collected:	01/23/2008 11:47	Matrix:	SOIL
Lab Sample ID:	201540003	Date Received:	01/24/2008 15:05	% Moisture:	10
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1419	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6.1	Dilution:	1
Run Date:	01/29/2008 12:45	Analyst:	JLD1	Inj. Vol:	2 ul.
Prep Date:	01/28/2008 19:37	Aliquot:	30 g	Final Volume:	1 ml.
Data File:	s6a2910.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	37.0 U	ug/kg	12.4	37.0
129-00-0	Pyrene	U	37.0	ug/kg	11.1	37.0
91-20-3	Naphthalene	U	37.0	ug/kg	11.1	37.0
91-57-6	2-Methylnaphthalene	BJ	37 ~~37.0~~ U F01,	ug/kg F06	7.41	37.0
91-58-7	2-Chloronaphthalene	U	37.0 U	ug/kg	13.0	37.0
208-96-8	Acenaphthylene	U	37.0	ug/kg	11.1	37.0
86-73-7	Fluorene	U	37.0	ug/kg	11.1	37.0
85-01-8	Phenanthrene	U	37.0	ug/kg	11.1	37.0
120-12-7	Anthracene	U	37.0	ug/kg	7.41	37.0
206-44-0	Fluoranthene	U	37.0	ug/kg	11.1	37.0
56-55-3	Benzo(a)anthracene	U	37.0	ug/kg	11.1	37.0
218-01-9	Chrysene	U	37.0	ug/kg	11.1	37.0
205-99-2	Benzo(b)fluoranthene	U	37.0	ug/kg	11.1	37.0
207-08-9	Benzo(k)fluoranthene	U	37.0	ug/kg	11.1	37.0
50-32-8	Benzo(a)pyrene	U	37.0	ug/kg	11.1	37.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.0	ug/kg	11.1	37.0
53-70-3	Dibenzo(a,h)anthracene	U	37.0	ug/kg	11.1	37.0
191-24-2	Benzo(ghi)perylene	U	37.0	ug/kg	11.1	37.0

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537-1 METHOD TYPE: SW846

SAMPLE ID: 201540003 CLIENT ID: AK1419

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 24-JAN-08 LEVEL: Low %SOLIDS: 90

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	14.8	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537-1	Date Collected:	01/23/2008 12:43	Matrix:	SOIL
Lab Sample ID:	201540004	Date Received:	01/24/2008 15:05	%Moisture:	12.8
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1519	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723846	Inst:	VOA9.I	Dilution:	1
Run Date:	02/04/2008 18:13	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	01/25/2008 07:55	Aliquot:	5.1 g	Final Volume:	5 mL
Data File:	9w119.d	Column:	RTX-Volatiles	Level:	LOW

USR

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.12 U	ug/kg	0.371	1.12
108-88-3	Toluene	E	827 J N03	ug/kg	0.326	1.12
100-41-4	Ethylbenzene	E	615 J N03	ug/kg	0.225	1.12
1330-20-7	Xylenes (total)	DJ E 76	1820 J	ug/kg	0.225	1.12

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/23/2008 12:43	Matrix:	SOIL
Lab Sample ID:	201683009	Date Received:	01/25/2008 14:07	% Moisture:	12.8
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1519	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6.I	Dilution:	1
Run Date:	01/29/2008 17:08	Analyst:	JLDI	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 19:37	Aliquot:	30.03 g	Final Volume:	1 mL
Data File:	s6a2922.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	38.2 U	ug/kg	12.7	38.2
129-00-0	Pyrene	U	38.2	ug/kg	12.0	38.2
91-20-3	Naphthalene	U	38.2	ug/kg	11.5	38.2
91-57-6	2-Methylnaphthalene	BJ	38.2 ~~31.8~~ U F01,	ug/kg F06	7.63	38.2
91-58-7	2-Chloronaphthalene	U	38.2 U	ug/kg	13.4	38.2
208-96-8	Acenaphthylene	U	38.2	ug/kg	11.5	38.2
86-73-7	Fluorene	U	38.2	ug/kg	11.5	38.2
85-01-8	Phenanthrene	U	38.2	ug/kg	11.5	38.2
120-12-7	Anthracene	U	38.2	ug/kg	7.63	38.2
206-44-0	Fluoranthene	J	18.8 J	ug/kg	11.5	38.2
56-55-3	Benzo(a)anthracene	U	38.2 U	ug/kg	11.5	38.2
218-01-9	Chrysene	U	38.2	ug/kg	11.5	38.2
205-99-2	Benzo(b)fluoranthene	U	38.2	ug/kg	11.5	38.2
207-08-9	Benzo(k)fluoranthene	U	38.2	ug/kg	11.5	38.2
50-32-8	Benzo(a)pyrene	U	38.2	ug/kg	11.5	38.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.2	ug/kg	11.5	38.2
53-70-3	Dibenzo(a,h)anthracene	U	38.2	ug/kg	11.5	38.2
191-24-2	Benzo(ghi)perylene	U	38.2	ug/kg	11.5	38.2

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682-1 METHOD TYPE: SW846

SAMPLE ID: 201683009 CLIENT ID: AK1519

CONTRACT: SAJC08507

MATRIX: S DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS: 87

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	27	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/24/2008 13:01	Matrix:	SOIL
Lab Sample ID:	201683005	Date Received:	01/25/2008 14:07	% Moisture:	24.7
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1619	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4.I	Dilution:	1
Run Date:	02/06/2008 18:18	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/28/2008 13:41	Aliquot:	5.3 g	Final Volume:	5 mL
Data File:	4w312.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	Uh	1.25 U5	ug/kg A05	0.413	1.25
108-88-3	Toluene	h	4.38 J	ug/kg	0.363	1.25
100-41-4	Ethylbenzene	h	48.9 J	ug/kg	0.251	1.25
1330-20-7	Xylenes (total)	h	245 J	ug/kg	0.251	1.25

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/24/2008 13:01	Matrix:	SOIL
Lab Sample ID:	201683005	Date Received:	01/25/2008 14:07	% Moisture:	24.7
		Client:	SA1C085	Project:	SA1C08S07
Client ID:	AK1619	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6.I	Dilution:	1
Run Date:	01/29/2008 14:58	Analyst:	JLD3	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 19:37	Aliquot:	30.06 g	Final Volume:	1 mL
Data File:	s6a2916.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	44.2 U	ug/kg	14.8	44.2
129-00-0	Pyrene	U	44.2	ug/kg	13.9	44.2
91-20-3	Naphthalene	U	44.2	ug/kg	13.3	44.2
91-57-6	2-Methylnaphthalene	B	49.1 U F01,	ug/kg F07	8.83	44.2
91-58-7	2-Chloronaphthalene	U	44.2 U	ug/kg	15.5	44.2
208-96-8	Acenaphthylene	U	44.2 U	ug/kg	13.3	44.2
86-73-7	Fluorene	J	22.5 J	ug/kg	13.3	44.2
85-01-8	Phenanthrene	U	44.2 U	ug/kg	13.3	44.2
120-12-7	Anthracene	U	44.2	ug/kg	8.83	44.2
206-44-0	Fluoranthene	U	44.2	ug/kg	13.3	44.2
56-55-3	Benzo(a)anthracene	U	44.2	ug/kg	13.3	44.2
218-01-9	Chrysene	U	44.2	ug/kg	13.3	44.2
205-99-2	Benzo(b)fluoranthene	U	44.2	ug/kg	13.3	44.2
207-08-9	Benzo(k)fluoranthene	U	44.2	ug/kg	13.3	44.2
50-32-8	Benzo(a)pyrene	U	44.2	ug/kg	13.3	44.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	44.2	ug/kg	13.3	44.2
53-70-3	Dibenzo(a,h)anthracene	U	44.2	ug/kg	13.3	44.2
191-24-2	Benzo(ghi)perylene	U	44.2	ug/kg	13.3	44.2

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682-1 METHOD TYPE: SW846

SAMPLE ID: 201683005 CLIENT ID: AK1619

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS: 75

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	42.3	mg/kg			MS	0.013	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/24/2008 14:07	Matrix:	SOIL
Lab Sample ID:	201683006	Date Received:	01/25/2008 14:07	%Moisture:	4.4
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1719	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4J	Dilution:	1
Run Date:	02/06/2008 18:46	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/28/2008 13:45	Aliquot:	5 g	Final Volume:	5 mL
Data File:	4w313.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	Uh	1.05 US	ug/kg A05	0.345	1.05
108-88-3	Toluene	h	23.6 J	ug/kg	0.303	1.05
100-41-4	Ethylbenzene	h	30.7 J	ug/kg	0.209	1.05
1330-20-7	Xylenes (total)	h	170 J	ug/kg	0.209	1.05

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/24/2008 14:07	Matrix:	SOIL
Lab Sample ID:	201683006	Date Received:	01/25/2008 14:07	% Moisture:	4.4
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1719	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6J	Dilution:	1
Run Date:	01/29/2008 15:19	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 19:37	Aliquot:	30.05 g	Final Volume:	1 mL
Data File:	s6a2917.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	34.8 U	ug/kg	11.6	34.8
129-00-0	Pyrene	U	34.8	ug/kg	10.4	34.8
91-20-3	Naphthalene	U	34.8	ug/kg	10.4	34.8
91-57-6	2-Methylnaphthalene	BJ	34.8 ~~34.2~~ U F01,	ug/kg F06	6.96	34.8
91-58-7	2-Chloronaphthalene	U	34.8 U	ug/kg	12.2	34.8
208-96-8	Acenaphthylene	U	34.8	ug/kg	10.4	34.8
86-73-7	Fluorene	U	34.8	ug/kg	10.4	34.8
85-01-8	Phenanthrene	U	34.8	ug/kg	10.4	34.8
120-12-7	Anthracene	U	34.8	ug/kg	6.96	34.8
206-44-0	Fluoranthene	U	34.8	ug/kg	10.4	34.8
56-55-3	Benzo(a)anthracene	U	34.8	ug/kg	10.4	34.8
218-01-9	Chrysene	U	34.8	ug/kg	10.4	34.8
205-99-2	Benzo(b)fluoranthene	U	34.8	ug/kg	10.4	34.8
207-08-9	Benzo(k)fluoranthene	U	34.8	ug/kg	10.4	34.8
50-32-8	Benzo(a)pyrene	U	34.8	ug/kg	10.4	34.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.8	ug/kg	10.4	34.8
53-70-3	Dibenzo(a,h)anthracene	U	34.8	ug/kg	10.4	34.8
191-24-2	Benzo(ghi)perylene	U	34.8	ug/kg	10.4	34.8

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682-1 METHOD TYPE: SW846

SAMPLE ID: 201683006 CLIENT ID: AK1719

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS: 95.6

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	33.6	mg/kg			MS	0.01	2	ICPMS5	080204-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-3	Date Collected:	01/24/2008 15:08	Matrix:	SOIL
Lab Sample ID:	201683007	Date Received:	01/25/2008 14:07	% Moisture:	17.6
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1819	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4.I	Dilution:	1
Run Date:	02/06/2008 19:14	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/28/2008 13:48	Aliquot:	4.8 g	Final Volume:	5 mL
Data File:	4w314.d	Column:	RTX-VOLATILES	Level:	LOW

USC

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	Uh	1.26 UJ	ug/kg A05	0.417	1.26
108-88-3	Toluene	h	32.6 J	ug/kg	0.567	1.26
100-41-4	Ethylbenzene	Dh Eh	142 ~~30~~ J	ug/kg	0.253	1.26
1330-20-7	Xylenes (total)	Dh %	433 ~~1220~~ J	ug/kg	0.253	1.26

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/24/2008 15:08	Matrix:	SOIL
Lab Sample ID:	201683007	Date Received:	01/25/2008 14:07	% Moisture:	17.6
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1819	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6.1	Dilution:	1
Run Date:	01/29/2008 15:41	Analyst:	JLD1	Inj. Vol:	.5 ul
Prep Date:	01/28/2008 19:37	Aliquot:	30.08 g	Final Volume:	1 mL
Data File:	s6a2918.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	J	17.5 J	ug/kg	12.1	40.3
129-00-0	Pyrene		69.3 =	ug/kg	12.7	40.3
91-20-3	Naphthalene	U	40.3 U	ug/kg	12.1	40.3
91-57-6	2-Methylnaphthalene	B	165 = F01,	ug/kg F08	8.07	40.3
91-58-7	2-Chloronaphthalene	U	40.3 U	ug/kg	14.1	40.3
208-96-8	Acenaphthylene	U	40.3 U	ug/kg	12.1	40.3
86-73-7	Fluorene	J	31.9 J	ug/kg	12.1	40.3
85-01-8	Phenanthrene		136 =	ug/kg	12.1	40.3
120-12-7	Anthracene	J	23.7 J	ug/kg	8.07	40.3
206-44-0	Fluoranthene		125 =	ug/kg	12.1	40.3
56-55-3	Benzo(a)anthracene	U	40.3 U	ug/kg	12.1	40.3
218-01-9	Chrysene	U	40.3 U	ug/kg	12.1	40.3
205-99-2	Benzo(b)fluoranthene	J	21.7 J	ug/kg	12.1	40.3
207-08-9	Benzo(k)fluoranthene	U	40.3 U	ug/kg	12.1	40.3
50-32-8	Benzo(a)pyrene	U	40.3	ug/kg	12.1	40.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	40.3	ug/kg	12.1	40.3
53-70-3	Dibenzo(a,h)anthracene	U	40.3	ug/kg	12.1	40.3
191-24-2	Benzo(ghi)perylene	U	40.3	ug/kg	12.1	40.3

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

METHOD TYPE: SW846

SDG No: 201682-1

CLIENT ID: AK1819

SAMPLE ID: 201683007

CONTRACT: SAIC08507

MATRIX: S

DATE RECEIVED 25-JAN-08

LEVEL: Low %SOLIDS: 82

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	46.2	mg/kg			MS	0.012	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 08:11	Matrix:	SOIL
Lab Sample ID:	201705001	Date Received:	01/26/2008 14:15	%Moisture:	13.1
		Client:	SAIC085	Project:	SAIC08507
		Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Client ID:	AK1919	Inst:	VOA4.I	Dilution:	1
Batch ID:	724297	Analyst:	ACJ	Purge Vol:	5 mL
Run Date:	02/07/2008 11:24	Aliquot:	4.6 g	Final Volume:	5 mL
Prep Date:	01/26/2008 23:24	Column:	RTX-VOLATILES	Level:	LOW
Data File:	4w344.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.25 U	ug/kg	0.413	1.25
108-88-3	Toluene	J	0.547 J G01	ug/kg	0.363	1.25
100-41-4	Ethylbenzene	J	0.348	ug/kg	0.250	1.25
1330-20-7	Xylenes (total)		1.76	ug/kg	0.250	1.25

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 08:11	Matrix:	SOIL
Lab Sample ID:	201705001	Date Received:	01/26/2008 14:15	%Moisture:	13.1
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1919	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	01/31/2008 19:22	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.62 g	Final Volume:	1 mL
Data File:	s5a3109.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	37.6 U	ug/kg	12.5	37.6
129-00-0	Pyrene	U	37.6	ug/kg	11.8	37.6
91-20-3	Naphthalene	U	37.6	ug/kg	11.3	37.6
91-57-6	2-Methylnaphthalene	U	37.6	ug/kg	7.51	37.6
91-58-7	2-Chloronaphthalene	U	37.6	ug/kg	13.1	37.6
208-96-8	Acenaphthylene	U	37.6	ug/kg	11.3	37.6
86-73-7	Fluorene	U	37.6	ug/kg	11.3	37.6
85-01-8	Phenanthrene	U	37.6	ug/kg	11.3	37.6
120-12-7	Anthracene	U	37.6	ug/kg	7.51	37.6
206-44-0	Fluoranthene	U	37.6	ug/kg	11.3	37.6
56-55-3	Benzo(a)anthracene	U	37.6	ug/kg	11.3	37.6
218-01-9	Chrysene	U	37.6	ug/kg	11.3	37.6
205-99-2	Benzo(b)fluoranthene	U	37.6	ug/kg	11.3	37.6
207-08-9	Benzo(k)fluoranthene	U	37.6	ug/kg	11.3	37.6
50-32-8	Benzo(a)pyrene	U	37.6	ug/kg	11.3	37.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.6	ug/kg	11.3	37.6
53-70-3	Dibenzo(a,h)anthracene	U	37.6	ug/kg	11.3	37.6
191-24-2	Benzo(ghi)perylene	U	37.6	ug/kg	11.3	37.6

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705 **METHOD TYPE:** SW846

SAMPLE ID: 201705001 **CLIENT ID:** AK1919

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 26-JAN-08 **LEVEL:** Low **%SOLIDS:** 87

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	2.5	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537-1	Date Collected:	01/23/2008 14:41	Matrix:	SOIL
Lab Sample ID:	201540006	Date Received:	01/24/2008 15:05	%Moisture:	8.3
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2019	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723846	Inst:	VOA9.1	Dilution:	1
Run Date:	02/06/2008 13:29	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	01/25/2008 08:46	Aliquot:	5.1 g	Final Volume:	5 mL
Data File:	9w309.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.07 U	ug/kg	0.353	1.07
108-88-3	Toluene	U	1.07 U	ug/kg	0.310	1.07
100-41-4	Ethylbenzene	U	1.07 U	ug/kg	0.214	1.07
1330-20-7	Xylenes (total)	J	0.443 J	ug/kg	0.214	1.07

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/23/2008 14:41	Matrix:	SOIL
Lab Sample ID:	201683008	Date Received:	01/25/2008 14:07	% Moisture:	8.3
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK2019	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6.I	Dilution:	1
Run Date:	01/29/2008 16:03	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 19:37	Aliquot:	30.09 g	Final Volume:	1 mL
Data File:	s6a2919.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	J	29.6 J	ug/kg	12.1	36.2
129-00-0	Pyrene	U	36.2 U	ug/kg	11.4	36.2
91-20-3	Naphthalene	U	36.2 U	ug/kg	10.9	36.2
91-57-6	2-Methylnaphthalene	B	245 = F01, F08	ug/kg	7.25	36.2
91-58-7	2-Chloronaphthalene	U	36.2 U	ug/kg	12.7	36.2
208-96-8	Acenaphthylene	U	36.2 U	ug/kg	10.9	36.2
86-73-7	Fluorene	J	13.7 J	ug/kg	10.9	36.2
85-01-8	Phenanthrene	U	36.2 U	ug/kg	10.9	36.2
120-12-7	Anthracene	U	36.2	ug/kg	7.25	36.2
206-44-0	Fluoranthene	U	36.2	ug/kg	10.9	36.2
56-55-3	Benzo(a)anthracene	U	36.2	ug/kg	10.9	36.2
218-01-9	Chrysene	U	36.2	ug/kg	10.9	36.2
205-99-2	Benzo(b)fluoranthene	U	36.2	ug/kg	10.9	36.2
207-08-9	Benzo(k)fluoranthene	U	36.2	ug/kg	10.9	36.2
50-32-8	Benzo(a)pyrene	U	36.2	ug/kg	10.9	36.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.2	ug/kg	10.9	36.2
53-70-3	Dibenzo(a,h)anthracene	U	36.2	ug/kg	10.9	36.2
191-24-2	Benzo(ghi)perylene	U	36.2	ug/kg	10.9	36.2

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682-1 METHOD TYPE: SW846

SAMPLE ID: 201683008 CLIENT ID: AK2019

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS: 91.7

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	5.9	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537-3	Date Collected:	01/23/2008 13:59	Matrix:	SOIL
Lab Sample ID:	201540005	Date Received:	01/24/2008 15:05	% Moisture:	7
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2119	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723846	Inst:	VOA9.I	Dilution:	1
Run Date:	02/04/2008 20:06	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	01/25/2008 08:40	Aliquot:	4.7 g	Final Volume:	5 mL
Data File:	9w123.d	Column:	RTX-Volatiles	Level:	LOW

USQ

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.14 U	ug/kg	0.377	1.14
108-88-3	Toluene	D E 513	1340 =	ug/kg	0.332	1.14
100-41-4	Ethylbenzene	D E 1910	1060 =	ug/kg	0.229	1.14
1330-20-7	Xylenes (total)	D E 12200	2640 =	ug/kg	0.229	1.14

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537-1	Date Collected:	01/23/2008 13:59	Matrix:	SOIL
Lab Sample ID:	201540005	Date Received:	01/24/2008 15:05	% Moisture:	7
		Client:	SA1C085	Project:	SAIC08507
Client ID:	AK2119	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6.I	Dilution:	1
Run Date:	01/29/2008 13:07	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 19:37	Aliquot:	30.08 g	Final Volume:	1 mL
Data File:	s6a2911.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	35.7 U	ug/kg	11.9	35.7
129-00-0	Pyrene	J	15.0 J	ug/kg	11.2	35.7
91-20-3	Naphthalene	U	35.7 U	ug/kg	10.7	35.7
91-57-6	2-Methylnaphthalene	B	44.0 U F01,	ug/kg F07	7.15	35.7
91-58-7	2-Chloronaphthalene	U	35.7 U	ug/kg	12.5	35.7
208-96-8	Acenaphthylene	U	35.7 U	ug/kg	10.7	35.7
86-73-7	Fluorene	J	10.8 J	ug/kg	10.7	35.7
85-01-8	Phenanthrene	J	27.4 J	ug/kg	10.7	35.7
120-12-7	Anthracene	U	35.7 U	ug/kg	7.15	35.7
206-44-0	Fluoranthene	J	24.7 J	ug/kg	10.7	35.7
56-55-3	Benzo(a)anthracene	J	11.5 J	ug/kg	10.7	35.7
218-01-9	Chrysene	U	35.7 U	ug/kg	10.7	35.7
205-99-2	Benzo(b)fluoranthene	U	35.7	ug/kg	10.7	35.7
207-08-9	Benzo(k)fluoranthene	U	35.7	ug/kg	10.7	35.7
50-32-8	Benzo(a)pyrene	U	35.7	ug/kg	10.7	35.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.7	ug/kg	10.7	35.7
53-70-3	Dibenzo(a,h)anthracene	U	35.7	ug/kg	10.7	35.7
191-24-2	Benzo(ghi)perylene	U	35.7	ug/kg	10.7	35.7

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537-1 METHOD TYPE: SW846

SAMPLE ID: 201540005 CLIENT ID: AK2119

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 24-JAN-08 LEVEL: Low %SOLIDS: 93

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	11	mg/kg			MS	0.017	2	ICPMS5	080204-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 09:13	Matrix:	SOIL
Lab Sample ID:	201705002	Date Received:	01/26/2008 14:15	%Moisture:	12
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2219	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4.I	Dilution:	1
Run Date:	02/07/2008 11:52	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/26/2008 23:12	Aliquot:	4.8 g	Final Volume:	5 mL
Data File:	4w345.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.18 U	ug/kg	0.391	1.18
108-88-3	Toluene	U	1.18	ug/kg	0.343	1.18
100-41-4	Ethylbenzene	U	1.18	ug/kg	0.237	1.18
1330-20-7	Xylenes (total)		1.74	ug/kg	0.237	1.18

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 09:13	Matrix:	SOIL
Lab Sample ID:	201705002	Date Received:	01/26/2008 14:15	%Moisture:	12
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2219	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	01/31/2008 20:24	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.32 g	Final Volume:	1 mL
Data File:	s5a3112.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	37.5 U	ug/kg	12.5	37.5
129-00-0	Pyrene	U	37.5 U	ug/kg	11.8	37.5
91-20-3	Naphthalene		142 =	ug/kg	11.2	37.5
91-57-6	2-Methylnaphthalene		164 =	ug/kg	7.49	37.5
91-58-7	2-Chloronaphthalene	U	37.5 U	ug/kg	13.1	37.5
208-96-8	Acenaphthylene	U	37.5 U	ug/kg	11.2	37.5
86-73-7	Fluorene		90.3 =	ug/kg	11.2	37.5
85-01-8	Phenanthrene	J	19.2 J	ug/kg	11.2	37.5
120-12-7	Anthracene	U	37.5 U	ug/kg	7.49	37.5
206-44-0	Fluoranthene	U	37.5	ug/kg	11.2	37.5
56-55-3	Benzo(a)anthracene	U	37.5	ug/kg	11.2	37.5
218-01-9	Chrysene	U	37.5	ug/kg	11.2	37.5
205-99-2	Benzo(b)fluoranthene	U	37.5	ug/kg	11.2	37.5
207-08-9	Benzo(k)fluoranthene	U	37.5	ug/kg	11.2	37.5
50-32-8	Benzo(a)pyrene	U	37.5	ug/kg	11.2	37.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.5	ug/kg	11.2	37.5
53-70-3	Dibenzo(a,h)anthracene	U	37.5	ug/kg	11.2	37.5
191-24-2	Benzo(ghi)perylene	U	37.5	ug/kg	11.2	37.5

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705 METHOD TYPE: SW846

SAMPLE ID: 201705002 CLIENT ID: AK2219

CONTRACT: SAIC08507

MATRIX:S DATE RECEIVED 26-JAN-08 LEVEL: Low %SOLIDS: 88

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	35.2	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 09:13	Matrix:	SOIL
Lab Sample ID:	201705003	Date Received:	01/26/2008 14:15	%Moisture:	12.1
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2213 DUPLICATE	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4.I	Dilution:	1
Run Date:	02/07/2008 12:19	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/26/2008 23:18	Aliquot:	5 g	Final Volume:	5 mL
Data File:	4w346.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.14 U	ug/kg	0.375	1.14
108-88-3	Toluene	U	1.14	ug/kg	0.330	1.14
100-41-4	Ethylbenzene	U	1.14	ug/kg	0.227	1.14
1330-20-7	Xylenes (total)		2.03 =	ug/kg	0.227	1.14

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 09:13	Matrix:	SOIL
Lab Sample ID:	201705003	Date Received:	01/26/2008 14:15	%Moisture:	12.1
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2213 DUPLICATE	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	01/31/2008 20:44	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.54 g	Final Volume:	1 mL
Data File:	s5a3113.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	37.2 U	ug/kg	12.4	37.2
129-00-0	Pyrene	U	37.2 U	ug/kg	11.7	37.2
91-20-3	Naphthalene		48.5 =	ug/kg	11.2	37.2
91-57-6	2-Methylnaphthalene		69.8 =	ug/kg	7.45	37.2
91-58-7	2-Chloronaphthalene	U	37.2 U	ug/kg	13.0	37.2
208-96-8	Acenaphthylene	U	37.2 U	ug/kg	11.2	37.2
86-73-7	Fluorene		40.2 =	ug/kg	11.2	37.2
85-01-8	Phenanthrene	U	37.2 U	ug/kg	11.2	37.2
120-12-7	Anthracene	U	37.2	ug/kg	7.45	37.2
206-44-0	Fluoranthene	U	37.2	ug/kg	11.2	37.2
56-55-3	Benzo(a)anthracene	U	37.2	ug/kg	11.2	37.2
218-01-9	Chrysene	U	37.2	ug/kg	11.2	37.2
205-99-2	Benzo(b)fluoranthene	U	37.2	ug/kg	11.2	37.2
207-08-9	Benzo(k)fluoranthene	U	37.2	ug/kg	11.2	37.2
50-32-8	Benzo(a)pyrene	U	37.2	ug/kg	11.2	37.2
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.2	ug/kg	11.2	37.2
53-70-3	Dibenzo(a,h)anthracene	U	37.2	ug/kg	11.2	37.2
191-24-2	Benzo(ghi)perylene	U	37.2	ug/kg	11.2	37.2

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705 **METHOD TYPE:** SW846

SAMPLE ID: 201705003 **CLIENT ID:** AK2213 DUPLICATE

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 26-JAN-08 **LEVEL:** Low **%SOLIDS:** 88

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	31.6	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 10:40	Matrix:	SOIL
Lab Sample ID:	201705004	Date Received:	01/26/2008 14:15	%Moisture:	7.7
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2319	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4.I	Dilution:	1
Run Date:	02/08/2008 12:42	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/26/2008 23:46	Aliquot:	4.3 g	Final Volume:	5 mL
Data File:	4w509.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.26 U	ug/kg	0.416	1.26
108-88-3	Toluene	U	1.26 U	ug/kg	0.365	1.26
100-41-4	Ethylbenzene		64.1 =	ug/kg	0.252	1.26
1330-20-7	Xylenes (total)		141 =	ug/kg	0.252	1.26

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 10:40	Matrix:	SOIL
Lab Sample ID:	201705004	Date Received:	01/26/2008 14:15	%Moisture:	7.7
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2319	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	01/31/2008 21:05	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.07 g	Final Volume:	1 mL
Data File:	s5a3114.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	36.0 U	ug/kg	12.0	36.0
129-00-0	Pyrene	U	36.0 U	ug/kg	11.3	36.0
91-20-3	Naphthalene		45.7 =	ug/kg	10.8	36.0
91-57-6	2-Methylnaphthalene		76.2 =	ug/kg	7.21	36.0
91-58-7	2-Chloronaphthalene	U	36.0 U	ug/kg	12.6	36.0
208-96-8	Acenaphthylene	U	36.0 U	ug/kg	10.8	36.0
86-73-7	Fluorene	J	33.4 J	ug/kg	10.8	36.0
85-01-8	Phenanthrene	J	18.8 J	ug/kg	10.8	36.0
120-12-7	Anthracene	U	36.0 U	ug/kg	7.21	36.0
206-44-0	Fluoranthene	J	15.2 J	ug/kg	10.8	36.0
56-55-3	Benzo(a)anthracene	U	36.0 U	ug/kg	10.8	36.0
218-01-9	Chrysene	U	36.0	ug/kg	10.8	36.0
205-99-2	Benzo(b)fluoranthene	U	36.0	ug/kg	10.8	36.0
207-08-9	Benzo(k)fluoranthene	U	36.0	ug/kg	10.8	36.0
50-32-8	Benzo(a)pyrene	U	36.0	ug/kg	10.8	36.0
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.0	ug/kg	10.8	36.0
53-70-3	Dibenzo(a,h)anthracene	U	36.0	ug/kg	10.8	36.0
191-24-2	Benzo(ghi)perylene	U	36.0	ug/kg	10.8	36.0

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705 METHOD TYPE: SW846

SAMPLE ID: 201705004 CLIENT ID: AK2319

CONTRACT: SAIC08507

MATRIX:S DATE RECEIVED 26-JAN-08 LEVEL: Low %SOLIDS: 92.3

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	18.8	mg/kg			MS	0.01	2	ICPMS5	080204-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 11:38	Matrix:	SOIL
Lab Sample ID:	201705005	Date Received:	01/26/2008 14:15	%Moisture:	7.8
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2419	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4.I	Dilution:	1
Run Date:	02/07/2008 13:42	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/26/2008 23:30	Aliquot:	5 g	Final Volume:	5 mL
Data File:	4w349.d	Column:	RTX-VOLATILES	Level:	LOW

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CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.08 U	ug/kg	0.358	1.08
108-88-3	Toluene	J	1.05 J	ug/kg	0.314	1.08
100-41-4	Ethylbenzene		96.6 =	ug/kg	0.217	1.08
1330-20-7	Xylenes (total)	D E	401 ~~346~~ =	ug/kg	0.217	1.08

DATA VALIDATION COPY

Semi–Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 11:38	Matrix:	SOIL
Lab Sample ID:	201705005	Date Received:	01/26/2008 14:15	%Moisture:	7.8
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2419	Method:	SW846 8270C	SOP Ref:	GL–OA–E–009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	01/31/2008 21:26	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.26 g	Final Volume:	1 mL
Data File:	s5a3115.d	Column:	J&W DB–5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83–32–9	Acenaphthene	U	35.8 U	ug/kg	12.0	35.8
129–00–0	Pyrene	J	28.2 J	ug/kg	11.2	35.8
91–20–3	Naphthalene	J	24.5 J	ug/kg	10.7	35.8
91–57–6	2–Methylnaphthalene		42.7 =	ug/kg	7.17	35.8
91–58–7	2–Chloronaphthalene	U	35.8 U	ug/kg	12.5	35.8
208–96–8	Acenaphthylene	U	35.8	ug/kg	10.7	35.8
86–73–7	Fluorene	U	35.8	ug/kg	10.7	35.8
85–01–8	Phenanthrene		47.6 =	ug/kg	10.7	35.8
120–12–7	Anthracene	J	7.18 J	ug/kg	7.17	35.8
206–44–0	Fluoranthene		39.1 =	ug/kg	10.7	35.8
56–55–3	Benzo(a)anthracene	J	17.4 J	ug/kg	10.7	35.8
218–01–9	Chrysene	U	35.8 U	ug/kg	10.7	35.8
205–99–2	Benzo(b)fluoranthene	U	35.8	ug/kg	10.7	35.8
207–08–9	Benzo(k)fluoranthene	U	35.8	ug/kg	10.7	35.8
50–32–8	Benzo(a)pyrene	U	35.8	ug/kg	10.7	35.8
193–39–5	Indeno(1,2,3–cd)pyrene	U	35.8	ug/kg	10.7	35.8
53–70–3	Dibenzo(a,h)anthracene	U	35.8	ug/kg	10.7	35.8
191–24–2	Benzo(ghi)perylene	U	35.8	ug/kg	10.7	35.8

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705 METHOD TYPE: SW846

SAMPLE ID: 201705005 CLIENT ID: AK2419

CONTRACT: SAIC08507

MATRIX:S DATE RECEIVED 26-JAN-08 LEVEL: Low %SOLIDS: 92.2

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	25.8	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 13:06	Matrix:	SOIL
Lab Sample ID:	201705006	Date Received:	01/26/2008 14:15	%Moisture:	12.3
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2519	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4.I	Dilution:	1
Run Date:	02/07/2008 12:47	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/26/2008 23:36	Aliquot:	5.5 g	Final Volume:	5 mL
Data File:	4w347.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.04 UL	ug/kg	0.342	1.04
108-88-3	Toluene	U	1.04	ug/kg	0.301	1.04
100-41-4	Ethylbenzene	U	1.04	ug/kg	0.207	1.04
1330-20-7	Xylenes (total)	J	0.662 J	ug/kg	0.207	1.04

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 13:06	Matrix:	SOIL
Lab Sample ID:	201705006	Date Received:	01/26/2008 14:15	%Moisture:	12.3
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2519	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	01/31/2008 21:46	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.94 g	Final Volume:	1 mL
Data File:	s5a3116.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	36.9 U	ug/kg	12.3	36.9
129-00-0	Pyrene	U	36.9	ug/kg	11.6	36.9
91-20-3	Naphthalene	U	36.9	ug/kg	11.1	36.9
91-57-6	2-Methylnaphthalene	U	36.9	ug/kg	7.37	36.9
91-58-7	2-Chloronaphthalene	U	36.9	ug/kg	12.9	36.9
208-96-8	Acenaphthylene	U	36.9	ug/kg	11.1	36.9
86-73-7	Fluorene	U	36.9	ug/kg	11.1	36.9
85-01-8	Phenanthrene	U	36.9	ug/kg	11.1	36.9
120-12-7	Anthracene	U	36.9	ug/kg	7.37	36.9
206-44-0	Fluoranthene	U	36.9	ug/kg	11.1	36.9
56-55-3	Benzo(a)anthracene	U	36.9	ug/kg	11.1	36.9
218-01-9	Chrysene	U	36.9	ug/kg	11.1	36.9
205-99-2	Benzo(b)fluoranthene	U	36.9	ug/kg	11.1	36.9
207-08-9	Benzo(k)fluoranthene	U	36.9	ug/kg	11.1	36.9
50-32-8	Benzo(a)pyrene	U	36.9	ug/kg	11.1	36.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.9	ug/kg	11.1	36.9
53-70-3	Dibenzo(a,h)anthracene	U	36.9	ug/kg	11.1	36.9
191-24-2	Benzo(ghi)perylene	U	36.9	ug/kg	11.1	36.9

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705 METHOD TYPE: SW846

SAMPLE ID: 201705006 CLIENT ID: AK2519

CONTRACT: SAIC08507

MATRIX:S DATE RECEIVED 26-JAN-08 LEVEL: Low %SOLIDS: 88

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	6.5	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 14:25	Matrix:	SOIL
Lab Sample ID:	201705007	Date Received:	01/26/2008 14:15	%Moisture:	7.8
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2619	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724297	Inst:	VOA4.I	Dilution:	1
Run Date:	02/07/2008 13:14	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/26/2008 23:42	Aliquot:	5 g	Final Volume:	5 mL
Data File:	4w348.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	J	0.609 J	ug/kg	0.358	1.08
108-88-3	Toluene	J	0.857	ug/kg	0.315	1.08
100-41-4	Ethylbenzene	J	0.781	ug/kg	0.217	1.08
1330-20-7	Xylenes (total)		3.41	ug/kg	0.217	1.08

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705	Date Collected:	01/25/2008 14:25	Matrix:	SOIL
Lab Sample ID:	201705007	Date Received:	01/26/2008 14:15	%Moisture:	7.8
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2619	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	01/31/2008 22:07	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.53 g	Final Volume:	1 mL
Data File:	s5a3117.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	35.5 u	ug/kg	11.9	35.5
129-00-0	Pyrene	U	35.5	ug/kg	11.2	35.5
91-20-3	Naphthalene	U	35.5	ug/kg	10.7	35.5
91-57-6	2-Methylnaphthalene	U	35.5	ug/kg	7.11	35.5
91-58-7	2-Chloronaphthalene	U	35.5	ug/kg	12.4	35.5
208-96-8	Acenaphthylene	U	35.5	ug/kg	10.7	35.5
86-73-7	Fluorene	U	35.5	ug/kg	10.7	35.5
85-01-8	Phenanthrene	U	35.5	ug/kg	10.7	35.5
120-12-7	Anthracene	U	35.5	ug/kg	7.11	35.5
206-44-0	Fluoranthene	U	35.5	ug/kg	10.7	35.5
56-55-3	Benzo(a)anthracene	U	35.5	ug/kg	10.7	35.5
218-01-9	Chrysene	U	35.5	ug/kg	10.7	35.5
205-99-2	Benzo(b)fluoranthene	U	35.5	ug/kg	10.7	35.5
207-08-9	Benzo(k)fluoranthene	U	35.5	ug/kg	10.7	35.5
50-32-8	Benzo(a)pyrene	U	35.5	ug/kg	10.7	35.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.5	ug/kg	10.7	35.5
53-70-3	Dibenzo(a,h)anthracene	U	35.5	ug/kg	10.7	35.5
191-24-2	Benzo(ghi)perylene	U	35.5	ug/kg	10.7	35.5

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705 METHOD TYPE: SW846

SAMPLE ID: 201705007 CLIENT ID: AK2619

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 26-JAN-08 LEVEL: Low %SOLIDS: 92.2

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	2.5	mg/kg			MS	0.011	2	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 08:28	Matrix:	SOIL
Lab Sample ID:	201709001	Date Received:	01/27/2008 14:30	%Moisture:	7.5
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2719	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.I	Dilution:	1
Run Date:	02/08/2008 00:25	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/27/2008 21:20	Aliquot:	5 g	Final Volume:	5 mL
Data File:	6w414.d	Column:	DB-624	Level:	LOW

USQ

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		1.30 =	ug/kg	0.357	1.08
108-88-3	Toluene		44.5 =	ug/kg	0.313	1.08
100-41-4	Ethylbenzene		72.2 =	ug/kg	0.216	1.08
1330-20-7	Xylenes (total)	D	348 ~~391~~ =	ug/kg	0.216	1.08

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 08:28	Matrix:	SOIL
Lab Sample ID:	201709001	Date Received:	01/27/2008 14:30	%Moisture:	7.5
		Client:	SAIC085	Project:	SAIC08507
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK2719	Inst:	MSD5.I	Dilution:	1
Batch ID:	722516	Analyst:	BJB1	Inj. Vol:	.5 uL
Run Date:	01/31/2008 22:28	Aliquot:	30.52 g	Final Volume:	1 mL
Prep Date:	01/31/2008 12:56	Column:	J&W DB-5MS	Level:	LOW
Data File:	s5a3118.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	35.4 U	ug/kg	11.8	35.4
129-00-0	Pyrene	U	35.4	ug/kg	11.1	35.4
91-20-3	Naphthalene	U	35.4	ug/kg	10.6	35.4
91-57-6	2-Methylnaphthalene	J	7.96 J	ug/kg	7.08	35.4
91-58-7	2-Chloronaphthalene	U	35.4 U	ug/kg	12.4	35.4
208-96-8	Acenaphthylene	U	35.4	ug/kg	10.6	35.4
86-73-7	Fluorene	U	35.4	ug/kg	10.6	35.4
85-01-8	Phenanthrene	U	35.4	ug/kg	10.6	35.4
120-12-7	Anthracene	U	35.4	ug/kg	7.08	35.4
206-44-0	Fluoranthene	U	35.4	ug/kg	10.6	35.4
56-55-3	Benzo(a)anthracene	U	35.4	ug/kg	10.6	35.4
218-01-9	Chrysene	U	35.4	ug/kg	10.6	35.4
205-99-2	Benzo(b)fluoranthene	U	35.4	ug/kg	10.6	35.4
207-08-9	Benzo(k)fluoranthene	U	35.4	ug/kg	10.6	35.4
50-32-8	Benzo(a)pyrene	U	35.4	ug/kg	10.6	35.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.4	ug/kg	10.6	35.4
53-70-3	Dibenzo(a,h)anthracene	U	35.4	ug/kg	10.6	35.4
191-24-2	Benzo(ghi)perylene	U	35.4	ug/kg	10.6	35.4

DATA VALIDATION
COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709 METHOD TYPE: SW846

SAMPLE ID: 201709001 CLIENT ID: AK2719

CONTRACT: SAIC08507

MATRIX:S DATE RECEIVED 27-JAN-08 LEVEL: Low %SOLIDS: 92.5

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	13.3	mg/kg		N	MS	0.01	2	ICPMS6	080201-1

J I01

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 09:40	Matrix:	SOIL
Lab Sample ID:	201709002	Date Received:	01/27/2008 14:30	%Moisture:	5.1
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2819	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.1	Dilution:	1
Run Date:	02/09/2008 01:10	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/27/2008 21:28	Aliquot:	4.6 g	Final Volume:	5 mL
Data File:	6w516.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.15 U	ug/kg	0.378	1.15
108-88-3	Toluene		6.95 =	ug/kg	0.332	1.15
100-41-4	Ethylbenzene		9.61 =	ug/kg	0.229	1.15
1330-20-7	Xylenes (total)		68.6 =	ug/kg	0.229	1.15

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 09:40	Matrix:	SOIL
Lab Sample ID:	201709002	Date Received:	01/27/2008 14:30	%Moisture:	5.1
		Client:	SAIC085	Project:	SAIC08507
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK2819	Inst:	MSD5.I	Dilution:	1
Batch ID:	722516	Analyst:	BJB1	Inj. Vol:	.5 uL
Run Date:	01/31/2008 22:49	Aliquot:	30.31 g	Final Volume:	1 mL
Prep Date:	01/31/2008 12:56	Column:	J&W DB-5MS	Level:	LOW
Data File:	s5a3119.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	34.8 U	ug/kg	11.6	34.8
129-00-0	Pyrene	U	34.8 U	ug/kg	10.9	34.8
91-20-3	Naphthalene		36.6 =	ug/kg	10.4	34.8
91-57-6	2-Methylnaphthalene		52.3 =	ug/kg	6.96	34.8
91-58-7	2-Chloronaphthalene	U	34.8 U	ug/kg	12.2	34.8
208-96-8	Acenaphthylene	U	34.8 U	ug/kg	10.4	34.8
86-73-7	Fluorene	J	30.3 J	ug/kg	10.4	34.8
85-01-8	Phenanthrene	U	34.8 U	ug/kg	10.4	34.8
120-12-7	Anthracene	U	34.8	ug/kg	6.96	34.8
206-44-0	Fluoranthene	U	34.8	ug/kg	10.4	34.8
56-55-3	Benzo(a)anthracene	U	34.8	ug/kg	10.4	34.8
218-01-9	Chrysene	U	34.8	ug/kg	10.4	34.8
205-99-2	Benzo(b)fluoranthene	U	34.8	ug/kg	10.4	34.8
207-08-9	Benzo(k)fluoranthene	U	34.8	ug/kg	10.4	34.8
50-32-8	Benzo(a)pyrene	U	34.8	ug/kg	10.4	34.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	34.8	ug/kg	10.4	34.8
53-70-3	Dibenzo(a,h)anthracene	U	34.8	ug/kg	10.4	34.8
191-24-2	Benzo(ghi)perylene	U	34.8	ug/kg	10.4	34.8

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709 **METHOD TYPE:** SW846

SAMPLE ID: 201709002 **CLIENT ID:** AK2819

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 27-JAN-08 **LEVEL:** Low **%SOLIDS:** 94.9

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	7.7	mg/kg		N	MS	0.01	2	ICPMS6	080201-1

J I01

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 10:30	Matrix:	SOIL
Lab Sample ID:	201709003	Date Received:	01/27/2008 14:30	%Moisture:	7
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2919	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.I	Dilution:	1
Run Date:	02/08/2008 01:23	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/27/2008 21:32	Aliquot:	4.5 g	Final Volume:	5 mL
Data File:	6w416.d	Column:	DB-624	Level:	LOW

USE

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.19 U	ug/kg	0.394	1.19
108-88-3	Toluene	DJ ~~E~~	41.3 ~~1000~~ J	ug/kg	0.346	1.19
100-41-4	Ethylbenzene	DJ ~~E~~	25.6 ~~1010~~ J	ug/kg	0.239	1.19
1330-20-7	Xylenes (total)	D ~~E~~	194 ~~3280~~ =	ug/kg	0.239	1.19

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 10:30	Matrix:	SOIL
Lab Sample ID:	201709003	Date Received:	01/27/2008 14:30	%Moisture:	7
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2919	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	01/31/2008 23:09	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.29 g	Final Volume:	1 mL
Data File:	s5a3120.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	35.5 U	ug/kg	11.9	35.5
129-00-0	Pyrene	J	14.7 J	ug/kg	11.1	35.5
91-20-3	Naphthalene		67.5 =	ug/kg	10.6	35.5
91-57-6	2-Methylnaphthalene		83.5 =	ug/kg	7.10	35.5
91-58-7	2-Chloronaphthalene	U	35.5 U	ug/kg	12.4	35.5
208-96-8	Acenaphthylene	U	35.5 U	ug/kg	10.6	35.5
86-73-7	Fluorene	J	31.8 J	ug/kg	10.6	35.5
85-01-8	Phenanthrene	J	27.5 J	ug/kg	10.6	35.5
120-12-7	Anthracene	U	35.5 U	ug/kg	7.10	35.5
206-44-0	Fluoranthene	J	24.5 J	ug/kg	10.6	35.5
56-55-3	Benzo(a)anthracene	J	13.4 J	ug/kg	10.6	35.5
218-01-9	Chrysene	U	35.5 U	ug/kg	10.6	35.5
205-99-2	Benzo(b)fluoranthene	U	35.5	ug/kg	10.6	35.5
207-08-9	Benzo(k)fluoranthene	U	35.5	ug/kg	10.6	35.5
50-32-8	Benzo(a)pyrene	U	35.5	ug/kg	10.6	35.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.5	ug/kg	10.6	35.5
53-70-3	Dibenzo(a,h)anthracene	U	35.5	ug/kg	10.6	35.5
191-24-2	Benzo(ghi)perylene	U	35.5	ug/kg	10.6	35.5

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709 **METHOD TYPE:** SW846

SAMPLE ID: 201709003 **CLIENT ID:** AK2919

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 27-JAN-08 **LEVEL:** Low **%SOLIDS:** 93

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	12.2	mg/kg		N	MS	0.011	2	ICPMS6	080201-1

J I01

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 11:40	Matrix:	SOIL
Lab Sample ID:	201709004	Date Received:	01/27/2008 14:30	%Moisture:	12.7
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3019	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.I	Dilution:	1
Run Date:	02/09/2008 02:37	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/27/2008 21:14	Aliquot:	4.6 g	Final Volume:	5 mL
Data File:	6w519.d	Column:	DB-624	Level:	LOW

USP

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.24 UJ	ug/kg	0.411	1.24
108-88-3	Toluene		7.59 J Gol	ug/kg	0.361	1.24
100-41-4	Ethylbenzene	D	E 1690 1600 =	ug/kg	0.249	1.24
1330-20-7	Xylenes (total)	D	E 5570 ~~4970~~ ~~Gol~~ =	ug/kg	0.249	1.24

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 11:40	Matrix:	SOIL
Lab Sample ID:	201709004	Date Received:	01/27/2008 14:30	%Moisture:	12.7
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3019	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	01/31/2008 23:30	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.03 g	Final Volume:	1 mL
Data File:	s5a3121.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	J	28.9 J	ug/kg	12.7	38.1
129-00-0	Pyrene		95.1 =	ug/kg	12.0	38.1
91-20-3	Naphthalene		100	ug/kg	11.4	38.1
91-57-6	2-Methylnaphthalene		120	ug/kg	7.63	38.1
91-58-7	2-Chloronaphthalene	U	38.1 U	ug/kg	13.3	38.1
208-96-8	Acenaphthylene	U	38.1 U	ug/kg	11.4	38.1
86-73-7	Fluorene	J	34.2 J	ug/kg	11.4	38.1
85-01-8	Phenanthrene		175 =	ug/kg	11.4	38.1
120-12-7	Anthracene	J	37.4 J	ug/kg	7.63	38.1
206-44-0	Fluoranthene		172 =	ug/kg	11.4	38.1
56-55-3	Benzo(a)anthracene		53.9 =	ug/kg	11.4	38.1
218-01-9	Chrysene	J	28.2 J	ug/kg	11.4	38.1
205-99-2	Benzo(b)fluoranthene		38.8 =	ug/kg	11.4	38.1
207-08-9	Benzo(k)fluoranthene	U	38.1 U	ug/kg	11.4	38.1
50-32-8	Benzo(a)pyrene	U	38.1	ug/kg	11.4	38.1
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.1	ug/kg	11.4	38.1
53-70-3	Dibenzo(a,h)anthracene	U	38.1	ug/kg	11.4	38.1
191-24-2	Benzo(ghi)perylene	U	38.1	ug/kg	11.4	38.1

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709 **METHOD TYPE:** SW846

SAMPLE ID: 201709004 **CLIENT ID:** AK3019

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 27-JAN-08 **LEVEL:** Low **%SOLIDS:** 87

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	17.1	mg/kg		N	MS	0.011	2	ICPMS6	080201-1

J I01

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 13:10	Matrix:	SOIL
Lab Sample ID:	201709005	Date Received:	01/27/2008 14:30	%Moisture:	14.1
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3119	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.I	Dilution:	1
Run Date:	02/08/2008 23:43	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/27/2008 20:52	Aliquot:	4.7 g	Final Volume:	5 mL
Data File:	6w513.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.24 U	ug/kg	0.409	1.24
108-88-3	Toluene	U	1.24 U	ug/kg	0.359	1.24
100-41-4	Ethylbenzene	U	1.24 U	ug/kg	0.248	1.24
1330-20-7	Xylenes (total)	J	0.931 J G01	ug/kg	0.248	1.24

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 13:10	Matrix:	SOIL
Lab Sample ID:	201709005	Date Received:	01/27/2008 14:30	%Moisture:	14.1
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3119	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	01/31/2008 23:51	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.38 g	Final Volume:	1 mL
Data File:	s5a3122.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	38.3 U	ug/kg	12.8	38.3
129-00-0	Pyrene	U	38.3	ug/kg	12.0	38.3
91-20-3	Naphthalene	U	38.3	ug/kg	11.5	38.3
91-57-6	2-Methylnaphthalene	U	38.3	ug/kg	7.67	38.3
91-58-7	2-Chloronaphthalene	U	38.3	ug/kg	13.4	38.3
208-96-8	Acenaphthylene	U	38.3	ug/kg	11.5	38.3
86-73-7	Fluorene	U	38.3	ug/kg	11.5	38.3
85-01-8	Phenanthrene	U	38.3	ug/kg	11.5	38.3
120-12-7	Anthracene	U	38.3	ug/kg	7.67	38.3
206-44-0	Fluoranthene	U	38.3	ug/kg	11.5	38.3
56-55-3	Benzo(a)anthracene	U	38.3	ug/kg	11.5	38.3
218-01-9	Chrysene	U	38.3	ug/kg	11.5	38.3
205-99-2	Benzo(b)fluoranthene	U	38.3	ug/kg	11.5	38.3
207-08-9	Benzo(k)fluoranthene	U	38.3	ug/kg	11.5	38.3
50-32-8	Benzo(a)pyrene	U	38.3	ug/kg	11.5	38.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.3	ug/kg	11.5	38.3
53-70-3	Dibenzo(a,h)anthracene	U	38.3	ug/kg	11.5	38.3
191-24-2	Benzo(ghi)perylene	U	38.3	ug/kg	11.5	38.3

DATA VALIDATION
COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709 METHOD TYPE: SW846

SAMPLE ID: 201709005 CLIENT ID: AK3119

CONTRACT: SAJC08507

MATRIX:S DATE RECEIVED 27-JAN-08 LEVEL: Low %SOLIDS: 86

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	2.2	mg/kg		N	MS	0.011	2	ICPMS6	080201-1

J I01

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 08:24	Matrix:	SOIL
Lab Sample ID:	201744001	Date Received:	01/28/2008 14:50	%Moisture:	11.2
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3219	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.1	Dilution:	1
Run Date:	02/08/2008 05:14	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/29/2008 06:45	Aliquot:	6 g	Final Volume:	5 mL
Data File:	6w424.d	Column:	DB-624	Level:	LOW

USR

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	0.939 U	ug/kg	0.310	0.939
108-88-3	Toluene	D	~~E~~ 1110 ~~497~~ =	ug/kg	0.272	0.939
100-41-4	Ethylbenzene	D	~~E~~ 2390 ~~644~~ =	ug/kg	0.188	0.939
1330-20-7	Xylenes (total)	D	~~E~~ 8810 ~~1600~~ =	ug/kg	0.188	0.939

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 08:24	Matrix:	SOIL
Lab Sample ID:	201744001	Date Received:	01/28/2008 14:50	%Moisture:	11.2
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3219	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722159	Inst:	MSD6.I	Dilution:	1
Run Date:	01/30/2008 12:46	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/29/2008 19:10	Aliquot:	30.03 g	Final Volume:	1 mL
Data File:	s6a3011.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	37.5 U	ug/kg	12.5	37.5
129-00-0	Pyrene	J	28.8 J	ug/kg	11.8	37.5
91-20-3	Naphthalene	U	37.5 U	ug/kg	11.3	37.5
91-57-6	2-Methylnaphthalene	J	9.24 J	ug/kg	7.50	37.5
91-58-7	2-Chloronaphthalene	U	37.5 U	ug/kg	13.1	37.5
208-96-8	Acenaphthylene	U	37.5	ug/kg	11.3	37.5
86-73-7	Fluorene	U	37.5	ug/kg	11.3	37.5
85-01-8	Phenanthrene	J	34.1 J	ug/kg	11.3	37.5
120-12-7	Anthracene	U	37.5 U	ug/kg	7.50	37.5
206-44-0	Fluoranthene		48.3 =	ug/kg	11.3	37.5
56-55-3	Benzo(a)anthracene	U	37.5 U	ug/kg	11.3	37.5
218-01-9	Chrysene	J	16.2 J	ug/kg	11.3	37.5
205-99-2	Benzo(b)fluoranthene	U	37.5 U	ug/kg	11.3	37.5
207-08-9	Benzo(k)fluoranthene	U	37.5	ug/kg	11.3	37.5
50-32-8	Benzo(a)pyrene	U	37.5	ug/kg	11.3	37.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.5	ug/kg	11.3	37.5
53-70-3	Dibenzo(a,h)anthracene	U	37.5	ug/kg	11.3	37.5
191-24-2	Benzo(ghi)perylene	U	37.5	ug/kg	11.3	37.5

DATA VALIDATION
COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744 METHOD TYPE: SW846

SAMPLE ID: 201744001 CLIENT ID: AK3219

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 28-JAN-08 LEVEL: Low %SOLIDS: 89

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	14.3	mg/kg			MS	0.011	2	ICPMS6	080201-1
		J	I01							

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 09:17	Matrix:	SOIL
Lab Sample ID:	201744002	Date Received:	01/28/2008 14:50	%Moisture:	6.6
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3319	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.I	Dilution:	1
Run Date:	02/08/2008 03:19	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/29/2008 06:55	Aliquot:	4.9 g	Final Volume:	5 mL
Data File:	6w420.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result		Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.09	U	ug/kg	0.360	1.09
108-88-3	Toluene		38.6	=	ug/kg	0.317	1.09
100-41-4	Ethylbenzene		43.8	=	ug/kg	0.218	1.09
1330-20-7	Xylenes (total)		141	=	ug/kg	0.218	1.09

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 09:17	Matrix:	SOIL
Lab Sample ID:	201744002	Date Received:	01/28/2008 14:50	%Moisture:	6.6
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3319	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722159	Inst:	MSD6.I	Dilution:	1
Run Date:	01/30/2008 13:51	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/29/2008 19:10	Aliquot:	30.01 g	Final Volume:	1 mL
Data File:	s6a3014.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	35.7 U	ug/kg	11.9	35.7
129-00-0	Pyrene	J	18.1 J	ug/kg	11.2	35.7
91-20-3	Naphthalene	U	35.7 U	ug/kg	10.7	35.7
91-57-6	2-Methylnaphthalene	J	26.1 J	ug/kg	7.13	35.7
91-58-7	2-Chloronaphthalene	U	35.7 U	ug/kg	12.5	35.7
208-96-8	Acenaphthylene	U	35.7	ug/kg	10.7	35.7
86-73-7	Fluorene	U	35.7	ug/kg	10.7	35.7
85-01-8	Phenanthrene	J	27.3 J	ug/kg	10.7	35.7
120-12-7	Anthracene	U	35.7 U	ug/kg	7.13	35.7
206-44-0	Fluoranthene	J	28.6 J	ug/kg	10.7	35.7
56-55-3	Benzo(a)anthracene	U	35.7 U	ug/kg	10.7	35.7
218-01-9	Chrysene	U	35.7	ug/kg	10.7	35.7
205-99-2	Benzo(b)fluoranthene	U	35.7	ug/kg	10.7	35.7
207-08-9	Benzo(k)fluoranthene	U	35.7	ug/kg	10.7	35.7
50-32-8	Benzo(a)pyrene	U	35.7	ug/kg	10.7	35.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.7	ug/kg	10.7	35.7
53-70-3	Dibenzo(a,h)anthracene	U	35.7	ug/kg	10.7	35.7
191-24-2	Benzo(ghi)perylene	U	35.7	ug/kg	10.7	35.7

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744 **METHOD TYPE:** SW846

SAMPLE ID: 201744002 **CLIENT ID:** AK3319

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 28-JAN-08 **LEVEL:** Low **%SOLIDS:** 93.4

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	26.6	mg/kg			MS	0.021	4	ICPMS6	080204-2
		J	I01							

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 10:32	Matrix:	SOIL
Lab Sample ID:	201744003	Date Received:	01/28/2008 14:50	%Moisture:	12
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3419	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.I	Dilution:	50
Run Date:	02/07/2008 04:20	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/29/2008 07:00	Aliquot:	5.1 g	Final Volume:	10 mL
Data File:	6w324.d	Column:	DB-624	Level:	MED

U52

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	111 U	ug/kg	36.8	111
108-88-3	Toluene	D	22120018000 =	ug/kg	32.3	111
100-41-4	Ethylbenzene		4240 =	ug/kg	22.3	111
1330-20-7	Xylenes (total)		19600 =	ug/kg	22.3	111

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 10:32	Matrix:	SOIL
Lab Sample ID:	201744003	Date Received:	01/28/2008 14:50	%Moisture:	12
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3419	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722159	Inst:	MSD6.I	Dilution:	1
Run Date:	01/30/2008 14:13	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/29/2008 19:10	Aliquot:	30.04 g	Final Volume:	1 mL
Data File:	s6a3015.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	37.8 U	ug/kg	12.6	37.8
129-00-0	Pyrene	U	37.8	ug/kg	11.9	37.8
91-20-3	Naphthalene	U	37.8	ug/kg	11.4	37.8
91-57-6	2-Methylnaphthalene		59.6	ug/kg	7.57	37.8
91-58-7	2-Chloronaphthalene	U	37.8 U	ug/kg	13.2	37.8
208-96-8	Acenaphthylene	U	37.8 U	ug/kg	11.4	37.8
86-73-7	Fluorene	J	29.3 J	ug/kg	11.4	37.8
85-01-8	Phenanthrene	J	24.0 J	ug/kg	11.4	37.8
120-12-7	Anthracene	U	37.8 U	ug/kg	7.57	37.8
206-44-0	Fluoranthene	J	18.8 J	ug/kg	11.4	37.8
56-55-3	Benzo(a)anthracene	U	37.8 U	ug/kg	11.4	37.8
218-01-9	Chrysene	U	37.8	ug/kg	11.4	37.8
205-99-2	Benzo(b)fluoranthene	U	37.8	ug/kg	11.4	37.8
207-08-9	Benzo(k)fluoranthene	U	37.8	ug/kg	11.4	37.8
50-32-8	Benzo(a)pyrene	U	37.8	ug/kg	11.4	37.8
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.8	ug/kg	11.4	37.8
53-70-3	Dibenzo(a,h)anthracene	U	37.8	ug/kg	11.4	37.8
191-24-2	Benzo(ghi)perylene	U	37.8	ug/kg	11.4	37.8

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744 **METHOD TYPE:** SW846

SAMPLE ID: 201744003 **CLIENT ID:** AK3419

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 28-JAN-08 **LEVEL:** Low **%SOLIDS:** 88

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	32.7	mg/kg			MS	0.023	4	ICPMS6	080204-2
		J	I01							

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 12:56	Matrix:	SOIL
Lab Sample ID:	201744004	Date Received:	01/28/2008 14:50	%Moisture:	11.4
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3519	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.1	Dilution:	50
Run Date:	02/08/2008 22:45	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/29/2008 07:03	Aliquot:	4.7 g	Final Volume:	10 mL
Data File:	6w511.d	Column:	DB-624	Level:	MED

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	120 U	ug/kg	39.6	120
108-88-3	Toluene		1380 =	ug/kg	34.8	120
100-41-4	Ethylbenzene		2460 =	ug/kg	24.0	120
1330-20-7	Xylenes (total)		5350 =	ug/kg	24.0	120

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 12:56	Matrix:	SOIL
Lab Sample ID:	201744004	Date Received:	01/28/2008 14:50	%Moisture:	11.4
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3519	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722159	Inst:	MSD6.I	Dilution:	1
Run Date:	01/30/2008 14:34	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/29/2008 19:10	Aliquot:	30.02 g	Final Volume:	1 mL
Data File:	s6a3016.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	37.6 U	ug/kg	12.6	37.6
129-00-0	Pyrene	J	21.7 J	ug/kg	11.8	37.6
91-20-3	Naphthalene	U	37.6 U	ug/kg	11.3	37.6
91-57-6	2-Methylnaphthalene		158 =	ug/kg	7.52	37.6
91-58-7	2-Chloronaphthalene	U	37.6 U	ug/kg	13.2	37.6
208-96-8	Acenaphthylene	U	37.6 U	ug/kg	11.3	37.6
86-73-7	Fluorene		115 =	ug/kg	11.3	37.6
85-01-8	Phenanthrene		50.8 =	ug/kg	11.3	37.6
120-12-7	Anthracene	J	15.3 J	ug/kg	7.52	37.6
206-44-0	Fluoranthene	J	35.4 J	ug/kg	11.3	37.6
56-55-3	Benzo(a)anthracene	U	37.6 U	ug/kg	11.3	37.6
218-01-9	Chrysene	J	12.2 J	ug/kg	11.3	37.6
205-99-2	Benzo(b)fluoranthene	U	37.6 U	ug/kg	11.3	37.6
207-08-9	Benzo(k)fluoranthene	U	37.6	ug/kg	11.3	37.6
50-32-8	Benzo(a)pyrene	U	37.6	ug/kg	11.3	37.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.6	ug/kg	11.3	37.6
53-70-3	Dibenzo(a,h)anthracene	U	37.6	ug/kg	11.3	37.6
191-24-2	Benzo(ghi)perylene	U	37.6	ug/kg	11.3	37.6

DATA VALIDATION COPY

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744 **METHOD TYPE:** SW846

SAMPLE ID: 201744004 **CLIENT ID:** AK3519

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 28-JAN-08 **LEVEL:** Low **%SOLIDS:** 89

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	104	mg/kg			MS	0.054	10	ICPMS6	080204-2
		J	I01							

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 14:58	Matrix:	SOIL
Lab Sample ID:	201709008	Date Received:	01/27/2008 14:30	%Moisture:	19.3
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3619	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.I	Dilution:	1
Run Date:	02/08/2008 04:16	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/27/2008 20:56	Aliquot:	5.8 g	Final Volume:	5 mL
Data File:	6w422.d	Column:	DB-624	Level:	LOW

USP

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.07 U	ug/kg	0.353	1.07
108-88-3	Toluene		9.56 J G01	ug/kg	0.310	1.07
100-41-4	Ethylbenzene	D E 608	586 =	ug/kg	0.214	1.07
1330-20-7	Xylenes (total)	D E 2600	1770 =	ug/kg	0.214	1.07

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 14:58	Matrix:	SOIL
Lab Sample ID:	201709008	Date Received:	01/27/2008 14:30	%Moisture:	19.3
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3619	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	02/01/2008 00:53	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.73 g	Final Volume:	1 mL
Data File:	s5a3125.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene		46.0	ug/kg	13.5	40.3
129-00-0	Pyrene		123	ug/kg	12.7	40.3
91-20-3	Naphthalene		71.7	ug/kg	12.1	40.3
91-57-6	2-Methylnaphthalene		101	ug/kg	8.07	40.3
91-58-7	2-Chloronaphthalene	U	40.3	ug/kg	14.1	40.3
208-96-8	Acenaphthylene	U	40.3	ug/kg	12.1	40.3
86-73-7	Fluorene		52.5	ug/kg	12.1	40.3
85-01-8	Phenanthrene		332	ug/kg	12.1	40.3
120-12-7	Anthracene		70.9	ug/kg	8.07	40.3
206-44-0	Fluoranthene		204	ug/kg	12.1	40.3
56-55-3	Benzo(a)anthracene		58.4	ug/kg	12.1	40.3
218-01-9	Chrysene	J	30.9	ug/kg	12.1	40.3
205-99-2	Benzo(b)fluoranthene	J	31.1	ug/kg	12.1	40.3
207-08-9	Benzo(k)fluoranthene	J	12.5	ug/kg	12.1	40.3
50-32-8	Benzo(a)pyrene	U	40.3	ug/kg	12.1	40.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	40.3	ug/kg	12.1	40.3
53-70-3	Dibenzo(a,h)anthracene	U	40.3	ug/kg	12.1	40.3
191-24-2	Benzo(ghi)perylene	U	40.3	ug/kg	12.1	40.3

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709 METHOD TYPE: SW846

SAMPLE ID: 201709008 CLIENT ID: AK3619

CONTRACT: SAIC08507

MATRIX:S DATE RECEIVED 27-JAN-08 LEVEL: Low %SOLIDS: 81

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	12.4	mg/kg		N	MS	0.012	2	ICPMS6	080201-1

J I01

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 13:57	Matrix:	SOIL
Lab Sample ID:	201709006	Date Received:	01/27/2008 14:30	%Moisture:	16.9
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3719	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.I	Dilution:	1
Run Date:	02/09/2008 00:12	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/27/2008 21:10	Aliquot:	5.8 g	Final Volume:	5 mL
Data File:	6w514.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.04 U	ug/kg	0.342	1.04
108-88-3	Toluene	U	1.04 U	ug/kg	0.301	1.04
100-41-4	Ethylbenzene	U	1.04 U	ug/kg	0.207	1.04
1330-20-7	Xylenes (total)	J	0.511 J	ug/kg	0.207	1.04

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 13:57	Matrix:	SOIL
Lab Sample ID:	201709006	Date Received:	01/27/2008 14:30	%Moisture:	16.9
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3719	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	02/01/2008 00:12	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.37 g	Final Volume:	1 mL
Data File:	s5a3123.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	39.6 U	ug/kg	13.2	39.6
129-00-0	Pyrene	U	39.6	ug/kg	12.4	39.6
91-20-3	Naphthalene	U	39.6	ug/kg	11.9	39.6
91-57-6	2-Methylnaphthalene	U	39.6	ug/kg	7.92	39.6
91-58-7	2-Chloronaphthalene	U	39.6	ug/kg	13.9	39.6
208-96-8	Acenaphthylene	U	39.6	ug/kg	11.9	39.6
86-73-7	Fluorene	U	39.6	ug/kg	11.9	39.6
85-01-8	Phenanthrene	U	39.6	ug/kg	11.9	39.6
120-12-7	Anthracene	U	39.6	ug/kg	7.92	39.6
206-44-0	Fluoranthene	U	39.6	ug/kg	11.9	39.6
56-55-3	Benzo(a)anthracene	U	39.6	ug/kg	11.9	39.6
218-01-9	Chrysene	U	39.6	ug/kg	11.9	39.6
205-99-2	Benzo(b)fluoranthene	U	39.6	ug/kg	11.9	39.6
207-08-9	Benzo(k)fluoranthene	U	39.6	ug/kg	11.9	39.6
50-32-8	Benzo(a)pyrene	U	39.6	ug/kg	11.9	39.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	39.6	ug/kg	11.9	39.6
53-70-3	Dibenzo(a,h)anthracene	U	39.6	ug/kg	11.9	39.6
191-24-2	Benzo(ghi)perylene	U	39.6	ug/kg	11.9	39.6

DATA VALIDATION
COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709 **METHOD TYPE:** SW846

SAMPLE ID: 201709006 **CLIENT ID:** AK3719

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 27-JAN-08 **LEVEL:** Low **%SOLIDS:** 83

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	9.6	mg/kg		N	MS	0.012	2	ICPMS6	080201-1

J I01

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 13:57	Matrix:	SOIL
Lab Sample ID:	201709007	Date Received:	01/27/2008 14:30	%Moisture:	16.4
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3713 DUPLICATE	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.I	Dilution:	1
Run Date:	02/09/2008 00:41	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/27/2008 21:04	Aliquot:	5.8 g	Final Volume:	5 mL
Data File:	6w515.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.03 U	ug/kg	0.340	1.03
108-88-3	Toluene	U	1.03 U	ug/kg	0.299	1.03
100-41-4	Ethylbenzene	U	1.03 U	ug/kg	0.206	1.03
1330-20-7	Xylenes (total)	J	0.326 J	ug/kg	0.206	1.03

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709	Date Collected:	01/26/2008 13:57	Matrix:	SOIL
Lab Sample ID:	201709007	Date Received:	01/27/2008 14:30	%Moisture:	16.4
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3713 DUPLICATE	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722516	Inst:	MSD5.I	Dilution:	1
Run Date:	02/01/2008 00:32	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 12:56	Aliquot:	30.01 g	Final Volume:	1 mL
Data File:	s5a3124.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	39.9 U	ug/kg	13.3	39.9
129-00-0	Pyrene	U	39.9	ug/kg	12.5	39.9
91-20-3	Naphthalene	U	39.9	ug/kg	12.0	39.9
91-57-6	2-Methylnaphthalene	U	39.9	ug/kg	7.97	39.9
91-58-7	2-Chloronaphthalene	U	39.9	ug/kg	14.0	39.9
208-96-8	Acenaphthylene	U	39.9	ug/kg	12.0	39.9
86-73-7	Fluorene	U	39.9	ug/kg	12.0	39.9
85-01-8	Phenanthrene	U	39.9	ug/kg	12.0	39.9
120-12-7	Anthracene	U	39.9	ug/kg	7.97	39.9
206-44-0	Fluoranthene	U	39.9	ug/kg	12.0	39.9
56-55-3	Benzo(a)anthracene	U	39.9	ug/kg	12.0	39.9
218-01-9	Chrysene	U	39.9	ug/kg	12.0	39.9
205-99-2	Benzo(b)fluoranthene	U	39.9	ug/kg	12.0	39.9
207-08-9	Benzo(k)fluoranthene	U	39.9	ug/kg	12.0	39.9
50-32-8	Benzo(a)pyrene	U	39.9	ug/kg	12.0	39.9
193-39-5	Indeno(1,2,3-cd)pyrene	U	39.9	ug/kg	12.0	39.9
53-70-3	Dibenzo(a,h)anthracene	U	39.9	ug/kg	12.0	39.9
191-24-2	Benzo(ghi)perylene	U	39.9	ug/kg	12.0	39.9

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709 **METHOD TYPE:** SW846

SAMPLE ID: 201709007 **CLIENT ID:** AK3713 DUPLICATE

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 27-JAN-08 **LEVEL:** Low **%SOLIDS:** 84

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	9.4 J	mg/kg		N	MS	0.012	2	ICPMS6	080201-1

I01

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201086	Date Collected:	01/16/2008 12:37	Matrix:	SOIL
Lab Sample ID:	201086004	Date Received:	01/17/2008 09:30	% Moisture:	14.1
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK3819	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	721963	Inst:	VOA4.I	Dilution:	1
Run Date:	01/29/2008 17:45	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/15/2008 12:17	Aliquot:	5 g	Final Volume:	5 mL
Data File:	4v214.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.16 U	ug/kg	0.384	1.16
108-88-3	Toluene		2.08 =	ug/kg	0.337	1.16
100-41-4	Ethylbenzene		13.3 =	ug/kg	0.233	1.16
1330-20-7	Xylenes (total)		37.1 =	ug/kg	0.233	1.16

"Data Validation Copy"

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201086	Date Collected:	01/16/2008 12:37	Matrix:	SOIL
Lab Sample ID:	201086004	Date Received:	01/17/2008 09:30	% Moisture:	14.1
		Client:	SA1C072	Project:	SA1C007202
Client ID:	AK3819	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	719185	Inst:	MSD2.I	Dilution:	1
Run Date:	01/19/2008 03:04	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/18/2008 15:58	Aliquot:	30.93 g	Final Volume:	1 mL
Data File:	s2a1831.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	37.6 U	ug/kg	12.6	37.6
129-00-0	Pyrene	U	37.6	ug/kg	11.8	37.6
91-20-3	Naphthalene	U	37.6	ug/kg	11.3	37.6
91-57-6	2-Methylnaphthalene	U	37.6	ug/kg	7.52	37.6
91-58-7	2-Chloronaphthalene	U	37.6	ug/kg	13.2	37.6
208-96-8	Acenaphthylene	U	37.6	ug/kg	11.3	37.6
86-73-7	Fluorene	U	37.6	ug/kg	11.3	37.6
85-01-8	Phenanthrene	U	37.6	ug/kg	11.3	37.6
120-12-7	Anthracene	U	37.6	ug/kg	7.52	37.6
206-44-0	Fluoranthene	U	37.6	ug/kg	11.3	37.6
56-55-3	Benzo(a)anthracene	U	37.6	ug/kg	11.3	37.6
218-01-9	Chrysene	U	37.6	ug/kg	11.3	37.6
205-99-2	Benzo(b)fluoranthene	U	37.6	ug/kg	11.3	37.6
207-08-9	Benzo(k)fluoranthene	U	37.6	ug/kg	11.3	37.6
50-32-8	Benzo(a)pyrene	U	37.6	ug/kg	11.3	37.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.6	ug/kg	11.3	37.6
53-70-3	Dibenzo(a,h)anthracene	U	37.6	ug/kg	11.3	37.6
191-24-2	Benzo(ghi)perylene	U	37.6	ug/kg	11.3	37.6

"Data Validation Copy"

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201086 METHOD TYPE: SW846

SAMPLE ID: 201086004 CLIENT ID: AK3819

CONTRACT: SAIC007202

MATRIX:S DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS: 86

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	2190	ug/kg			P	464	1	OPTIMA3	012408-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201086	Date Collected:	01/16/2008 13:27	Matrix:	SOIL
Lab Sample ID:	201086005	Date Received:	01/17/2008 09:30	% Moisture:	15.9
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK3919	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	721963	Inst:	VOA4.I	Dilution:	250
Run Date:	01/28/2008 21:34	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	01/15/2008 12:21	Aliquot:	6 g	Final Volume:	10 mL
Data File:	4v125.d	Column:	RTX-VOLATILES	Level:	LOW

CAS No.	Parmname	Qualifier	Result		Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	496	U	ug/kg	164	496
108-88-3	Toluene		22500	=	ug/kg	144	496
100-41-4	Ethylbenzene		11900	=	ug/kg	99.1	496
1330-20-7	Xylenes (total)		55600	=	ug/kg	99.1	496

"Data Validation Copy"

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201086	Date Collected:	01/16/2008 13:27	Matrix:	SOIL
Lab Sample ID:	201086005	Date Received:	01/17/2008 09:30	% Moisture:	15.9
		Client:	SA1C072	Project:	SA1C007202
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK3919	Inst:	MSD2.I	Dilution:	1
Batch ID:	719185	Analyst:	AGS1	Inj. Vol:	.5 uL
Run Date:	01/19/2008 03:26	Aliquot:	30.02 g	Final Volume:	1 mL
Prep Date:	01/18/2008 15:58	Column:	J&W DB-5MS	Level:	LOW
Data File:	s2a1832.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	39.6 U	ug/kg	13.2	39.6
129-00-0	Pyrene	J	18.5 J	ug/kg	12.6	39.6
91-20-3	Naphthalene	U	39.6 U	ug/kg	11.9	39.6
91-57-6	2-Methylnaphthalene	J	19.2 J	ug/kg	7.92	39.6
91-58-7	2-Chloronaphthalene	U	39.6 U	ug/kg	13.9	39.6
208-96-8	Acenaphthylene	U	39.6	ug/kg	11.9	39.6
86-73-7	Fluorene	U	39.6	ug/kg	11.9	39.6
85-01-8	Phenanthrene	J	22.5 J	ug/kg	11.9	39.6
120-12-7	Anthracene	U	39.6 U	ug/kg	7.92	39.6
206-44-0	Fluoranthene	U	39.6	ug/kg	11.9	39.6
56-55-3	Benzo(a)anthracene	U	39.6	ug/kg	11.9	39.6
218-01-9	Chrysene	U	39.6	ug/kg	11.9	39.6
205-99-2	Benzo(b)fluoranthene	U	39.6	ug/kg	11.9	39.6
207-08-9	Benzo(k)fluoranthene	U	39.6	ug/kg	11.9	39.6
50-32-8	Benzo(a)pyrene	U	39.6	ug/kg	11.9	39.6
193-39-5	Indeno(1,2,3-cd)pyrene	U	39.6	ug/kg	11.9	39.6
53-70-3	Dibenzo(a,h)anthracene	U	39.6	ug/kg	11.9	39.6
191-24-2	Benzo(ghi)perylene	U	39.6	ug/kg	11.9	39.6

"Data Validation Copy"

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201086 METHOD TYPE: SW846

SAMPLE ID: 201086005 CLIENT ID: AK3919

CONTRACT: SAIC007202

MATRIX: S DATE RECEIVED 17-JAN-08 LEVEL: Low % SOLIDS: 84

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	10700	ug/kg			P	462	1	OPTIMA2	012408-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537-1	Date Collected:	01/23/2008 16:03	Matrix:	SOIL
Lab Sample ID:	201540007	Date Received:	01/24/2008 15:05	%Moisture:	17.6
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4019	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723846	Inst:	VOA9.I	Dilution:	1
Run Date:	02/04/2008 19:10	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	01/25/2008 08:50	Aliquot:	5.6 g	Final Volume:	5 mL
Data File:	9w121.d	Column:	RTX-Volatiles	Level:	LOW

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CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		6.55 =	ug/kg	0.358	1.08
108-88-3	Toluene		23.6 =	ug/kg	0.314	1.08
100-41-4	Ethylbenzene	D E 567	193 =	ug/kg	0.217	1.08
1330-20-7	Xylenes (total)	D E 3220	793 =	ug/kg	0.217	1.08

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682-1	Date Collected:	01/23/2008 16:03	Matrix:	SOIL
Lab Sample ID:	201683010	Date Received:	01/25/2008 14:07	% Moisture:	17.6
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4019	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721999	Inst:	MSD6.1	Dilution:	1
Run Date:	01/29/2008 17:30	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 19:37	Aliquot:	30.04 g	Final Volume:	1 mL
Data File:	s6a2923.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	J	24.3 J	ug/kg	13.5	40.4
129-00-0	Pyrene		81.5 =	ug/kg	12.7	40.4
91-20-3	Naphthalene	U	40.4 U	ug/kg	12.1	40.4
91-57-6	2-Methylnaphthalene	B	198 = F01,	ug/kg F08	8.08	40.4
91-58-7	2-Chloronaphthalene	U	40.4 U	ug/kg	14.1	40.4
208-96-8	Acenaphthylene	U	40.4 U	ug/kg	12.1	40.4
86-73-7	Fluorene	J	30.8 J	ug/kg	12.1	40.4
85-01-8	Phenanthrene		121 =	ug/kg	12.1	40.4
120-12-7	Anthracene	J	20.9 J	ug/kg	8.08	40.4
206-44-0	Fluoranthene		109 =	ug/kg	12.1	40.4
56-55-3	Benzo(a)anthracene	U	40.4 U	ug/kg	12.1	40.4
218-01-9	Chrysene	U	40.4	ug/kg	12.1	40.4
205-99-2	Benzo(b)fluoranthene	U	40.4	ug/kg	12.1	40.4
207-08-9	Benzo(k)fluoranthene	U	40.4	ug/kg	12.1	40.4
50-32-8	Benzo(a)pyrene	U	40.4	ug/kg	12.1	40.4
193-39-5	Indeno(1,2,3-cd)pyrene	U	40.4	ug/kg	12.1	40.4
53-70-3	Dibenzo(a,h)anthracene	U	40.4	ug/kg	12.1	40.4
191-24-2	Benzo(ghi)perylene	U	40.4	ug/kg	12.1	40.4

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682-1 METHOD TYPE: SW846

SAMPLE ID: 201683010 CLIENT ID: AK4019

CONTRACT: SAIC08507

MATRIX: S DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS: 82

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	37.5	mg/kg			MS	0.012	1	ICPMS5	080204-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 13:46	Matrix:	SOIL
Lab Sample ID:	201744005	Date Received:	01/28/2008 14:50	%Moisture:	11
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4119DL	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA7.I	Dilution:	50
Run Date:	02/10/2008 22:07	Analyst:	GRB2	Purge Vol:	5 mL
Prep Date:	01/29/2008 07:09	Aliquot:	5.6 g	Final Volume:	10 mL
Data File:	7w716.d	Column:	DB-624	Level:	MED USR

CAS No.	Parmname		Qualifier	Result		Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		U	100	U	ug/kg	33.1	100
108-88-3	Toluene			119	=	ug/kg	29.1	100
100-41-4	Ethylbenzene	D	E	~~9900~~ 11000	=	ug/kg	20.1	100
1330-20-7	Xylenes (total)	D	E	~~48800~~ 67100	=	ug/kg	20.1	100

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 13:46	Matrix:	SOIL
Lab Sample ID:	201744005	Date Received:	01/28/2008 14:50	%Moisture:	11
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4119	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722159	Inst:	MSD6.I	Dilution:	1
Run Date:	01/30/2008 14:56	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/29/2008 19:10	Aliquot:	30 g	Final Volume:	1 mL
Data File:	s6a3017.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene		40.7 =	ug/kg	12.5	37.5
129-00-0	Pyrene		143	ug/kg	11.8	37.5
91-20-3	Naphthalene		117	ug/kg	11.2	37.5
91-57-6	2-Methylnaphthalene		241	ug/kg	7.49	37.5
91-58-7	2-Chloronaphthalene	U	37.5 U	ug/kg	13.1	37.5
208-96-8	Acenaphthylene	U	37.5 U	ug/kg	11.2	37.5
86-73-7	Fluorene		49.1 =	ug/kg	11.2	37.5
85-01-8	Phenanthrene		237	ug/kg	11.2	37.5
120-12-7	Anthracene		54.8	ug/kg	7.49	37.5
206-44-0	Fluoranthene		210	ug/kg	11.2	37.5
56-55-3	Benzo(a)anthracene		52.9	ug/kg	11.2	37.5
218-01-9	Chrysene		39.2	ug/kg	11.2	37.5
205-99-2	Benzo(b)fluoranthene	J	28.4 J	ug/kg	11.2	37.5
207-08-9	Benzo(k)fluoranthene	U	37.5 U	ug/kg	11.2	37.5
50-32-8	Benzo(a)pyrene	J	16.9 J	ug/kg	11.2	37.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	37.5 U	ug/kg	11.2	37.5
53-70-3	Dibenzo(a,h)anthracene	U	37.5	ug/kg	11.2	37.5
191-24-2	Benzo(ghi)perylene	U	37.5	ug/kg	11.2	37.5

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744 METHOD TYPE: SW846

SAMPLE ID: 201744005 CLIENT ID: AK4119

CONTRACT: SAIC08507

MATRIX:S DATE RECEIVED 28-JAN-08 LEVEL: Low %SOLIDS: 89

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	127	mg/kg			MS	0.11	20	ICPMS6	080204-2

J I01

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 14:37	Matrix:	SOIL
Lab Sample ID:	201744006	Date Received:	01/28/2008 14:50	%Moisture:	13.7
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4219	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724727	Inst:	VOA6.1	Dilution:	1
Run Date:	02/08/2008 03:48	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/29/2008 07:10	Aliquot:	5.4 g	Final Volume:	5 mL
Data File:	6w421.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.07 U	ug/kg	0.354	1.07
108-88-3	Toluene	J	0.474 J	ug/kg	0.311	1.07
100-41-4	Ethylbenzene		15.9 =	ug/kg	0.215	1.07
1330-20-7	Xylenes (total)		127 =	ug/kg	0.215	1.07

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744	Date Collected:	01/27/2008 14:37	Matrix:	SOIL
Lab Sample ID:	201744006	Date Received:	01/28/2008 14:50	% Moisture:	13.7
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4219	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722159	Inst:	MSD6.I	Dilution:	1
Run Date:	01/30/2008 15:17	Analyst:	JLD1	Inj. Vol:	.5 uL
Prep Date:	01/29/2008 19:10	Aliquot:	30.09 g	Final Volume:	1 mL
Data File:	s6a3018.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	38.5 U	ug/kg	12.9	38.5
129-00-0	Pyrene	U	38.5	ug/kg	12.1	38.5
91-20-3	Naphthalene	U	38.5	ug/kg	11.5	38.5
91-57-6	2-Methylnaphthalene	U	38.5	ug/kg	7.70	38.5
91-58-7	2-Chloronaphthalene	U	38.5	ug/kg	13.5	38.5
208-96-8	Acenaphthylene	U	38.5	ug/kg	11.5	38.5
86-73-7	Fluorene	U	38.5	ug/kg	11.5	38.5
85-01-8	Phenanthrene	U	38.5	ug/kg	11.5	38.5
120-12-7	Anthracene	U	38.5	ug/kg	7.70	38.5
206-44-0	Fluoranthene	U	38.5	ug/kg	11.5	38.5
56-55-3	Benzo(a)anthracene	U	38.5	ug/kg	11.5	38.5
218-01-9	Chrysene	U	38.5	ug/kg	11.5	38.5
205-99-2	Benzo(b)fluoranthene	U	38.5	ug/kg	11.5	38.5
207-08-9	Benzo(k)fluoranthene	U	38.5	ug/kg	11.5	38.5
50-32-8	Benzo(a)pyrene	U	38.5	ug/kg	11.5	38.5
193-39-5	Indeno(1,2,3-cd)pyrene	U	38.5	ug/kg	11.5	38.5
53-70-3	Dibenzo(a,h)anthracene	U	38.5	ug/kg	11.5	38.5
191-24-2	Benzo(ghi)perylene	U	38.5	ug/kg	11.5	38.5

DATA VALIDATION
COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744 **METHOD TYPE:** SW846

SAMPLE ID: 201744006 **CLIENT ID:** AK4219

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 28-JAN-08 **LEVEL:** Low **%SOLIDS:** 86

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	7.3	mg/kg			MS	0.012	2	ICPMS6	080201-1

J I01

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810	Date Collected:	01/28/2008 08:05	Matrix:	SOIL
Lab Sample ID:	201810001	Date Received:	01/29/2008 15:05	% Moisture:	9.9
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4319	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724730	Inst:	VOA6.I	Dilution:	1
Run Date:	02/07/2008 22:59	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/30/2008 07:14	Aliquot:	5.1 g	Final Volume:	5 mL
Data File:	6w411.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.09 u	ug/kg	0.359	1.09
108-88-3	Toluene	U	1.09	ug/kg	0.315	1.09
100-41-4	Ethylbenzene	U	1.09	ug/kg	0.218	1.09
1330-20-7	Xylenes (total)	J	0.613 J	ug/kg	0.218	1.09

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810	Date Collected:	01/28/2008 08:05	Matrix:	SOIL
Lab Sample ID:	201810001	Date Received:	01/29/2008 15:05	% Moisture:	9.9
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4319	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722395	Inst:	MSD4.I	Dilution:	1
Run Date:	01/30/2008 15:11	Analyst:	JMB3	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 12:27	Aliquot:	30.24 g	Final Volume:	1 mL
Data File:	s4a3015.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	36.7 U	ug/kg	12.3	36.7
129-00-0	Pyrene	U	36.7	ug/kg	11.5	36.7
91-20-3	Naphthalene	U	36.7	ug/kg	11.0	36.7
91-57-6	2-Methylnaphthalene	U	36.7	ug/kg	7.34	36.7
91-58-7	2-Chloronaphthalene	U	36.7	ug/kg	12.8	36.7
208-96-8	Acenaphthylene	U	36.7	ug/kg	11.0	36.7
86-73-7	Fluorene	U	36.7	ug/kg	11.0	36.7
85-01-8	Phenanthrene	U	36.7	ug/kg	11.0	36.7
120-12-7	Anthracene	U	36.7	ug/kg	7.34	36.7
206-44-0	Fluoranthene	U	36.7	ug/kg	11.0	36.7
56-55-3	Benzo(a)anthracene	U	36.7	ug/kg	11.0	36.7
218-01-9	Chrysene	U	36.7	ug/kg	11.0	36.7
205-99-2	Benzo(b)fluoranthene	U	36.7	ug/kg	11.0	36.7
207-08-9	Benzo(k)fluoranthene	U	36.7	ug/kg	11.0	36.7
50-32-8	Benzo(a)pyrene	U	36.7	ug/kg	11.0	36.7
193-39-5	Indeno(1,2,3-cd)pyrene	U	36.7	ug/kg	11.0	36.7
53-70-3	Dibenzo(a,h)anthracene	U	36.7	ug/kg	11.0	36.7
191-24-2	Benzo(ghi)perylene	U	36.7	ug/kg	11.0	36.7

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201810 **METHOD TYPE:** SW846

SAMPLE ID: 201810001 **CLIENT ID:** AK4319

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 29-JAN-08 **LEVEL:** Low **%SOLIDS:** 90.1

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	2.4	mg/kg			MS	0.011	2	ICPMS6	080201-1
		J	I01							

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810	Date Collected:	01/28/2008 09:12	Matrix:	SOIL
Lab Sample ID:	201810002	Date Received:	01/29/2008 15:05	% Moisture:	6.9
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4419	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724730	Inst:	VOA6.I	Dilution:	1
Run Date:	02/08/2008 23:34	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/30/2008 07:16	Aliquot:	4.9 g	Final Volume:	5 mL
Data File:	6w512.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.10 U	ug/kg	0.362	1.10
108-88-3	Toluene	U	1.10	ug/kg	0.318	1.10
100-41-4	Ethylbenzene	U	1.10	ug/kg	0.219	1.10
1330-20-7	Xylenes (total)	J	0.724 J GO	ug/kg	0.219	1.10

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810	Date Collected:	01/28/2008 09:12	Matrix:	SOIL
Lab Sample ID:	201810002	Date Received:	01/29/2008 15:05	%Moisture:	6.9
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4419	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722395	Inst:	MSD4.1	Dilution:	1
Run Date:	01/30/2008 16:07	Analyst:	JMB3	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 12:27	Aliquot:	30.47 g	Final Volume:	1 mL
Data File:	s4a3018.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	35.3 U	ug/kg	11.8	35.3
129-00-0	Pyrene	U	35.3	ug/kg	11.1	35.3
91-20-3	Naphthalene	U	35.3	ug/kg	10.6	35.3
91-57-6	2-Methylnaphthalene	U	35.3	ug/kg	7.05	35.3
91-58-7	2-Chloronaphthalene	U	35.3	ug/kg	12.3	35.3
208-96-8	Acenaphthylene	U	35.3	ug/kg	10.6	35.3
86-73-7	Fluorene	U	35.3	ug/kg	10.6	35.3
85-01-8	Phenanthrene	U	35.3	ug/kg	10.6	35.3
120-12-7	Anthracene	U	35.3	ug/kg	7.05	35.3
206-44-0	Fluoranthene	U	35.3	ug/kg	10.6	35.3
56-55-3	Benzo(a)anthracene	U	35.3	ug/kg	10.6	35.3
218-01-9	Chrysene	U	35.3	ug/kg	10.6	35.3
205-99-2	Benzo(b)fluoranthene	U	35.3	ug/kg	10.6	35.3
207-08-9	Benzo(k)fluoranthene	U	35.3	ug/kg	10.6	35.3
50-32-8	Benzo(a)pyrene	U	35.3	ug/kg	10.6	35.3
193-39-5	Indeno(1,2,3-cd)pyrene	U	35.3	ug/kg	10.6	35.3
53-70-3	Dibenzo(a,h)anthracene	U	35.3	ug/kg	10.6	35.3
191-24-2	Benzo(ghi)perylene	U	35.3	ug/kg	10.6	35.3

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201810 **METHOD TYPE:** SW846

SAMPLE ID: 201810002 **CLIENT ID:** AK4419

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 29-JAN-08 **LEVEL:** Low **%SOLIDS:** 93.1

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	1.2	mg/kg			MS	0.01	2	ICPMS6	080201-1

J I01

DATA VALIDATION
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Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810	Date Collected:	01/28/2008 10:40	Matrix:	SOIL
Lab Sample ID:	201810003	Date Received:	01/29/2008 15:05	%Moisture:	13.7
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4519	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724730	Inst:	VOA6.I	Dilution:	1
Run Date:	02/07/2008 23:56	Analyst:	DXR1	Purge Vol:	5 mL
Prep Date:	01/30/2008 07:21	Aliquot:	5.4 g	Final Volume:	5 mL
Data File:	6w413.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.07 u	ug/kg	0.354	1.07
108-88-3	Toluene	J	0.454 J	ug/kg	0.311	1.07
100-41-4	Ethylbenzene	U	1.07 u	ug/kg	0.215	1.07
1330-20-7	Xylenes (total)	J	0.854 J	ug/kg	0.215	1.07

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810	Date Collected:	01/28/2008 10:40	Matrix:	SOIL
Lab Sample ID:	201810003	Date Received:	01/29/2008 15:05	%Moisture:	13.7
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4519	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722395	Inst:	MSD4.I	Dilution:	1
Run Date:	01/30/2008 16:26	Analyst:	JMB3	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 12:27	Aliquot:	30.9 g	Final Volume:	1 mL
Data File:	s4a3019.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	37.5 U	ug/kg	12.5	37.5
129-00-0	Pyrene		1830 =	ug/kg	11.8	37.5
91-20-3	Naphthalene	U	37.5 U	ug/kg	11.2	37.5
91-57-6	2-Methylnaphthalene	J	11.0 J	ug/kg	7.50	37.5
91-58-7	2-Chloronaphthalene	U	37.5 U	ug/kg	13.1	37.5
208-96-8	Acenaphthylene		201 =	ug/kg	11.2	37.5
86-73-7	Fluorene	U	37.5 U	ug/kg	11.2	37.5
85-01-8	Phenanthrene	U	37.5	ug/kg	11.2	37.5
120-12-7	Anthracene	U	37.5	ug/kg	7.50	37.5
206-44-0	Fluoranthene		946 =	ug/kg	11.2	37.5
56-55-3	Benzo(a)anthracene		914	ug/kg	11.2	37.5
218-01-9	Chrysene		1030	ug/kg	11.2	37.5
205-99-2	Benzo(b)fluoranthene		965	ug/kg	11.2	37.5
207-08-9	Benzo(k)fluoranthene	U	37.5 U	ug/kg	11.2	37.5
50-32-8	Benzo(a)pyrene		656 =	ug/kg	11.2	37.5
193-39-5	Indeno(1,2,3-cd)pyrene		351	ug/kg	11.2	37.5
53-70-3	Dibenzo(a,h)anthracene		175	ug/kg	11.2	37.5
191-24-2	Benzo(ghi)perylene		431	ug/kg	11.2	37.5

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201810 **METHOD TYPE:** SW846

SAMPLE ID: 201810003 **CLIENT ID:** AK4519

CONTRACT: SAIC08507

MATRIX: S **DATE RECEIVED** 29-JAN-08 **LEVEL:** Low **%SOLIDS:** 86

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	6.9	mg/kg			MS	0.012	2	ICPMS6	080201-1
		J	I01							

DATA VALIDATION
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20080129911 201010 %

CHAIN OF CUSTODY RECORD

COC NO.: PH1Φ1Φ

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-2945-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name) Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	Moisture Content	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
AKΦ119	1/15/Φ8	12Φ3	Soil	X	X	X	—	2	4.6 ppm	
AKΦ219	1/15/Φ8	13Φ2	Soil	X	X	X		2	428 ppm	
AKΦ319	1/15/Φ8	1417	Soil	X	X	X		2	89.9 ppm	
AKΦ419	1/15/Φ8	1527	Soil	X	X	X		2	843 ppm	

TSC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	1/15/Φ8 1830	Fed Ex	1/15/Φ8 1830
COMPANY NAME: SAIC		COMPANY NAME: Fed Ex	
RECEIVED BY: M Smith	Date/Time 1-16-08 9:35	RELINQUISHED BY:	Date/Time
COMPANY NAME: GEL		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 8

Cooler ID: #12

Cooler Temperature: 4°C

FEDEX NUMBER: 833296555367

PAH and Lead together in same 8 oz jar.

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Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

20080129973

CHAIN OF CUSTODY RECORD

COC NO.: PH1011

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-2945-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

REQUESTED PARAMETERS 201086%

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
AK0719	1/16/08	0820	Soil	X	X	X	2	167 ppm	
AK0619	1/16/08	0926	Soil	X	X	X	2	4000 ppm	
AK0519	1/16/08	1023	Soil	X	X	X	2	3330 ppm	
AK3819	1/16/08	1237	Soil	X	X	X	2	122 ppm	
AK3919	1/16/08	1327	Soil	X	X	X	2	3040 ppm	

TSC

TSC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	1/16/08 1700	FedEx	1/16/08 1700
COMPANY NAME: SAIC		COMPANY NAME: FedEx	
RECEIVED BY: P. Hunt	1/17/08 0930	RELINQUISHED BY:	Date/Time
COMPANY NAME: G.E.C.B.	~~0935~~ PD	COMPANY NAME: 1/17/08	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 10

Cooler ID: #13

Cooler Temperature: 4°C

FEDEX NUMBER: 833296553378

PAH and Lead together in same 8 oz. jar.

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Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

201537, 201540

CHAIN OF CUSTODY RECORD

COC NO.: PH1012

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-~~2945-200~~ 3656-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

	Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials	OVA SCREENING	OBSERVATIONS, COMMENTS.
1	TH0619	1/23/08	0730	QA	X			2	N/A	Trip Blank
1	AK0819	1/23/08	0912	Soil	X	X	X	2	3150 ppm	
2	AK0818	1/23/08	0941	GW	X	X	X	5	N/A	
1	AK0919	1/23/08	1037	Soil	X	X	X	2	3640 ppm	
2	AK0915	1/23/08	1010	GW	X	X	X	5	N/A	Eq. Rinsate
2	AK0918	1/23/08	1055	GW	X	X	X	5	N/A	
1	AK1419	1/23/08	1147	Soil	X	X	X	2	840 ppm	
2	AK1418	1/23/08	1212	GW	X	X	X	5	N/A	
1	AK1519	1/23/08	1243	Soil	X	X	X	2	2740 ppm	
2	AK1518	1/23/08	1310	GW	X	X	X	5	N/A	250-ml bottle for dis/susD
1	AK2119	1/23/08	1359	Soil	X	X	X	2	2770 ppm	
2	AK2118	1/23/08	1418	GW	X	X	X	5	N/A	
1	AK2019	1/23/08	1441	Soil	X	X	X	2	63.1 ppm	

TAC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/23/08 1900	Wayne H. Pu	01/24/08
COMPANY NAME: SAIC		COMPANY NAME: ~~SAIC~~	
RECEIVED BY: Wayne H. Pu	01/23/08 1900	RELINQUISHED BY: Ben Watkins	1/24/08
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Wayne H. Pu	01/24/08 1200	RECEIVED BY: Ben Watkins	01/24/08 1200
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: See Pg. 2

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

RELINQUISHED Ben Watkins 1-24-08 1505

Page 2 of 2

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CHAIN OF CUSTODY RECORD

COC NO.: PH1012

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-~~2945-200~~ 3056-206

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

	Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
.2	AK2018	1/23/08	1515	GW	X	X	X	5	N/A	
.3	AK4019	1/23/08	1603	Soil	X	X	X	2	2840 ppm	
.2	AK4018	1/23/08	1628	GW	X	X	X	5	N/A	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/23/08 1900	Ben Watkins	01/24/08 1200
COMPANY NAME: SAIC		COMPANY NAME: GeL	
RECEIVED BY: [signature]	~~01/23/08~~ ~~1900~~	RELINQUISHED BY: 01/23/08 WHP 01/23/08	Date/Time
COMPANY NAME: SAIC		COMPANY NAME: 1900	
RELINQUISHED BY: [signature]	Date/Time 01/24/08 1200	RECEIVED BY: Relinquished Ben Watkins	Date/Time ~~01/24/08~~ 1/24/08 ~~1200~~ 1505 WHP
COMPANY NAME: SAIC		COMPANY NAME: GeL	

TOTAL NUMBER OF CONTAINERS: 56

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

Received by: [illegible] 15:05

Page 1 of 2

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201682, 201683

CHAIN OF CUSTODY RECORD

COC NO.: PH1Ø13

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-~~2945~~-200
3456

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
TH0620	1/24/08	0730	QA	X			2	N/A	Trip Blank
AK1019	1/24/08	0821	Soil	X	X	X	2	3040 ppm	
AK1018	1/24/08	0839	GW	X	X	X	5	N/A	
AK1119	1/24/08	0915	Soil	X	X	X	2	3340 ppm	
AK1118	1/24/08	0936	GW	X	X	X	5	N/A	
AK1219	1/24/08	1012	Soil	X	X	X	2	384 ppm	
AK1218	1/24/08	1030	GW	X	X	X	5	N/A	
AK1214	1/24/08	1030	GW	X	X	X	5	N/A	Duplicate
AK1319	1/24/08	1108	~~GW~~ Soil	X	X	X	2	11.8 ppm	
AK1318	1/24/08	1134	GW	X	X	X	5	N/A	
AK1619	1/24/08	1301	Soil	X	X	X	2	118 ppm	
AK1618	1/24/08	1328	GW	X	X	X	5	N/A	
AK1719	1/24/08	1407	Soil	X	X	X	2	741 ppm	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/24/08 1900	Ben Watkins	01/25/08 1120
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Wayne H. Pen	01/24/08 1900	RELINQUISHED BY: Ben Watkins	01/25/08 1407
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Wayne H. Pen	01/25/08 1120	RECEIVED BY: M. Smith	1/25/08 1407
COMPANY NAME: SAIC		COMPANY NAME: Gel	

TOTAL NUMBER OF CONTAINERS: See Pg. 2

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8-oz. Jar

201705 201706

Page 1 of 2

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CHAIN OF CUSTODY RECORD

COC NO.: PH1Φ14

PROJECT NAME: Hunter - Pumphouse 1 TJC

PROJECT NUMBER: 01-1055-04-~~2945~~-200 3Φ56

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

	Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
	~~TH4621~~	~~1/25/Φ8~~		~~GA~~	X			~~2~~	~~N/A~~	~~Trip Blank~~ TJC 1/25/
.1	AK1919	1/25/Φ8	Φ811	Soil	X	X	X	2	3.7 ppm	
.2	AK1918	1/25/Φ8	Φ838	GW	X	X	X	5	N/A	
.1	AK2219	1/25/Φ8	Φ913	Soil	X	X	X	2	183Φ ppm	
.1	AK2213	1/25/Φ8	Φ913	Soil	X	X	X	2	183Φ ppm	Duplicate
.2	AK2218	1/25/Φ8	Φ935	GW	X	X	X	5	N/A	
.1	AK2319	1/25/Φ8	1Φ4Φ	Soil	X	X	X	2	28ZΦ ppm	
.2	AK2318	1/25/Φ8	11Φ1	GW	X	X	X	5	N/A	
.1	AK2419	1/25/Φ8	1138	Soil	X	X	X	2	293Φ ppm	
.2	AK2418	1/25/Φ8	12Φ4	GW	X	X	X	5	N/A	
.1	AK2519	1/25/Φ8	13Φ6	Soil	X	X	X	2	13.3 ppm	
.2	AK2518	1/25/Φ8	1339	GW	X	X	X	5	N/A	
.1	AK2619	1/25/Φ8	1425	Soil	X	X	X	2	114 ppm	

TJC

B-152

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/25/08 1900	P. Merit	01/26/08 1120
COMPANY NAME: SAIC		COMPANY NAME: G.E.L.	
RECEIVED BY: Wayne H. Pu	01/25/08 1900	RELINQUISHED BY: P. Merit	1/26/08 14:15
COMPANY NAME: SAIC		COMPANY NAME: G.E.L.	
RELINQUISHED BY: Wayne H. Pu	01/26/08 1120	RECEIVED BY: Nellie Smith	1-26-08 14:15
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: See Pg. 2

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in the same 8-oz jar.

Page 1 of 2

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

20170901

COC NO.: PH1015

PROJECT NAME: Hunter - Pumphouse 1
FIC

PROJECT NUMBER: 01-1055-04-~~2045~~-200
3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

	Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
.1	AK2719	1/26/08	0828	Soil	X	X	X	2	2670 ppm	
.2	AK2718	1/26/08	0848	GW	X	X	X	5	N/A	
↓	AK2714	1/26/08	0848	GW	X	X	X	5	N/A	Duplicate
.1	AK2819	1/26/08	0940	Soil	X	X	X	2	3380 ppm	
.2	AK2818	1/26/08	0956	GW	X	X	X	5	N/A	
.1	AK2919	1/26/08	1030	Soil	X	X	X	2	3140 ppm	
.2	AK2918	1/26/08	1053	GW	X	X	X	5	N/A	
	AK3019	1/26/08	1140	Soil	X	X	X	2	3830 ppm	
.2	AK3018	1/26/08	1206	GW	X	X	X	5	N/A	Lead: 250-ml poly for MS/MSD
.1	AK3119	1/26/08	1310	Soil	X	X	X	2	0.0 ppm	
.2	AK3118	1/26/08	1330	GW	X	X	X	5	N/A	
.1	AK3719	1/26/08	1357	Soil	X	X	X	2	0.0 ppm	
↓	AK3713	1/26/08	1357	Soil	X	X	X	2	0.0 ppm	Duplicate

FIC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/26/08 1900	P. Nent	01/27/08 1200
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Mark H. Pu	01/26/08 1900	RELINQUISHED BY: P. Nent	1/27/08 14:30
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Mark H. Pu	01/27/08 1200	RECEIVED BY: Mellie Smith	1-27-08 1430
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: See pg. 2

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8-oz. jar.

Page 2 of 2

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

COC NO.: PH1015

PROJECT NAME: Hunter - Pumphouse 1 TAC

PROJECT NUMBER: 01-1055-04-~~2045~~-200 3456

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

	Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials	OVA SCREENING	OBSERVATIONS, COMMENTS.
.2	AK3718	1/26/08	1425	GW	X	X	X	5	N/A	
.1	AK3619	1/26/08	1458	Soil	X	X	X	2	3740 ppm	
.2	AK3618	1/26/08	1533	GW	X	X	X	5	N/A	

TAC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/26/08 1900	P. Nent	01/27/08 1200
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Wayne Hu	01/26/08 1900	RELINQUISHED BY: P. Nent	1/27/08 14:30
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Wayne Hu	01/27/08 1200	RECEIVED BY: Mellie Smith	1-27-08 1430
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: 56

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For Soil samples: PAH and Lead are together in same 8 oz. jar.

SAIC — An Employee-Owned Company
Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

201744, ~~201746~~ 201745

CHAIN OF CUSTODY RECORD

COC NO.: PH1Φ16

PROJECT NAME: Hunter - Pumphouse 1 TJC

PROJECT NUMBER: 01-1055-04-~~2048~~-200 3Φ56

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
AK3219	1/27/Φ8	ΦΕ24	Soil	X	X	X	2	339Φ ppm	
AK3218	1/27/Φ8	ΦΕ45	GW	X	X	X	5	N/A	
AK3214	1/27/Φ8	ΦΕ45	GW	X	X	X	5	N/A	Duplicate
AK3319	1/27/Φ8	Φ917	Soil	X	X	X	2	255Φ ppm	
AK3318	1/27/Φ8	Φ956	GW	X	X	X	5	N/A	
AK3419	1/27/Φ8	1Φ32	Soil	X	X	X	2	33ΦΦ ppm	
AK3418	1/27/Φ8	1Φ56	GW	X	X	X	5	N/A	
AK3519	1/27/Φ8	1256	Soil	X	X	X	2	232Φ ppm	
AK3518	1/27/Φ8	132Φ	GW	X	X	X	5	N/A	
AK4119	1/27/Φ8	1346	Soil	X	X	X	2	2Φ3Φ ppm	
AK4118	1/27/Φ8	1411	GW	X	X	X	5	N/A	
AK4219	1/27/Φ8	1437	Soil	X	X	X	2	212Φ ppm	
AK4218	1/27/Φ8	15ΦΖ	GW	X	X	X	5	N/A	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/27/08	[illegible]	01/28/08
COMPANY NAME: SAIC	1900	COMPANY NAME: GEL	1155
RECEIVED BY: [illegible]	01/27/08	RELINQUISHED BY: [illegible]	01/28/08
COMPANY NAME: SAIC	1900	COMPANY NAME: GEL	1450
RELINQUISHED BY: [illegible]	01/28/08	RECEIVED BY: [illegible]	1/28/08
COMPANY NAME: SAIC	1155	COMPANY NAME: GEL	1450

TOTAL NUMBER OF CONTAINERS: 47

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8 oz. jar.

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Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

2018101.
2018111.

COC NO.: PH1017

PROJECT NAME: Hunter - Pumphouse 1
TSC

PROJECT NUMBER: 01-1055-04-~~2945~~-200
3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
AK4319	1/28/08	0805	Soil	X	X	X	2	0.0 ppm	
AK4318	1/28/08	0835	GW	X	X	X	5	N/A	
AK4419	1/28/08	0912	Soil	X	X	X	2	0.0 ppm	
AK4418	1/28/08	0942	GW	X	X	X	5	N/A	
AK4519	1/28/08	1040	Soil	X	X	X	2	0.0 ppm	
AK4518	1/28/08	1101	GW	X	X	X	5	N/A	

TSC

TSC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/28/08 1900	Ben Walton	01/28/08 1145
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Wayne H. Pan	01/28/08 1900	RELINQUISHED BY: Ben Walton	01/29/08 1505
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Wayne H. Pan	01/29/08 1145	RECEIVED BY: P. Nent	1/29/08 15:05
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: 21

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8 oz jar.

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/15/2008 12:25	Matrix:	WATER
Lab Sample ID:	201112005	Date Received:	01/17/2008 09:30		
		Client:	SAJC072	Project:	SAJC007202
Client ID:	AK0118	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	720957	Inst:	VOA2J	Dilution:	1
Run Date:	01/26/2008 21:20	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	01/26/2008 21:20				
Data File:	2u632.d	Column:	DB-624	Level:	MED

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene		1.63 =	ug/L	0.250	1.00
100-41-4	Ethylbenzene	J	0.754 J	ug/L	0.250	1.00
1330-20-7	Xylenes (total)		3.35 =	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/15/2008 12:25	Matrix:	WATER
Lab Sample ID:	201112005	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK0118	Inst:	MSD7J	Dilution:	1
Batch ID:	719340	Analyst:	RMB	Inj. Vol:	.5 uL
Run Date:	01/21/2008 13:12	Aliquot:	930 mL	Final Volume:	1 mL
Prep Date:	01/18/2008 17:28	Column:	J & W DB-5MS	Level:	LOW
Data File:	s7a2106.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.08 U	ug/L	0.333	1.08
129-00-0	Pyrene	U	1.08	ug/L	0.323	1.08
91-20-3	Naphthalene	U	1.08	ug/L	0.323	1.08
91-57-6	2-Methylnaphthalene	U	1.08	ug/L	0.323	1.08
91-58-7	2-Chloronaphthalene	U	1.08	ug/L	0.376	1.08
208-96-8	Acenaphthylene	U	1.08	ug/L	0.215	1.08
86-73-7	Fluorene	U	1.08	ug/L	0.215	1.08
85-01-8	Phenanthrene	U	1.08	ug/L	0.215	1.08
120-12-7	Anthracene	U	1.08	ug/L	0.215	1.08
206-44-0	Fluoranthene	U	1.08	ug/L	0.215	1.08
56-55-3	Benzo(a)anthracene	U	1.08	ug/L	0.215	1.08
218-01-9	Chrysene	U	1.08	ug/L	0.215	1.08
205-99-2	Benzo(b)fluoranthene	U	1.08	ug/L	0.215	1.08
207-08-9	Benzo(k)fluoranthene	U	1.08	ug/L	0.215	1.08
50-32-8	Benzo(a)pyrene	U	1.08	ug/L	0.215	1.08
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.08	ug/L	0.215	1.08
53-70-3	Dibenzo(a,h)anthracene	U	1.08	ug/L	0.215	1.08
191-24-2	Benzo(ghi)perylene	U	1.08	ug/L	0.215	1.08

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201111-1 METHOD TYPE: SW846

SAMPLE ID: 201112005 CLIENT ID: AK0118

CONTRACT: SAIC007202

MATRIX: W DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	2.4	ug/L			MS	0.03	1	ICPMS6	080122-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/15/2008 13:34	Matrix:	WATER
Lab Sample ID:	201112006	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0218	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	720957	Inst:	VOA2.I	Dilution:	1
Run Date:	01/27/2008 03:40	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	01/27/2008 03:40				
Data File:	2u645.d	Column:	DB-624	Level:	MED

USQ

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	J	0.959 J	ug/L	0.300	1.00
108-88-3	Toluene	D	~~124~~ 141 =	ug/L	0.250	1.00
100-41-4	Ethylbenzene	D	~~136~~ 159 =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	D	~~459~~ 535 =	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/15/2008 13:34	Matrix:	WATER
Lab Sample ID:	201112006	Date Received:	01/17/2008 09:30		
		Client:	SAJC072	Project:	SAJC007202
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK0218	Inst:	MSD7.I	Dilution:	1
Batch ID:	719340	Analyst:	RMB	Inj. Vol:	.5 uL
Run Date:	01/21/2008 14:16	Aliquot:	980 mL	Final Volume:	1 mL
Prep Date:	01/18/2008 17:28	Column:	J & W DB-5MS	Level:	LOW
Data File:	s7a2109.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.02 U	ug/L	0.316	1.02
129-00-0	Pyrene	U	1.02 U	ug/L	0.306	1.02
91-20-3	Naphthalene		2.76 =	ug/L	0.306	1.02
91-57-6	2-Methylnaphthalene	J	0.882 J	ug/L	0.306	1.02
91-58-7	2-Chloronaphthalene	U	1.02 U	ug/L	0.357	1.02
208-96-8	Acenaphthylene	U	1.02	ug/L	0.204	1.02
86-73-7	Fluorene	U	1.02	ug/L	0.204	1.02
85-01-8	Phenanthrene	U	1.02	ug/L	0.204	1.02
120-12-7	Anthracene	U	1.02	ug/L	0.204	1.02
206-44-0	Fluoranthene	U	1.02	ug/L	0.204	1.02
56-55-3	Benzo(a)anthracene	U	1.02	ug/L	0.204	1.02
218-01-9	Chrysene	U	1.02	ug/L	0.204	1.02
205-99-2	Benzo(b)fluoranthene	U	1.02	ug/L	0.204	1.02
207-08-9	Benzo(k)fluoranthene	U	1.02	ug/L	0.204	1.02
50-32-8	Benzo(a)pyrene	U	1.02	ug/L	0.204	1.02
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.02	ug/L	0.204	1.02
53-70-3	Dibenzo(a,h)anthracene	U	1.02	ug/L	0.204	1.02
191-24-2	Benzo(ghi)perylene	U	1.02	ug/L	0.204	1.02

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201111-1 METHOD TYPE: SW846

SAMPLE ID: 201112006 CLIENT ID: AK0218

CONTRACT: SAIC007202

MATRIX: W DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	39.7	ug/L			MS	0.03	1	ICPMS6	080122-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/15/2008 13:34	Matrix:	WATER
Lab Sample ID:	201112009	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0214 DUPLICATE	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	720957	Inst:	VOA2.I	Dilution:	1
Run Date:	01/27/2008 04:10	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	01/27/2008 04:10				
Data File:	2u646.d	Column:	DB-624	Level:	MED USE

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	J	0.999 J	ug/L	0.300	1.00
108-88-3	Toluene	D ~~E~~ 122	115 =	ug/L	0.250	1.00
100-41-4	Ethylbenzene	D ~~E~~ 150	136 =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	D 496	456 =	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/15/2008 13:34	Matrix:	WATER
Lab Sample ID:	201112009	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0214 DUPLICATE	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	719340	Inst:	MSD7J	Dilution:	1
Run Date:	01/21/2008 15:20	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/18/2008 17:28	Aliquot:	950 mL	Final Volume:	1 mL
Data File:	s7a2112.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.05 U	ug/L	0.326	1.05
129-00-0	Pyrene	U	1.05 U	ug/L	0.316	1.05
91-20-3	Naphthalene		3.46 =	ug/L	0.316	1.05
91-57-6	2-Methylnaphthalene	J	1.02 J	ug/L	0.316	1.05
91-58-7	2-Chloronaphthalene	U	1.05 U	ug/L	0.368	1.05
208-96-8	Acenaphthylene	U	1.05	ug/L	0.211	1.05
86-73-7	Fluorene	U	1.05	ug/L	0.211	1.05
85-01-8	Phenanthrene	U	1.05	ug/L	0.211	1.05
120-12-7	Anthracene	U	1.05	ug/L	0.211	1.05
206-44-0	Fluoranthene	U	1.05	ug/L	0.211	1.05
56-55-3	Benzo(a)anthracene	U	1.05	ug/L	0.211	1.05
218-01-9	Chrysene	U	1.05	ug/L	0.211	1.05
205-99-2	Benzo(b)fluoranthene	U	1.05	ug/L	0.211	1.05
207-08-9	Benzo(k)fluoranthene	U	1.05	ug/L	0.211	1.05
50-32-8	Benzo(a)pyrene	U	1.05	ug/L	0.211	1.05
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.05	ug/L	0.211	1.05
53-70-3	Dibenzo(a,h)anthracene	U	1.05	ug/L	0.211	1.05
191-24-2	Benzo(ghi)perylene	U	1.05	ug/L	0.211	1.05

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201111-1 METHOD TYPE: SW846

SAMPLE ID: 201112009 CLIENT ID: AK0214
DUPLICATE

CONTRACT: SAIC007202

MATRIX:W DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	40.7	ug/L			MS	0.03	1	ICPMS6	080122-1

DATA VALIDATION

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/15/2008 14:42	Matrix:	WATER
Lab Sample ID:	201112007	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0318	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	720957	Inst:	VOA2.I	Dilution:	1
Run Date:	01/26/2008 21:49	Analyst:	CDSI	Purge Vol:	5 mL
Prep Date:	01/26/2008 21:49				
Data File:	2u633.d	Column:	DB-624	Level:	MED

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene	J	0.276 J	ug/L	0.250	1.00
100-41-4	Ethylbenzene	J	0.257 J	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	J	0.904 J	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/15/2008 14:42	Matrix:	WATER
Lab Sample ID:	201112007	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK0318	Inst:	MSD7.1	Dilution:	1
Batch ID:	719340	Analyst:	RMB	Inj. Vol:	5 uL
Run Date:	01/21/2008 14:37	Aliquot:	980 mL	Final Volume:	1 mL
Prep Date:	01/18/2008 17:28	Column:	J & W DB-5MS	Level:	LOW
Data File:	s7a2110.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.02 U	ug/L	0.316	1.02
129-00-0	Pyrene	U	1.02	ug/L	0.306	1.02
91-20-3	Naphthalene	U	1.02	ug/L	0.306	1.02
91-57-6	2-Methylnaphthalene	U	1.02	ug/L	0.306	1.02
91-58-7	2-Chloronaphthalene	U	1.02	ug/L	0.357	1.02
208-96-8	Acenaphthylene	U	1.02	ug/L	0.204	1.02
86-73-7	Fluorene	U	1.02	ug/L	0.204	1.02
85-01-8	Phenanthrene	U	1.02	ug/L	0.204	1.02
120-12-7	Anthracene	U	1.02	ug/L	0.204	1.02
206-44-0	Fluoranthene	U	1.02	ug/L	0.204	1.02
56-55-3	Benzo(a)anthracene	U	1.02	ug/L	0.204	1.02
218-01-9	Chrysene	U	1.02	ug/L	0.204	1.02
205-99-2	Benzo(b)fluoranthene	U	1.02	ug/L	0.204	1.02
207-08-9	Benzo(k)fluoranthene	U	1.02	ug/L	0.204	1.02
50-32-8	Benzo(a)pyrene	U	1.02	ug/L	0.204	1.02
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.02	ug/L	0.204	1.02
53-70-3	Dibenzo(a,h)anthracene	U	1.02	ug/L	0.204	1.02
191-24-2	Benzo(ghi)perylene	U	1.02	ug/L	0.204	1.02

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201111-1 METHOD TYPE: SW846

SAMPLE ID: 201112007 CLIENT ID: AK0318

CONTRACT: SAIC007202

MATRIX: W DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	2.2	ug/L			MS	0.03	1	ICPMS6	080122-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/15/2008 15:50	Matrix:	WATER
Lab Sample ID:	201112008	Date Received:	01/17/2008 09:30		
		Client:	SA1C072	Project:	SA1C007202
Client ID:	AK0418	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	720957	Inst:	VOA2.I	Dilution:	50
Run Date:	01/25/2008 03:44	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	01/25/2008 03:44				
Data File:	2u445.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		216 =	ug/L	15.0	50.0
108-88-3	Toluene		2360 =	ug/L	12.5	50.0
100-41-4	Ethylbenzene		1010 =	ug/L	12.5	50.0
1330-20-7	Xylenes (total)		3890 =	ug/L	12.5	50.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/15/2008 15:50	Matrix:	WATER
Lab Sample ID:	201112008	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0418	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	719340	Inst:	MSD7.1	Dilution:	1
Run Date:	01/21/2008 14:58	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/18/2008 17:28	Aliquot:	930 mL	Final Volume:	1 mL
Data File:	s7a2111.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.08 U	ug/L	0.333	1.08
129-00-0	Pyrene	U	1.08 U	ug/L	0.323	1.08
91-20-3	Naphthalene		2.60 =	ug/L	0.323	1.08
91-57-6	2-Methylnaphthalene	U	1.08 U	ug/L	0.323	1.08
91-58-7	2-Chloronaphthalene	U	1.08	ug/L	0.376	1.08
208-96-8	Acenaphthylene	U	1.08	ug/L	0.215	1.08
86-73-7	Fluorene	U	1.08	ug/L	0.215	1.08
85-01-8	Phenanthrene	U	1.08	ug/L	0.215	1.08
120-12-7	Anthracene	U	1.08	ug/L	0.215	1.08
206-44-0	Fluoranthene	U	1.08	ug/L	0.215	1.08
56-55-3	Benzo(a)anthracene	U	1.08	ug/L	0.215	1.08
218-01-9	Chrysene	U	1.08	ug/L	0.215	1.08
205-99-2	Benzo(b)fluoranthene	U	1.08	ug/L	0.215	1.08
207-08-9	Benzo(k)fluoranthene	U	1.08	ug/L	0.215	1.08
50-32-8	Benzo(a)pyrene	U	1.08	ug/L	0.215	1.08
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.08	ug/L	0.215	1.08
53-70-3	Dibenzo(a,h)anthracene	U	1.08	ug/L	0.215	1.08
191-24-2	Benzo(ghi)perylene	U	1.08	ug/L	0.215	1.08

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201111-1 METHOD TYPE: SW846

SAMPLE ID: 201112008 CLIENT ID: AK0418

CONTRACT: SAJC007202

MATRIX: W DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	165	ug/L			MS	0.03	1	ICPMS6	080122-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/16/2008 10:48	Matrix:	WATER
Lab Sample ID:	201112013	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
		Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Client ID:	AK0518	Inst:	VOA2.1	Dilution:	50
Batch ID:	720957	Analyst:	CDS1	Purge Vol:	5 mL
Run Date:	01/28/2008 15:00				
Prep Date:	01/28/2008 15:00	Column:	DB-624	Level:	LOW
Data File:	2v119.d				

CAS No.	Parmname	Qualifier	Result		Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		137	=	ug/L	15.0	50.0
108-88-3	Toluene		3730	=	ug/L	12.5	50.0
100-41-4	Ethylbenzene		542	=	ug/L	12.5	50.0
1330-20-7	Xylenes (total)		1890	=	ug/L	12.5	50.0

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/16/2008 09:43	Matrix:	WATER
Lab Sample ID:	201112012	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0618DL	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	720957	Inst:	VOA2.I	Dilution:	50
Run Date:	01/30/2008 00:26	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	01/30/2008 00:26				
Data File:	2v234.d	Column:	DB-624	Level:	LOW

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CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		106 =	ug/L	15.0	50.0
108-88-3	Toluene	D E10100	10300 =	ug/L	12.5	50.0
100-41-4	Ethylbenzene		1030 =	ug/L	12.5	50.0
1330-20-7	Xylenes (total)		3900 =	ug/L	12.5	50.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/16/2008 09:43	Matrix:	WATER
Lab Sample ID:	201112012	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK0618	Inst:	MSD7.3	Dilution:	1
Batch ID:	719340	Analyst:	RMB	Inj. Vol:	.5 uL
Run Date:	01/21/2008 16:25	Aliquot:	1000 mL	Final Volume:	1 mL
Prep Date:	01/18/2008 17:28	Column:	J & W DB-5MS	Level:	LOW
Data File:	s7a2115.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		5.06 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene		1.48 =	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201111-1 METHOD TYPE: SW846

SAMPLE ID: 201112012 CLIENT ID: AK0618

CONTRACT: SAIC007202

MATRIX: W DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	67.7	ug/L			MS	0.03	1	ICPMS6	080123

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/16/2008 08:37	Matrix:	WATER
Lab Sample ID:	201112010	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
		Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Client ID:	AK0718	Inst:	VOA2.I	Dilution:	1
Batch ID:	720957	Analyst:	CDS1	Purge Vol:	5 mL
Run Date:	01/26/2008 22:19				
Prep Date:	01/26/2008 22:19	Column:	DB-624	Level:	MED
Data File:	2u634.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene	J	0.622 J	ug/L	0.250	1.00
100-41-4	Ethylbenzene	J	0.367 J	ug/L	0.250	1.00
1330-20-7	Xylenes (total)		1.56 =	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/16/2008 08:37	Matrix:	WATER
Lab Sample ID:	201112010	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK0718	Inst:	MSD7.I	Dilution:	1
Batch ID:	719340	Analyst:	RMB	Inj. Vol:	.5 uL
Run Date:	01/21/2008 15:41	Aliquot:	1000 mL	Final Volume:	1 mL
Prep Date:	01/18/2008 17:28	Column:	J & W DB-5MS	Level:	LOW
Data File:	s7a2113.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	U	1.00	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201111-1 METHOD TYPE: SW846

SAMPLE ID: 201112010 CLIENT ID: AK0718

CONTRACT: SAIC007202

MATRIX: W DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	0.320	ug/L	B		MS	0.03	1	ICPMS6	080122-1

J

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/16/2008 08:37	Matrix:	WATER
Lab Sample ID:	201112011	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0714 DUPLICATE	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	720957	Inst:	VOA2.I	Dilution:	1
Run Date:	01/26/2008 22:48	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	01/26/2008 22:48				
Data File:	2u635.d	Column:	DB-624	Level:	MED

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene	J	0.553 J	ug/L	0.250	1.00
100-41-4	Ethylbenzene	J	0.357 J	ug/L	0.250	1.00
1330-20-7	Xylenes (total)		1.65 =	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/16/2008 08:37	Matrix:	WATER
Lab Sample ID:	201112011	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK0714 DUPLICATE	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	719340	Inst:	MSD7.1	Dilution:	1
Run Date:	01/21/2008 16:03	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/18/2008 17:28	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7a2114.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	U	1.00	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201111-1 METHOD TYPE: SW846

SAMPLE ID: 201112011 CLIENT ID: AK0714
DUPLICATE

CONTRACT: SAJC007202

MATRIX: W DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	0.330	ug/L	B		MS	0.03	1	ICPMS6	080122-1
		J								

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 09:41	Matrix:	GROUND WATER
Lab Sample ID:	201537002	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK0818	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723384	Inst:	VOA2.I	Dilution:	20
Run Date:	02/04/2008 16:53	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/04/2008 16:53				
Data File:	2w120.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		131	ug/L	6.00	20.0
108-88-3	Toluene		917	ug/L	5.00	20.0
100-41-4	Ethylbenzene		827	ug/L	5.00	20.0
1330-20-7	Xylenes (total)		3740	ug/L	5.00	20.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 09:41	Matrix:	GROUND WATER
Lab Sample ID:	201537002	Date Received:	01/24/2008 15:05		
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK0818	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721970	Inst:	MSD5.I	Dilution:	4
Run Date:	01/29/2008 11:30	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 17:06	Aliquot:	1030 mL	Final Volume:	1 mL
Data File:	s5a2909.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	3.88 UJ	ug/L G02	1.20	3.88
129-00-0	Pyrene	U	3.88 UJ	ug/L	1.17	3.88
91-20-3	Naphthalene	J	2.53 J	ug/L	1.17	3.88
91-57-6	2-Methylnaphthalene	U	3.88 UJ	ug/L	1.17	3.88
91-58-7	2-Chloronaphthalene	U	3.88	ug/L	1.36	3.88
208-96-8	Acenaphthylene	U	3.88	ug/L	0.777	3.88
86-73-7	Fluorene	U	3.88	ug/L	0.777	3.88
85-01-8	Phenanthrene	U	3.88	ug/L	0.777	3.88
120-12-7	Anthracene	U	3.88	ug/L	0.777	3.88
206-44-0	Fluoranthene	U	3.88	ug/L	0.777	3.88
56-55-3	Benzo(a)anthracene	U	3.88	ug/L	0.777	3.88
218-01-9	Chrysene	U	3.88	ug/L	0.777	3.88
205-99-2	Benzo(b)fluoranthene	U	3.88	ug/L	0.777	3.88
207-08-9	Benzo(k)fluoranthene	U	3.88	ug/L	0.777	3.88
50-32-8	Benzo(a)pyrene	U	3.88	ug/L	0.777	3.88
193-39-5	Indeno(1,2,3-cd)pyrene	U	3.88	ug/L	0.777	3.88
53-70-3	Dibenzo(a,h)anthracene	U	3.88	ug/L	0.777	3.88
191-24-2	Benzo(ghi)perylene	U	3.88	ug/L	0.777	3.88

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537 METHOD TYPE: SW846

SAMPLE ID: 201537002 CLIENT ID: AK0818

CONTRACT: SAJC08507

MATRIX:G DATE RECEIVED 24-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	65.6	ug/L			MS	0.05	1	ICPMS6	080131-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 10:55	Matrix:	GROUND WATER
Lab Sample ID:	201537004	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK0918	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723384	Inst:	VOA2.I	Dilution:	1
Run Date:	02/05/2008 12:34	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/05/2008 12:34				
Data File:	2w213.d	Column:	DB-624	Level:	LOW

USD

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	J	0.815 J	ug/L	0.300	1.00
108-88-3	Toluene		7.36 =	ug/L	0.250	1.00
100-41-4	Ethylbenzene	D	E 641 314 =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	D	2080 ~~928~~ =	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 10:55	Matrix:	GROUND WATER
Lab Sample ID:	201537004	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK0918	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721970	Inst:	MSD5.I	Dilution:	4
Run Date:	01/29/2008 12:12	Analyst:	BJB3	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 17:06	Aliquot:	990 mL	Final Volume:	1 mL
Data File:	s5a2911.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	4.04 U	ug/L	1.25	4.04
129-00-0	Pyrene	U	4.04 U	ug/L	1.21	4.04
91-20-3	Naphthalene		10.1 =	ug/L	1.21	4.04
91-57-6	2-Methylnaphthalene	J	2.86 J	ug/L	1.21	4.04
91-58-7	2-Chloronaphthalene	U	4.04 U	ug/L	1.41	4.04
208-96-8	Acenaphthylene	U	4.04	ug/L	0.808	4.04
86-73-7	Fluorene	U	4.04	ug/L	0.808	4.04
85-01-8	Phenanthrene	U	4.04	ug/L	0.808	4.04
120-12-7	Anthracene	U	4.04	ug/L	0.808	4.04
206-44-0	Fluoranthene	U	4.04	ug/L	0.808	4.04
56-55-3	Benzo(a)anthracene	U	4.04	ug/L	0.808	4.04
218-01-9	Chrysene	U	4.04	ug/L	0.808	4.04
205-99-2	Benzo(b)fluoranthene	U	4.04	ug/L	0.808	4.04
207-08-9	Benzo(k)fluoranthene	U	4.04	ug/L	0.808	4.04
50-32-8	Benzo(a)pyrene	U	4.04	ug/L	0.808	4.04
193-39-5	Indeno(1,2,3-cd)pyrene	U	4.04	ug/L	0.808	4.04
53-70-3	Dibenzo(a,h)anthracene	U	4.04	ug/L	0.808	4.04
191-24-2	Benzo(ghi)perylene	U	4.04	ug/L	0.808	4.04

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537 METHOD TYPE: SW846

SAMPLE ID: 201537004 CLIENT ID: AK0918

CONTRACT: SAIC08507

MATRIX: G DATE RECEIVED 24-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	34	ug/L			MS	0.05	1	ICPMS6	080131-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 08:39	Matrix:	WATER
Lab Sample ID:	201682002	Date Received:	01/25/2008 14:07		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1018	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724167	Inst:	VOA2.I	Dilution:	20
Run Date:	02/05/2008 14:42	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/05/2008 14:42				
Data File:	2w217.d	Column:	DB-624	Level:	LOW USR

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		171 =	ug/L	6.00	20.0
108-88-3	Toluene	D	5830 4770 =	ug/L	5.00	20.0
100-41-4	Ethylbenzene		577 =	ug/L	5.00	20.0
1330-20-7	Xylenes (total)		3610 =	ug/L	5.00	20.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 08:39	Matrix:	WATER
Lab Sample ID:	201682002	Date Received:	01/25/2008 14:07		
		Client:	SAIC085	Project:	SAIC08507
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK1018	Inst:	MSD7.I	Dilution:	1
Batch ID:	722061	Analyst:	RMB	Inj. Vol:	.5 uL
Run Date:	01/29/2008 16:57	Aliquot:	1000 mL	Final Volume:	1 mL
Prep Date:	01/29/2008 14:08	Column:	J & W DB-5MS	Level:	LOW
Data File:	s7a2909.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		4.69 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	J	0.975 J	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682 METHOD TYPE: SW846

SAMPLE ID: 201682002 CLIENT ID: AK1018

CONTRACT: SAJC08507

MATRIX: W DATE RECEIVED 25-JAN-08 LEVEL: Low % SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	16.2	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 09:36	Matrix:	WATER
Lab Sample ID:	201682003	Date Received:	01/25/2008 14:07		
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1118	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724167	Inst:	VOA2.I	Dilution:	100
Run Date:	02/07/2008 09:58	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/07/2008 09:58				
Data File:	2w408.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		133 =	ug/L	30.0	100
108-88-3	Toluene		6680 =	ug/L	25.0	100
100-41-4	Ethylbenzene		1070 =	ug/L	25.0	100
1330-20-7	Xylenes (total)	B	5670 = F01,	ug/L F08	25.0	100

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 09:36	Matrix:	WATER
Lab Sample ID:	201682003	Date Received:	01/25/2008 14:07		
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1118	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722061	Inst:	MSD7.I	Dilution:	1
Run Date:	01/29/2008 17:18	Analyst:	RMB	Inj. Vol:	5 uL
Prep Date:	01/29/2008 14:08	Aliquot:	980 mL	Final Volume:	1 mL
Data File:	s7a2910.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.02 U	ug/L	0.316	1.02
129-00-0	Pyrene	U	1.02 U	ug/L	0.306	1.02
91-20-3	Naphthalene		6.72 =	ug/L	0.306	1.02
91-57-6	2-Methylnaphthalene		1.36 =	ug/L	0.306	1.02
91-58-7	2-Chloronaphthalene	U	1.02 U	ug/L	0.357	1.02
208-96-8	Acenaphthylene	U	1.02	ug/L	0.204	1.02
86-73-7	Fluorene	U	1.02	ug/L	0.204	1.02
85-01-8	Phenanthrene	U	1.02	ug/L	0.204	1.02
120-12-7	Anthracene	U	1.02	ug/L	0.204	1.02
206-44-0	Fluoranthene	U	1.02	ug/L	0.204	1.02
56-55-3	Benzo(a)anthracene	U	1.02	ug/L	0.204	1.02
218-01-9	Chrysene	U	1.02	ug/L	0.204	1.02
205-99-2	Benzo(b)fluoranthene	U	1.02	ug/L	0.204	1.02
207-08-9	Benzo(k)fluoranthene	U	1.02	ug/L	0.204	1.02
50-32-8	Benzo(a)pyrene	U	1.02	ug/L	0.204	1.02
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.02	ug/L	0.204	1.02
53-70-3	Dibenzo(a,h)anthracene	U	1.02	ug/L	0.204	1.02
191-24-2	Benzo(ghi)perylene	U	1.02	ug/L	0.204	1.02

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682 METHOD TYPE: SW846

SAMPLE ID: 201682003 CLIENT ID: AK1118

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	36.4	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 10:30	Matrix:	WATER
Lab Sample ID:	201682004	Date Received:	01/25/2008 14:07		
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1218	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724167	Inst:	VOA2.I	Dilution:	1
Run Date:	02/07/2008 07:59	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/07/2008 07:59				
Data File:	2w404.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene		4.46 =	ug/L	0.250	1.00
100-41-4	Ethylbenzene		83.9 =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	B	192 = F01, F08	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 10:30	Matrix:	WATER
Lab Sample ID:	201682004	Date Received:	01/25/2008 14:07		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1218	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722061	Inst:	MSD7.I	Dilution:	1
Run Date:	01/29/2008 17:39	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/29/2008 14:08	Aliquot:	980 mL	Final Volume:	1 mL
Data File:	s7a2911.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.02 U	ug/L	0.316	1.02
129-00-0	Pyrene	U	1.02 U	ug/L	0.308	1.02
91-20-3	Naphthalene		6.52 =	ug/L	0.308	1.02
91-57-6	2-Methylnaphthalene		3.41 =	ug/L	0.308	1.02
91-58-7	2-Chloronaphthalene	U	1.02 U	ug/L	0.357	1.02
208-96-8	Acenaphthylene	U	1.02	ug/L	0.204	1.02
86-73-7	Fluorene	U	1.02	ug/L	0.204	1.02
85-01-8	Phenanthrene	J	0.528 J	ug/L	0.204	1.02
120-12-7	Anthracene	U	1.02 U	ug/L	0.204	1.02
206-44-0	Fluoranthene	U	1.02	ug/L	0.204	1.02
56-55-3	Benzo(a)anthracene	U	1.02	ug/L	0.204	1.02
218-01-9	Chrysene	U	1.02	ug/L	0.204	1.02
205-99-2	Benzo(b)fluoranthene	U	1.02	ug/L	0.204	1.02
207-08-9	Benzo(k)fluoranthene	U	1.02	ug/L	0.204	1.02
50-32-8	Benzo(a)pyrene	U	1.02	ug/L	0.204	1.02
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.02	ug/L	0.204	1.02
53-70-3	Dibenzo(a,h)anthracene	U	1.02	ug/L	0.204	1.02
191-24-2	Benzo(ghi)perylene	U	1.02	ug/L	0.204	1.02

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682 METHOD TYPE: SW846

SAMPLE ID: 201682004 CLIENT ID: AK1218

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	12.8	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 10:30	Matrix:	WATER
Lab Sample ID:	201682005	Date Received:	01/25/2008 14:07		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1214 DUPLICATE	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724167	Inst:	VOA2.I	Dilution:	1
Run Date:	02/07/2008 08:29	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/07/2008 08:29				
Data File:	2w405.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene		4.12 =	ug/L	0.250	1.00
100-41-4	Ethylbenzene		80.1 =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	B	183 = F01,	ug/L F08	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 10:30	Matrix:	WATER
Lab Sample ID:	201682005	Date Received:	01/25/2008 14:07		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1214 DUPLICATE	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722061	Inst:	MSD7.3	Dilution:	1
Run Date:	01/29/2008 18:03	Analyst:	RMB	Inj. Vol:	.5 ul.
Prep Date:	01/29/2008 14:08	Aliquot:	970 ml.	Final Volume:	1 ml.
Data File:	s7a2912.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.03 U	ug/L	0.20	1.03
129-00-0	Pyrene	U	1.03 U	ug/L	0.20	1.03
91-20-3	Naphthalene		6.96 =	ug/L	0.20	1.03
91-57-6	2-Methylnaphthalene		3.47 =	ug/L	0.20	1.03
91-58-7	2-Chloronaphthalene	U	1.03 U	ug/L	0.20	1.03
208-96-8	Acenaphthylene	U	1.03	ug/L	0.20	1.03
86-73-7	Fluorene	U	1.03	ug/L	0.20	1.03
85-01-8	Phenanthrene	J	0.532 J	ug/L	0.20	1.03
120-12-7	Anthracene	U	1.03 U	ug/L	0.20	1.03
206-44-0	Fluoranthene	U	1.03	ug/L	0.20	1.03
56-55-3	Benzo(a)anthracene	U	1.03	ug/L	0.20	1.03
218-01-9	Chrysene	U	1.03	ug/L	0.20	1.03
205-99-2	Benzo(b)fluoranthene	U	1.03	ug/L	0.20	1.03
207-08-9	Benzo(k)fluoranthene	U	1.03	ug/L	0.20	1.03
50-32-8	Benzo(a)pyrene	U	1.03	ug/L	0.20	1.03
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.03	ug/L	0.20	1.03
53-70-3	Dibenzo(a,h)anthracene	U	1.03	ug/L	0.20	1.03
191-24-2	Benzo(ghi)perylene	U	1.03	ug/L	0.20	1.03

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682 METHOD TYPE: SW846

SAMPLE ID: 201682005 CLIENT ID: AK1214
DUPLICATE

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	12.1	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 11:34	Matrix:	WATER
Lab Sample ID:	201682006	Date Received:	01/25/2008 14:07		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1318	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724167	Inst:	VOA2.I	Dilution:	1
Run Date:	02/07/2008 10:27	Analyst:	CDSI	Purge Vol:	5 mL
Prep Date:	02/07/2008 10:27				
Data File:	2w409.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	J	0.538 J	ug/L	0.300	1.00
108-88-3	Toluene	J	0.476 J	ug/L	0.250	1.00
100-41-4	Ethylbenzene	U	1.00 U	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	BJ	1.00 ~~0.277~~ U F01,	ug/L F06	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 11:34	Matrix:	WATER
Lab Sample ID:	201682006	Date Received:	01/25/2008 14:07		
		Client:	SA1C085	Project:	SA1C08507
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK1318	Inst:	MSD7.1	Dilution:	1
Batch ID:	722061	Analyst:	RMB	Inj. Vol:	.5 uL
Run Date:	01/29/2008 18:22	Aliquot:	980 mL	Final Volume:	1 mL
Prep Date:	01/29/2008 14:08	Column:	J & W DB-5MS	Level:	LOW
Data File:	s7a2913.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.02 U	ug/L	0.316	1.02
129-00-0	Pyrene	U	1.02	ug/L	0.306	1.02
91-20-3	Naphthalene	U	1.02	ug/L	0.306	1.02
91-57-6	2-Methylnaphthalene	U	1.02	ug/L	0.306	1.02
91-58-7	2-Chloronaphthalene	U	1.02	ug/L	0.357	1.02
208-96-8	Acenaphthylene	U	1.02	ug/L	0.204	1.02
86-73-7	Fluorene	U	1.02	ug/L	0.204	1.02
85-01-8	Phenanthrene	U	1.02	ug/L	0.204	1.02
120-12-7	Anthracene	U	1.02	ug/L	0.204	1.02
206-44-0	Fluoranthene	U	1.02	ug/L	0.204	1.02
56-55-3	Benzo(a)anthracene	U	1.02	ug/L	0.204	1.02
218-01-9	Chrysene	U	1.02	ug/L	0.204	1.02
205-99-2	Benzo(b)fluoranthene	U	1.02	ug/L	0.204	1.02
207-08-9	Benzo(k)fluoranthene	U	1.02	ug/L	0.204	1.02
50-32-8	Benzo(a)pyrene	U	1.02	ug/L	0.204	1.02
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.02	ug/L	0.204	1.02
53-70-3	Dibenzo(a,h)anthracene	U	1.02	ug/L	0.204	1.02
191-24-2	Benzo(ghi)perylene	U	1.02	ug/L	0.204	1.02

DATA VALIDATION
COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682 METHOD TYPE: SW846

SAMPLE ID: 201682006 CLIENT ID: AK1318

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 25-JAN-08 LEVEL: Low % SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	0.630	ug/L	B		MS	0.05	1	ICPMS5	080205-1

5

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 12:12	Matrix:	GROUND WATER
Lab Sample ID:	201537005	Date Received:	01/24/2008 15:05		
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1418	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723384	Inst:	VOA2.I	Dilution:	50
Run Date:	02/04/2008 21:42	Analyst:	CDSI	Purge Vol:	5 mL
Prep Date:	02/04/2008 21:42				
Data File:	2w130.d	Column:	DB-624	Level:	LOW

USE

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		738	ug/L	15.0	50.0
108-88-3	Toluene	D	5680	ug/L	12.5	50.0
100-41-4	Ethylbenzene		808	ug/L	12.5	50.0
1330-20-7	Xylenes (total)		3680	ug/L	12.5	50.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 12:12	Matrix:	GROUND WATER
Lab Sample ID:	201537005	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1418	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721970	Inst:	MSD5.I	Dilution:	4
Run Date:	01/29/2008 12:33	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 17:06	Aliquot:	990 mL	Final Volume:	1 mL
Data File:	s5a2912.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	4.04 U	ug/L	1.25	4.04
129-00-0	Pyrene	U	4.04 U	ug/L	1.21	4.04
91-20-3	Naphthalene		6.48 =	ug/L	1.21	4.04
91-57-6	2-Methylnaphthalene	J	1.62 J	ug/L	1.21	4.04
91-58-7	2-Chloronaphthalene	U	4.04 U	ug/L	1.41	4.04
208-96-8	Acenaphthylene	U	4.04	ug/L	0.808	4.04
86-73-7	Fluorene	U	4.04	ug/L	0.808	4.04
85-01-8	Phenanthrene	U	4.04	ug/L	0.808	4.04
120-12-7	Anthracene	U	4.04	ug/L	0.808	4.04
206-44-0	Fluoranthene	U	4.04	ug/L	0.808	4.04
56-55-3	Benzo(a)anthracene	U	4.04	ug/L	0.808	4.04
218-01-9	Chrysene	U	4.04	ug/L	0.808	4.04
205-99-2	Benzo(b)fluoranthene	U	4.04	ug/L	0.808	4.04
207-08-9	Benzo(k)fluoranthene	U	4.04	ug/L	0.808	4.04
50-32-8	Benzo(a)pyrene	U	4.04	ug/L	0.808	4.04
193-39-5	Indeno(1,2,3-cd)pyrene	U	4.04	ug/L	0.808	4.04
53-70-3	Dibenzo(a,h)anthracene	U	4.04	ug/L	0.808	4.04
191-24-2	Benzo(ghi)perylene	U	4.04	ug/L	0.808	4.04

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537 METHOD TYPE: SW846

SAMPLE ID: 201537005 CLIENT ID: AK141S

CONTRACT: SAIC08507

MATRIX: G DATE RECEIVED 24-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	32.9	ug/L			MS	0.05	1	ICPMS6	080131-3

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 13:10	Matrix:	GROUND WATER
Lab Sample ID:	201537006	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1518	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723384	Inst:	VOA2.I	Dilution:	10
Run Date:	02/04/2008 22:11	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/04/2008 22:11				
Data File:	2w131.d	Column:	DB-624	Level:	LOW

USD

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		156 =	ug/L	3.00	10.0
108-88-3	Toluene	D ~~1070~~ 1140	~~1070~~ =	ug/L	2.50	10.0
100-41-4	Ethylbenzene		384 =	ug/L	2.50	10.0
1330-20-7	Xylenes (total)		1800 =	ug/L	2.50	10.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 13:30	Matrix:	GROUND WATER
Lab Sample ID:	201537006	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1538	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721970	Inst:	MSD5.I	Dilution:	4
Run Date:	01/29/2008 12:55	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 17:06	Aliquot:	1050 mL	Final Volume:	1 mL
Data File:	s5a2913.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	3.81 U	ug/L	1.18	3.81
129-00-0	Pyrene	U	3.81 U	ug/L	1.14	3.81
91-20-3	Naphthalene		5.24 =	ug/L	1.14	3.81
91-57-6	2-Methylnaphthalene	U	3.81 U	ug/L	1.14	3.81
91-58-7	2-Chloronaphthalene	U	3.81	ug/L	1.33	3.81
208-96-8	Acenaphthylene	U	3.81	ug/L	0.762	3.81
86-73-7	Fluorene	U	3.81	ug/L	0.762	3.81
85-01-8	Phenanthrene	U	3.81	ug/L	0.762	3.81
120-12-7	Anthracene	U	3.81	ug/L	0.762	3.81
206-44-0	Fluoranthene	U	3.81	ug/L	0.762	3.81
56-55-3	Benzo(a)anthracene	U	3.81	ug/L	0.762	3.81
218-01-9	Chrysene	U	3.81	ug/L	0.762	3.81
205-99-2	Benzo(b)fluoranthene	U	3.81	ug/L	0.762	3.81
207-08-9	Benzo(k)fluoranthene	U	3.81	ug/L	0.762	3.81
50-32-8	Benzo(a)pyrene	U	3.81	ug/L	0.762	3.81
193-39-5	Indeno(1,2,3-cd)pyrene	U	3.81	ug/L	0.762	3.81
53-70-3	Dibenzo(a,h)anthracene	U	3.81	ug/L	0.762	3.81
191-24-2	Benzo(ghi)perylene	U	3.81	ug/L	0.762	3.81

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537 METHOD TYPE: SW846

SAMPLE ID: 201537006 CLIENT ID: AK1518

CONTRACT: SAJC08507

MATRIX: G DATE RECEIVED 24-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	10.4	ug/L			MS	0.05	1	ICPMS6	080131-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 13:28	Matrix:	WATER
Lab Sample ID:	201682007	Date Received:	01/25/2008 14:07		
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1618	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724167	Inst:	VOA2.1	Dilution:	20
Run Date:	02/07/2008 14:54	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/07/2008 14:54				
Data File:	2w418.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		35.5 =	ug/L	6.00	20.0
108-88-3	Toluene		333 =	ug/L	5.00	20.0
100-41-4	Ethylbenzene		810 =	ug/L	5.00	20.0
1330-20-7	Xylenes (total)	B	3570 = F01,	ug/L F08	5.00	20.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 13:28	Matrix:	WATER
Lab Sample ID:	201682007	Date Received:	01/25/2008 14:07		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1618	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722061	Inst:	MSD7.1	Dilution:	1
Run Date:	01/29/2008 18:44	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/29/2008 14:08	Aliquot:	980 mL	Final Volume:	1 mL
Data File:	s7a2914.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.02 U	ug/L	0.316	1.02
129-00-0	Pyrene	U	1.02 U	ug/L	0.306	1.02
91-20-3	Naphthalene		9.75 =	ug/L	0.306	1.02
91-57-6	2-Methylnaphthalene		2.12 =	ug/L	0.306	1.02
91-58-7	2-Chloronaphthalene	U	1.02 U	ug/L	0.357	1.02
208-96-8	Acenaphthylene	U	1.02 U	ug/L	0.204	1.02
86-73-7	Fluorene	J	0.349 J	ug/L	0.204	1.02
85-01-8	Phenanthrene	U	1.02 U	ug/L	0.204	1.02
120-12-7	Anthracene	U	1.02	ug/L	0.204	1.02
206-44-0	Fluoranthene	U	1.02	ug/L	0.204	1.02
56-55-3	Benzo(a)anthracene	U	1.02	ug/L	0.204	1.02
218-01-9	Chrysene	U	1.02	ug/L	0.204	1.02
205-99-2	Benzo(b)fluoranthene	U	1.02	ug/L	0.204	1.02
207-08-9	Benzo(k)fluoranthene	U	1.02	ug/L	0.204	1.02
50-32-8	Benzo(a)pyrene	U	1.02	ug/L	0.204	1.02
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.02	ug/L	0.204	1.02
53-70-3	Dibenzo(a,h)anthracene	U	1.02	ug/L	0.204	1.02
191-24-2	Benzo(ghi)perylene	U	1.02	ug/L	0.204	1.02

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682 METHOD TYPE: SW846

SAMPLE ID: 201682007 CLIENT ID: AK1618

CONTRACT: SAJC08507

MATRIX: W DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	6.5	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 14:28	Matrix:	WATER
Lab Sample ID:	201682008	Date Received:	01/25/2008 14:07		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1718	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724167	Inst:	VOA2.I	Dilution:	1
Run Date:	02/05/2008 17:05	Analyst:	CDSJ	Purge Vol:	5 mL
Prep Date:	02/05/2008 17:05				
Data File:	2w222.d	Column:	DB-624	Level:	LOW

USQ

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		5.97 =	ug/L	0.300	1.00
108-88-3	Toluene	D ~~R~~	2350 ~~782~~ =	ug/L	0.250	1.00
100-41-4	Ethylbenzene	D ~~R~~	440 ~~262~~ =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	DB	2070 ~~920~~ = F01,	ug/L F08	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 14:28	Matrix:	WATER
Lab Sample ID:	201682008	Date Received:	01/25/2008 14:07		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1718	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722061	Inst:	MSD7.1	Dilution:	1
Run Date:	01/29/2008 19:05	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/29/2008 14:08	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7a2915.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		4.05 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene		1.15 =	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682 METHOD TYPE: SW846

SAMPLE ID: 201682008 CLIENT ID: AK1718

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	14.8	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 14:28	Matrix:	WATER
Lab Sample ID:	201682009	Date Received:	01/25/2008 14:07		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1714 DUPLICATE	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724167	Inst:	VOA2.I	Dilution:	1
Run Date:	02/07/2008 12:53	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/07/2008 12:53				
Data File:	2w414.d	Column:	DB-624	Level:	LOW USR

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		6.51 =	ug/L	0.300	1.00
108-88-3	Toluene	D ~~E~~ 2250	910 =	ug/L	0.250	1.00
100-41-4	Ethylbenzene	D ~~E~~ 415	317 =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	DB B 1910	~~1400~~ = F01,	ug/L F08	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 14:28	Matrix:	WATER
Lab Sample ID:	201682009	Date Received:	01/25/2008 14:07		
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK1714 DUPLICATE	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722061	Inst:	MSD7.1	Dilution:	1
Run Date:	01/29/2008 19:26	Analyst:	RMB	Inj. Vol:	5 ul.
Prep Date:	01/29/2008 14:08	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7a2916.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		3.78 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene		1.01 =	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682 METHOD TYPE: SW846

SAMPLE ID: 201682009 CLIENT ID: AK1714 DUPLICATE

CONTRACT: SA1C08507

MATRIX: W DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	12.6	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	**Date Collected:**	01/24/2008 15:25	**Matrix:**	WATER
Lab Sample ID:	201682010	**Date Received:**	01/25/2008 14:07		
		Client:	SA1C085	**Project:**	SA1C08507
Client ID:	AK1818	**Method:**	SW846 8260B	**SOP Ref:**	GL-OA-E-038
Batch ID:	724167	**Inst:**	VOA2.I	**Dilution:**	1
Run Date:	02/05/2008 22:42	**Analyst:**	CDS1	**Purge Vol:**	5 mL
Prep Date:	02/05/2008 22:42				
Data File:	2w233.d	**Column:**	DB-624	**Level:**	LOW

USR

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		1.56 =	ug/L	0.300	1.00
108-88-3	Toluene	D ~~E~~ 246 ~~172~~ =		ug/L	0.250	1.00
100-41-4	Ethylbenzene	D ~~E~~ 1500 ~~420~~ =		ug/L	0.250	1.00
1330-20-7	Xylenes (total)	DB 5190 ~~1420~~ = F01,		ug/L F08	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201682	Date Collected:	01/24/2008 15:25	Matrix:	WATER
Lab Sample ID:	201682010	Date Received:	01/25/2008 14:07		
		Client:	SATC085	Project:	SATC08507
Client ID:	AK1818	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722061	Inst:	MSD7.I	Dilution:	1
Run Date:	01/29/2008 19:47	Analyst:	RMB	Inj. Vol:	5 uL
Prep Date:	01/29/2008 14:08	Aliquot:	1040 mL	Final Volume:	1 mL
Data File:	s7a2917.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	0.962 U	ug/L	0.298	0.962
129-00-0	Pyrene	U	0.962	ug/L	0.288	0.962
91-20-3	Naphthalene	U	0.962	ug/L	0.288	0.962
91-57-6	2-Methylnaphthalene	U	0.962	ug/L	0.288	0.962
91-58-7	2-Chloronaphthalene	U	0.962	ug/L	0.335	0.962
208-96-8	Acenaphthylene	U	0.962	ug/L	0.192	0.962
86-73-7	Fluorene	U	0.962	ug/L	0.192	0.962
85-01-8	Phenanthrene	J	0.328 J	ug/L	0.192	0.962
120-12-7	Anthracene	U	0.962 U	ug/L	0.192	0.962
206-44-0	Fluoranthene	U	0.962	ug/L	0.192	0.962
56-55-3	Benzo(a)anthracene	U	0.962	ug/L	0.192	0.962
218-01-9	Chrysene	U	0.962	ug/L	0.192	0.962
205-99-2	Benzo(b)fluoranthene	U	0.962	ug/L	0.192	0.962
207-08-9	Benzo(k)fluoranthene	U	0.962	ug/L	0.192	0.962
50-32-8	Benzo(a)pyrene	U	0.962	ug/L	0.192	0.962
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.962	ug/L	0.192	0.962
53-70-3	Dibenzo(a,h)anthracene	U	0.962	ug/L	0.192	0.962
191-24-2	Benzo(ghi)perylene	U	0.962	ug/L	0.192	0.962

DATA VALIDATION
COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201682 METHOD TYPE: SW846

SAMPLE ID: 201682010 CLIENT ID: AK1818

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 25-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	30	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 08:38	Matrix:	WATER
Lab Sample ID:	201706001	Date Received:	01/26/2008 14:15		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK1918	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	1
Run Date:	02/07/2008 19:33	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/07/2008 19:33				
Data File:	1w413.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene	J	0.329 J	ug/L	0.250	1.00
100-41-4	Ethylbenzene	J	0.266 J	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	BJ 1.0	~~0.840~~ U F01,	ug/L F06	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 08:38	Matrix:	WATER
Lab Sample ID:	201706001	Date Received:	01/26/2008 14:15		
		Client:	SA1C085	Project:	SA1C08507
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK1918	Inst:	MSD8.I	Dilution:	1
Batch ID:	722376	Analyst:	NAG1	Inj. Vol:	.5 uL
Run Date:	01/30/2008 19:30	Aliquot:	1010 mL	Final Volume:	1 mL
Prep Date:	01/30/2008 14:23	Column:	J&W DB-5MS	Level:	LOW
Data File:	s8a3022.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	0.990 U	ug/L	0.307	0.990
129-00-0	Pyrene	U	0.990	ug/L	0.297	0.990
91-20-3	Naphthalene	U	0.990	ug/L	0.297	0.990
91-57-6	2-Methylnaphthalene	U	0.990	ug/L	0.297	0.990
91-58-7	2-Chloronaphthalene	U	0.990	ug/L	0.347	0.990
208-96-8	Acenaphthylene	U	0.990	ug/L	0.198	0.990
86-73-7	Fluorene	U	0.990	ug/L	0.198	0.990
85-01-8	Phenanthrene	U	0.990	ug/L	0.198	0.990
120-12-7	Anthracene	U	0.990	ug/L	0.198	0.990
206-44-0	Fluoranthene	U	0.990	ug/L	0.198	0.990
56-55-3	Benzo(a)anthracene	U	0.990	ug/L	0.198	0.990
218-01-9	Chrysene	U	0.990	ug/L	0.198	0.990
205-99-2	Benzo(b)fluoranthene	U	0.990	ug/L	0.198	0.990
207-08-9	Benzo(k)fluoranthene	U	0.990	ug/L	0.198	0.990
50-32-8	Benzo(a)pyrene	U	0.990	ug/L	0.198	0.990
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.990 U5 C05	ug/L	0.198	0.990
53-70-3	Dibenzo(a,h)anthracene	U	0.990	ug/L	0.198	0.990
191-24-2	Benzo(ghi)perylene	U	0.990	ug/L	0.198	0.990

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705-1 METHOD TYPE: SW846

SAMPLE ID: 201706001 CLIENT ID: AK1918

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 26-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	0.180	ug/L	B		MS	0.05	1	ICPMS5	080205-1

U F06

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 15:15	Matrix:	GROUND WATER
Lab Sample ID:	201537008	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2018	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723384	Inst:	VOA2.1	Dilution:	20
Run Date:	02/05/2008 12:05	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/05/2008 12:05	Column:	DB-624	Level:	LOW
Data File:	2w212.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		448	ug/L	6.00	20.0
108-88-3	Toluene		1370	ug/L	5.00	20.0
100-41-4	Ethylbenzene		653	ug/L	5.00	20.0
1330-20-7	Xylenes (total)		3280	ug/L	5.00	20.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 15:15	Matrix:	GROUND WATER
Lab Sample ID:	201537008	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2018	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721970	Inst:	MSD5.I	Dilution:	4
Run Date:	01/29/2008 14:19	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 17:06	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s5a2917.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	4.00 U	ug/L	1.24	4.00
129-00-0	Pyrene	U	4.00 U	ug/L	1.20	4.00
91-20-3	Naphthalene	J	3.37 J	ug/L	1.20	4.00
91-57-6	2-Methylnaphthalene	U	4.00 U	ug/L	1.20	4.00
91-58-7	2-Chloronaphthalene	U	4.00	ug/L	1.40	4.00
208-96-8	Acenaphthylene	U	4.00	ug/L	0.800	4.00
86-73-7	Fluorene	U	4.00	ug/L	0.800	4.00
85-01-8	Phenanthrene	U	4.00	ug/L	0.800	4.00
120-12-7	Anthracene	U	4.00	ug/L	0.800	4.00
206-44-0	Fluoranthene	U	4.00	ug/L	0.800	4.00
56-55-3	Benzo(a)anthracene	U	4.00	ug/L	0.800	4.00
218-01-9	Chrysene	U	4.00	ug/L	0.800	4.00
205-99-2	Benzo(b)fluoranthene	U	4.00	ug/L	0.800	4.00
207-08-9	Benzo(k)fluoranthene	U	4.00	ug/L	0.800	4.00
50-32-8	Benzo(a)pyrene	U	4.00	ug/L	0.800	4.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	4.00	ug/L	0.800	4.00
53-70-3	Dibenzo(a,h)anthracene	U	4.00	ug/L	0.800	4.00
191-24-2	Benzo(ghi)perylene	U	4.00	ug/L	0.800	4.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537 METHOD TYPE: SW846

SAMPLE ID: 201537008 CLIENT ID: AK2008

CONTRACT: SAJC08507

MATRIX:G DATE RECEIVED 24-JAN-08 LEVEL: Low % SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DI	Instrument ID	Analytical Run
7439-92-1	Lead	204	ug/L			MS	0.25	5	ICPMSe	080201-2

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DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 14:18	Matrix:	GROUND WATER
Lab Sample ID:	201537007	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2118	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723384	Inst:	VOA2.I	Dilution:	50
Run Date:	02/04/2008 22:39	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/04/2008 22:39				
Data File:	2w132.d	Column:	DB-624	Level:	LOW

USQ

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		599 =	ug/L	15.0	50.0
108-88-3	Toluene	D E 5460	~~5220~~ =	ug/L	12.5	50.0
100-41-4	Ethylbenzene		786 =	ug/L	12.5	50.0
1330-20-7	Xylenes (total)		3570 =	ug/L	12.5	50.0

DATA VALIDATION

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 14:18	Matrix:	GROUND WATER
Lab Sample ID:	201537007	Date Received:	01/24/2008 15:05		
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK2118	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721970	Inst:	MSD5.I	Dilution:	4
Run Date:	01/29/2008 13:58	Analyst:	BJB1	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 17:06	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s5a2916.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	4.00 U	ug/L	1.24	4.00
129-00-0	Pyrene	U	4.00 U	ug/L	1.20	4.00
91-20-3	Naphthalene		5.86 =	ug/L	1.20	4.00
91-57-6	2-Methylnaphthalene	J	1.22 J	ug/L	1.20	4.00
91-58-7	2-Chloronaphthalene	U	4.00 U	ug/L	1.40	4.00
208-96-8	Acenaphthylene	U	4.00	ug/L	0.800	4.00
86-73-7	Fluorene	U	4.00	ug/L	0.800	4.00
85-01-8	Phenanthrene	U	4.00	ug/L	0.800	4.00
120-12-7	Anthracene	U	4.00	ug/L	0.800	4.00
206-44-0	Fluoranthene	U	4.00	ug/L	0.800	4.00
56-55-3	Benzo(a)anthracene	U	4.00	ug/L	0.800	4.00
218-01-9	Chrysene	U	4.00	ug/L	0.800	4.00
205-99-2	Benzo(b)fluoranthene	U	4.00	ug/L	0.800	4.00
207-08-9	Benzo(k)fluoranthene	U	4.00	ug/L	0.800	4.00
50-32-8	Benzo(a)pyrene	U	4.00	ug/L	0.800	4.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	4.00	ug/L	0.800	4.00
53-70-3	Dibenzo(a,h)anthracene	U	4.00	ug/L	0.800	4.00
191-24-2	Benzo(ghi)perylene	U	4.00	ug/L	0.800	4.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537 METHOD TYPE: SW846

SAMPLE ID: 201537007 CLIENT ID: AK2118

CONTRACT: SAJC08507

MATRIX:G DATE RECEIVED 24-JAN-08 LEVEL: Low % SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	57.2	ug/L			MS	0.05	1	ICPMS6	080131-7

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 09:35	Matrix:	WATER
Lab Sample ID:	201706002	Date Received:	01/26/2008 14:15		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2218	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	5
Run Date:	02/07/2008 20:57	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/07/2008 20:57				
Data File:	1w416.d	Column:	RTX-Volatiles	Level:	LOW

USR

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		497 =	ug/L	1.50	5.00
108-88-3	Toluene		250 =	ug/L	1.25	5.00
100-41-4	Ethylbenzene	D E 548	~~580~~ =	ug/L	1.25	5.00
1330-20-7	Xylenes (total)	B	2160 =	Fo1, ug/L Fo8	1.25	5.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 09:35	Matrix:	WATER
Lab Sample ID:	201706002	Date Received:	01/26/2008 14:15		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2218	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722376	Inst:	MSD8.I	Dilution:	4
Run Date:	01/30/2008 16:13	Analyst:	NAG1	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 14:23	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s8a3013.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	4.00 U	ug/L	1.24	4.00
129-00-0	Pyrene	U	4.00 U	ug/L	1.20	4.00
91-20-3	Naphthalene		7.01 =	ug/L	1.20	4.00
91-57-6	2-Methylnaphthalene	J	1.48 J	ug/L	1.20	4.00
91-58-7	2-Chloronaphthalene	U	4.00 U	ug/L	1.40	4.00
208-96-8	Acenaphthylene	U	4.00	ug/L	0.800	4.00
86-73-7	Fluorene	U	4.00	ug/L	0.800	4.00
85-01-8	Phenanthrene	U	4.00	ug/L	0.800	4.00
120-12-7	Anthracene	U	4.00	ug/L	0.800	4.00
206-44-0	Fluoranthene	U	4.00	ug/L	0.800	4.00
56-55-3	Benzo(a)anthracene	U	4.00	ug/L	0.800	4.00
218-01-9	Chrysene	U	4.00	ug/L	0.800	4.00
205-99-2	Benzo(b)fluoranthene	U	4.00	ug/L	0.800	4.00
207-08-9	Benzo(k)fluoranthene	U	4.00	ug/L	0.800	4.00
50-32-8	Benzo(a)pyrene	U	4.00	ug/L	0.800	4.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	4.00 UJ COS	ug/L	0.800	4.00
53-70-3	Dibenzo(a,h)anthracene	U	4.00	ug/L	0.800	4.00
191-24-2	Benzo(ghi)perylene	U	4.00	ug/L	0.800	4.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705-1 METHOD TYPE: SW846

SAMPLE ID: 201706002 CLIENT ID: AK2218

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 26-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	9.4	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 11:01	Matrix:	WATER
Lab Sample ID:	201706003	Date Received:	01/26/2008 14:15		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2318	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	10
Run Date:	02/08/2008 12:34	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/08/2008 12:34				
Data File:	1w510.d	Column:	RTX-Volatiles	Level:	LOW

USL

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		93.4 =	ug/L	3.00	10.0
108-88-3	Toluene		21.4 =	ug/L	2.50	10.0
100-41-4	Ethylbenzene		871 =	ug/L	2.50	10.0
1330-20-7	Xylenes (total)	D ~~X~~ B	2550 ~~2480~~ =	Fol, ug/L FOB	2.50	10.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 11:01	Matrix:	WATER
Lab Sample ID:	201706003	Date Received:	01/26/2008 14:15		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2318	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722376	Inst:	MSD8.I	Dilution:	4
Run Date:	01/30/2008 16:34	Analyst:	NAG1	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 14:23	Aliquot:	1005 mL	Final Volume:	1 mL
Data File:	s8a3014.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	3.98 U	ug/L	1.23	3.98
129-00-0	Pyrene	U	3.98 U	ug/L	1.19	3.98
91-20-3	Naphthalene		14.2 =	ug/L	1.19	3.98
91-57-6	2-Methylnaphthalene	J	3.11 J	ug/L	1.19	3.98
91-58-7	2-Chloronaphthalene	U	3.98 U	ug/L	1.39	3.98
208-96-8	Acenaphthylene	U	3.98	ug/L	0.796	3.98
86-73-7	Fluorene	U	3.98	ug/L	0.796	3.98
85-01-8	Phenanthrene	U	3.98	ug/L	0.796	3.98
120-12-7	Anthracene	U	3.98	ug/L	0.796	3.98
206-44-0	Fluoranthene	U	3.98	ug/L	0.796	3.98
56-55-3	Benzo(a)anthracene	U	3.98	ug/L	0.796	3.98
218-01-9	Chrysene	U	3.98	ug/L	0.796	3.98
205-99-2	Benzo(b)fluoranthene	U	3.98	ug/L	0.796	3.98
207-08-9	Benzo(k)fluoranthene	U	3.98	ug/L	0.796	3.98
50-32-8	Benzo(a)pyrene	U	3.98	ug/L	0.796	3.98
193-39-5	Indeno(1,2,3-cd)pyrene	U	3.98 UJ	ug/L	0.796	3.98
53-70-3	Dibenzo(a,h)anthracene	U	3.98	ug/L	0.796	3.98
191-24-2	Benzo(ghi)perylene	U	3.98	ug/L	0.796	3.98

COS

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705-1 METHOD TYPE: SW846

SAMPLE ID: 201706003 CLIENT ID: AK2318

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 26-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	69.7	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 12:04	Matrix:	WATER
Lab Sample ID:	201706004	Date Received:	01/26/2008 14:15		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2418	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	1
Run Date:	02/07/2008 20:01	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/07/2008 20:01				
Data File:	1w414.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	J	0.399 J	ug/L	0.300	1.00
108-88-3	Toluene		6.55 =	ug/L	0.250	1.00
100-41-4	Ethylbenzene		50.3 =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	B	143 = F01,	ug/L F08	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 12:04	Matrix:	WATER
Lab Sample ID:	201706004	Date Received:	01/26/2008 14:15		
		Client:	SAIC08S	Project:	SAIC08507
Client ID:	AK2418	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722376	Inst:	MSD8.I	Dilution:	4
Run Date:	01/30/2008 16:56	Analyst:	NAG1	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 14:23	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s8a3015.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	4.00 U	ug/L	1.24	4.00
129-00-0	Pyrene	U	4.00	ug/L	1.20	4.00
91-20-3	Naphthalene	U	4.00	ug/L	1.20	4.00
91-57-6	2-Methylnaphthalene	U	4.00	ug/L	1.20	4.00
91-58-7	2-Chloronaphthalene	U	4.00	ug/L	1.40	4.00
208-96-8	Acenaphthylene	U	4.00	ug/L	0.800	4.00
86-73-7	Fluorene	U	4.00	ug/L	0.800	4.00
85-01-8	Phenanthrene	U	4.00	ug/L	0.800	4.00
120-12-7	Anthracene	U	4.00	ug/L	0.800	4.00
206-44-0	Fluoranthene	U	4.00	ug/L	0.800	4.00
56-55-3	Benzo(a)anthracene	U	4.00	ug/L	0.800	4.00
218-01-9	Chrysene	U	4.00	ug/L	0.800	4.00
205-99-2	Benzo(b)fluoranthene	U	4.00	ug/L	0.800	4.00
207-08-9	Benzo(k)fluoranthene	U	4.00	ug/L	0.800	4.00
50-32-8	Benzo(a)pyrene	U	4.00	ug/L	0.800	4.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	4.00 U5 C05	ug/L	0.800	4.00
53-70-3	Dibenzo(a,h)anthracene	U	4.00	ug/L	0.800	4.00
191-24-2	Benzo(ghi)perylene	U	4.00	ug/L	0.800	4.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705-1 METHOD TYPE: SW846

SAMPLE ID: 201706004 CLIENT ID: AK2418

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 26-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	6	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 13:39	Matrix:	WATER
Lab Sample ID:	201706005	Date Received:	01/26/2008 14:15		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2518	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	1
Run Date:	02/07/2008 20:29	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/07/2008 20:29				
Data File:	1w415.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene	U	1.00 U	ug/L	0.250	1.00
100-41-4	Ethylbenzene	J	0.252 J	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	BJ	1.0 ~~0.762~~ U	F01, ug/L ~~F08~~	0.250	1.00

F06 W
03/06/08

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 13:39	Matrix:	WATER
Lab Sample ID:	201706005	Date Received:	01/26/2008 14:15		
		Client:	SAIC085	Project:	SAIC08507
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK2518	Inst:	MSD8.I	Dilution:	1
Batch ID:	722376	Analyst:	NAG1	Inj. Vol:	.5 uL
Run Date:	01/30/2008 18:02	Aliquot:	1000 mL	Final Volume:	1 mL
Prep Date:	01/30/2008 14:23	Column:	J&W DB-5MS	Level:	LOW
Data File:	s8a3018.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 u	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	U	1.00	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00 UJ	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705-1 METHOD TYPE: SW846

SAMPLE ID: 201706005 CLIENT ID: AK2518

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 26-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	0.370	ug/L	B		MS	0.05	1	ICPMS5	080205-1

J

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 14:45	Matrix:	WATER
Lab Sample ID:	201706006	Date Received:	01/26/2008 14:15		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2618	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	10
Run Date:	02/07/2008 21:59	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/07/2008 21:59				
Data File:	1w417.d	Column:	RTX-Volatiles	Level:	LOW

USP

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		382 =	ug/L	3.00	10.0
108-88-3	Toluene	D ~~E~~ 3280	~~2680~~ =	ug/L	2.50	10.0
100-41-4	Ethylbenzene		620 =	ug/L	2.50	10.0
1330-20-7	Xylenes (total)	D B 2580	~~2430~~ = F01,	ug/L F08	2.50	10.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201705-1	Date Collected:	01/25/2008 14:45	Matrix:	WATER
Lab Sample ID:	201706006	Date Received:	01/26/2008 14:15		
		Client:	SAIC085	Project:	SAIC08507
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK2618	Inst:	MSD8.I	Dilution:	4
Batch ID:	722376	Analyst:	NAG1	Inj. Vol:	.5 uL
Run Date:	01/30/2008 18:24	Aliquot:	1010 mL	Final Volume:	1 mL
Prep Date:	01/30/2008 14:23	Column:	J&W DB-5MS	Level:	LOW
Data File:	s8a3019.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	3.96 U	ug/L	1.23	3.96
129-00-0	Pyrene	U	3.96 U	ug/L	1.19	3.96
91-20-3	Naphthalene	J	3.41 J	ug/L	1.19	3.96
91-57-6	2-Methylnaphthalene	U	3.96 U	ug/L	1.19	3.96
91-58-7	2-Chloronaphthalene	U	3.96	ug/L	1.39	3.96
208-96-8	Acenaphthylene	U	3.96	ug/L	0.792	3.96
86-73-7	Fluorene	U	3.96	ug/L	0.792	3.96
85-01-8	Phenanthrene	U	3.96	ug/L	0.792	3.96
120-12-7	Anthracene	U	3.96	ug/L	0.792	3.96
206-44-0	Fluoranthene	U	3.96	ug/L	0.792	3.96
56-55-3	Benzo(a)anthracene	U	3.96	ug/L	0.792	3.96
218-01-9	Chrysene	U	3.96	ug/L	0.792	3.96
205-99-2	Benzo(b)fluoranthene	U	3.96	ug/L	0.792	3.96
207-08-9	Benzo(k)fluoranthene	U	3.96	ug/L	0.792	3.96
50-32-8	Benzo(a)pyrene	U	3.96	ug/L	0.792	3.96
193-39-5	Indeno(1,2,3-cd)pyrene	U	3.96 UJ C05	ug/L	0.792	3.96
53-70-3	Dibenzo(a,h)anthracene	U	3.96	ug/L	0.792	3.96
191-24-2	Benzo(ghi)perylene	U	3.96	ug/L	0.792	3.96

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201705-1 METHOD TYPE: SW846

SAMPLE ID: 201706006 CLIENT ID: AK2618

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 26-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	25.5	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 08:48	Matrix:	WATER
Lab Sample ID:	201710001	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2718	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	100
Run Date:	02/09/2008 16:10	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/09/2008 16:10				
Data File:	1w615.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		271	ug/L	30.0	100
108-88-3	Toluene		6570	ug/L	25.0	100
100-41-4	Ethylbenzene		680	ug/L	25.0	100
1330-20-7	Xylenes (total)		2720	ug/L	25.0	100

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 08:48	Matrix:	WATER
Lab Sample ID:	201710001	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK2718	Inst:	MSD7.1	Dilution:	1
Batch ID:	722660	Analyst:	RMB	Inj. Vol:	.5 uL
Run Date:	01/31/2008 13:02	Aliquot:	1000 mL	Final Volume:	1 mL
Prep Date:	01/30/2008 17:14	Column:	J & W DB-5MS	Level:	LOW
Data File:	s7a3109.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene		1.15 =	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709-1 METHOD TYPE: SW846

SAMPLE ID: 201710001 CLIENT ID: AK2718

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 27-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	10.3	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 08:48	Matrix:	WATER
Lab Sample ID:	201710002	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2714 DUPLICATE	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	100
Run Date:	02/09/2008 16:38	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/09/2008 16:38				
Data File:	1w616.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		208	ug/L	30.0	100
108-88-3	Toluene		5210	ug/L	25.0	100
100-41-4	Ethylbenzene		543	ug/L	25.0	100
1330-20-7	Xylenes (total)		2160	ug/L	25.0	100

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 08:48	Matrix:	WATER
Lab Sample ID:	201710002	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2714 DUPLICATE	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722660	Inst:	MSD7.I	Dilution:	1
Run Date:	01/31/2008 13:23	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 17:14	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7a3110.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene		1.20	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709-1 METHOD TYPE: SW846

SAMPLE ID: 201710002 CLIENT ID: AK2714
DUPLICATE

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 27-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	11.2	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 09:56	Matrix:	WATER
Lab Sample ID:	201710003	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2818	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	20
Run Date:	02/09/2008 12:44	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/09/2008 12:44				
Data File:	1w609.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		1360	ug/L	6.00	20.0
108-88-3	Toluene		555	ug/L	5.00	20.0
100-41-4	Ethylbenzene		715	ug/L	5.00	20.0
1330-20-7	Xylenes (total)		2650	ug/L	5.00	20.0

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 09:56	Matrix:	WATER
Lab Sample ID:	201710003	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2818	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722660	Inst:	MSD7.I	Dilution:	1
Run Date:	01/31/2008 13:44	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 17:14	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7a3111.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		10.3 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene		2.07 =	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION
COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709-1 METHOD TYPE: SW846

SAMPLE ID: 201710003 CLIENT ID: AK2818

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 27-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	25.8	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 10:53	Matrix:	WATER
Lab Sample ID:	201710004	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2918	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	20
Run Date:	02/09/2008 13:12	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/09/2008 13:12				
Data File:	1w610.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		709	ug/L	6.00	20.0
108-88-3	Toluene		292	ug/L	5.00	20.0
100-41-4	Ethylbenzene		919	ug/L	5.00	20.0
1330-20-7	Xylenes (total)		3490	ug/L	5.00	20.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 10:53	Matrix:	WATER
Lab Sample ID:	201710004	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK2918	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722660	Inst:	MSD7.1	Dilution:	1
Run Date:	01/31/2008 14:05	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 17:14	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7a3112.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		7.36 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene		1.54 =	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709-1 METHOD TYPE: SW846

SAMPLE ID: 201710004 CLIENT ID: AK2918

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 27-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	29.4	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 12:06	Matrix:	WATER
Lab Sample ID:	201710005	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3018	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	5
Run Date:	02/09/2008 13:40	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/09/2008 13:40				
Data File:	1w611.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		10.4 =	ug/L	1.50	5.00
108-88-3	Toluene	J	2.04 J	ug/L	1.25	5.00
100-41-4	Ethylbenzene		70.3 =	ug/L	1.25	5.00
1330-20-7	Xylenes (total)		330 =	ug/L	1.25	5.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 12:06	Matrix:	WATER
Lab Sample ID:	201710005	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3018	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722660	Inst:	MSD7.1	Dilution:	1
Run Date:	01/31/2008 14:26	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 17:14	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7a3113.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		1.14 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	J	0.462 J	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709-1 METHOD TYPE: SW846

SAMPLE ID: 201710005 CLIENT ID: AK3018

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 27-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	14.1	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 13:30	Matrix:	WATER
Lab Sample ID:	201710006	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3118	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	1
Run Date:	02/09/2008 10:22	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/09/2008 10:22	Column:	RTX-Volatiles	Level:	LOW
Data File:	1w604.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene	J	0.270 J	ug/L	0.250	1.00
100-41-4	Ethylbenzene	J	0.579 J	ug/L	0.250	1.00
1330-20-7	Xylenes (total)		1.74 =	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 13:30	Matrix:	WATER
Lab Sample ID:	201710006	Date Received:	01/27/2008 14:30		
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK3118	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	723302	Inst:	MSD7.1	Dilution:	1
Run Date:	02/04/2008 12:58	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	02/01/2008 17:25	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7b0406.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 u	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	U	1.00	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709-1 METHOD TYPE: SW846

SAMPLE ID: 201710006 CLIENT ID: AK3118

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 27-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	13	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 08:45	Matrix:	WATER
Lab Sample ID:	201745001	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3218	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724925	Inst:	VOA9.I	Dilution:	1
Run Date:	02/08/2008 03:50	Analyst:	RXYI	Purge Vol:	5 mL
Prep Date:	02/08/2008 03:50				
Data File:	9w435.d	Column:	RTX-Volatiles	Level:	LOW

USP

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		37.0 =	ug/L	0.300	1.00
108-88-3	Toluene	D	E 2300 ~~1280~~ =	ug/L	0.250	1.00
100-41-4	Ethylbenzene	D	E 472 ~~470~~ =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	D	1810 ~~1200~~ =	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 08:45	Matrix:	WATER
Lab Sample ID:	201745001	Date Received:	01/28/2008 14:50		
		Client:	SAIC08S	Project:	SAIC08507
Client ID:	AK3218	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	723302	Inst:	MSD7.I	Dilution:	1
Run Date:	02/04/2008 13:20	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	02/01/2008 17:25	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7b0407.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		2.30 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	J	0.515 J	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744-1 METHOD TYPE: SW846

SAMPLE ID: 201745001 CLIENT ID: AK3218

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 28-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	7.9	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 08:45	Matrix:	WATER
Lab Sample ID:	201745002	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3214 DUPLICATE	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724925	Inst:	VOA9.I	Dilution:	1
Run Date:	02/08/2008 04:18	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	02/08/2008 04:18				
Data File:	9w436.d	Column:	RTX-Volatiles	Level:	LOW USE

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		32.5 =	ug/L	0.300	1.00
108-88-3	Toluene	D	~~E~~ 2240 ~~1180~~ =	ug/L	0.250	1.00
100-41-4	Ethylbenzene	D	~~E~~ 439 ~~419~~ =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	D	1620 ~~1190~~ =	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 08:45	Matrix:	WATER
Lab Sample ID:	201745002	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3214 DUPLICATE	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	723302	Inst:	MSD7.1	Dilution:	1
Run Date:	02/04/2008 13:41	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	02/01/2008 17:25	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7b0408.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		2.32 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	J	0.518 J	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744-1 METHOD TYPE: SW846

SAMPLE ID: 201745002 CLIENT ID: AK3214
DUPLICATE

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 28-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	6.4	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 09:56	Matrix:	WATER
Lab Sample ID:	201745003	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3318	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724925	Inst:	VOA9.I	Dilution:	25
Run Date:	02/09/2008 05:41	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	02/09/2008 05:41				
Data File:	9w538.d	Column:	RTX-Volatiles	Level:	LOW

USE

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		153 =	ug/L	7.50	25.0
108-88-3	Toluene	D	~~3700~~ 3760 =	ug/L	6.25	25.0
100-41-4	Ethylbenzene		424 =	ug/L	6.25	25.0
1330-20-7	Xylenes (total)		1790 =	ug/L	6.25	25.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 09:56	Matrix:	WATER
Lab Sample ID:	201745003	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3318	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722792	Inst:	MSD2.1	Dilution:	1
Run Date:	01/31/2008 22:42	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 11:53	Aliquot:	970 mL	Final Volume:	1 mL
Data File:	s2a3109.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.03 U	ug/L	0.320	1.03
129-00-0	Pyrene	U	1.03 U	ug/L	0.309	1.03
91-20-3	Naphthalene		1.81 =	ug/L	0.309	1.03
91-57-6	2-Methylnaphthalene	J	0.483 J	ug/L	0.309	1.03
91-58-7	2-Chloronaphthalene	U	1.03 U	ug/L	0.361	1.03
208-96-8	Acenaphthylene	U	1.03	ug/L	0.206	1.03
86-73-7	Fluorene	U	1.03	ug/L	0.206	1.03
85-01-8	Phenanthrene	U	1.03	ug/L	0.206	1.03
120-12-7	Anthracene	U	1.03	ug/L	0.206	1.03
206-44-0	Fluoranthene	U	1.03	ug/L	0.206	1.03
56-55-3	Benzo(a)anthracene	U	1.03	ug/L	0.206	1.03
218-01-9	Chrysene	U	1.03	ug/L	0.206	1.03
205-99-2	Benzo(b)fluoranthene	U	1.03	ug/L	0.206	1.03
207-08-9	Benzo(k)fluoranthene	U	1.03	ug/L	0.206	1.03
50-32-8	Benzo(a)pyrene	U	1.03	ug/L	0.206	1.03
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.03	ug/L	0.206	1.03
53-70-3	Dibenzo(a,h)anthracene	U	1.03	ug/L	0.206	1.03
191-24-2	Benzo(ghi)perylene	U	1.03	ug/L	0.206	1.03

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744-1 METHOD TYPE: SW846

SAMPLE ID: 201745003 CLIENT ID: AK3318

CONTRACT: SAJC08507

MATRIX: W DATE RECEIVED 28-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	7	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 10:56	Matrix:	WATER
Lab Sample ID:	201745004	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3418	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724925	Inst:	VOA9.I	Dilution:	25
Run Date:	02/09/2008 06:09	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	02/09/2008 06:09				
Data File:	9w539.d	Column:	RTX-Volatiles	Level:	LOW

USB

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		434 =	ug/L	7.50	25.0
108-88-3	Toluene	D	~~3980~~ 4030 =	ug/L	6.25	25.0
100-41-4	Ethylbenzene		673 =	ug/L	6.25	25.0
1330-20-7	Xylenes (total)		1380 =	ug/L	6.25	25.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 10:56	Matrix:	WATER
Lab Sample ID:	201745004	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3418	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722792	Inst:	MSD2.I	Dilution:	1
Run Date:	01/31/2008 23:03	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 11:53	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s2a3110.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		3.60 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	J	0.692 J	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744-1 METHOD TYPE: SW846

SAMPLE ID: 201745004 CLIENT ID: AK3418

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 28-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	18.8	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 13:20	Matrix:	WATER
Lab Sample ID:	201745005	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3518	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724925	Inst:	VOA9.I	Dilution:	10
Run Date:	02/09/2008 06:37	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	02/09/2008 06:37				
Data File:	9w540.d	Column:	RTX-Volatiles	Level:	LOW

USQ

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		157 =	ug/L	3.00	10.0
108-88-3	Toluene		276 =	ug/L	2.50	10.0
100-41-4	Ethylbenzene	D	~~1060~~ 952 =	ug/L	2.50	10.0
1330-20-7	Xylenes (total)		4490 =	ug/L	2.50	10.0

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 13:20	Matrix:	WATER
Lab Sample ID:	201745005	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3518	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722792	Inst:	MSD2.I	Dilution:	1
Run Date:	01/31/2008 23:24	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 11:53	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s2a3111.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	J	0.780 J	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744-1 METHOD TYPE: SW846

SAMPLE ID: 201745005 CLIENT ID: AK3518

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 28-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	27.2	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 15:33	Matrix:	WATER
Lab Sample ID:	201710008	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3618DL	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724348	Inst:	VOA1.I	Dilution:	5
Run Date:	02/09/2008 14:09	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/09/2008 14:09				
Data File:	1w612.d	Column:	RTX-Volatiles	Level:	LOW

USR

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		9.47 =	ug/L	1.50	5.00
108-88-3	Toluene		8.85 =	ug/L	1.25	5.00
100-41-4	Ethylbenzene	D	447 ~~424~~ =	ug/L	1.25	5.00
1330-20-7	Xylenes (total)	B D	1720 ~~1570~~ =	Fol ug/L FOB	1.25	5.00

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 15:33	Matrix:	WATER
Lab Sample ID:	201710008	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3618	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722660	Inst:	MSD7.I	Dilution:	1
Run Date:	01/31/2008 15:29	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 17:14	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7a3116.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		3.70 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene		1.10 =	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709-1 METHOD TYPE: SW846

SAMPLE ID: 201710008 CLIENT ID: AK3618

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 27-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	36.4	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 14:25	Matrix:	WATER
Lab Sample ID:	201710007	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
		Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Client ID:	AK3718	Inst:	VOA1.I	Dilution:	1
Batch ID:	724348	Analyst:	ACJ	Purge Vol:	5 mL
Run Date:	02/09/2008 10:51				
Prep Date:	02/09/2008 10:51	Column:	RTX-Volatiles	Level:	LOW
Data File:	1w605.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene	U	1.00 U	ug/L	0.250	1.00
100-41-4	Ethylbenzene	U	1.00 U	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	J	0.301 J	ug/L	0.250	1.00

DATA VALIDATION
COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201709-1	Date Collected:	01/26/2008 14:25	Matrix:	WATER
Lab Sample ID:	201710007	Date Received:	01/27/2008 14:30		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK3718	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722660	Inst:	MSD7.I	Dilution:	1
Run Date:	01/31/2008 15:08	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 17:14	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7a3115.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	U	1.00	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201709-1 METHOD TYPE: SW846

SAMPLE ID: 201710007 CLIENT ID: AK3718

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 27-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	7.6	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/16/2008 12:51	Matrix:	WATER
Lab Sample ID:	201112014	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK3818	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	720957	Inst:	VOA2.I	Dilution:	1
Run Date:	01/28/2008 16:56	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	01/28/2008 16:56				
Data File:	2v123.d	Column:	DB-624	Level:	LOW

U50

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		1.28 =	ug/L	0.300	1.00
108-88-3	Toluene	D ~~E~~ 385	335 =	ug/L	0.250	1.00
100-41-4	Ethylbenzene	D ~~E~~ 338	281 =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	D 1220	~~1080~~ =	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/16/2008 12:51	Matrix:	WATER
Lab Sample ID:	201112014	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK3818	Inst:	MSD7.I	Dilution:	1
Batch ID:	719340	Analyst:	RMB	Inj. Vol:	.5 uL
Run Date:	01/21/2008 16:46	Aliquot:	1000 mL	Final Volume:	1 mL
Prep Date:	01/18/2008 17:28	Column:	J & W DB-5MS	Level:	LOW
Data File:	s7a2116.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene		1.98 =	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	J	0.591 J	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00 U	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201111-1 METHOD TYPE: SW846

SAMPLE ID: 201112014 CLIENT ID: AK3818

CONTRACT: SAJC007202

MATRIX: W DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	6	ug/L			MS	0.03	1	ICPMS6	080123

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/16/2008 13:43	Matrix:	WATER
Lab Sample ID:	201112015	Date Received:	01/17/2008 09:30		
		Client:	SAIC072	Project:	SAIC007202
Client ID:	AK3918	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	720957	Inst:	VOA2.I	Dilution:	1
Run Date:	01/28/2008 17:24	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	01/28/2008 17:24				
Data File:	2v124.d	Column:	DB-624	Level:	LOW

U58

CAS No.	Parmname	Qualifier	Result		Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		2.04	=	ug/L	0.300	1.00
108-88-3	Toluene	D E555	499	=	ug/L	0.250	1.00
100-41-4	Ethylbenzene	D E120	118	=	ug/L	0.250	1.00
1330-20-7	Xylenes (total)		475	=	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201111-1	Date Collected:	01/16/2008 13:43	Matrix:	WATER
Lab Sample ID:	201112015	Date Received:	01/17/2008 09:30		
		Client:	SAJC072	Project:	SAJC007202
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK3918	Inst:	MSD7.I	Dilution:	1
Batch ID:	719340	Analyst:	RMB	Inj. Vol:	5 uL
Run Date:	01/21/2008 17:08	Aliquot:	1000 mL	Final Volume:	1 mL
Prep Date:	01/18/2008 17:28	Column:	J & W DB-5MS	Level:	LOW
Data File:	s7a2117.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00 U	ug/L	0.300	1.00
91-20-3	Naphthalene	J	0.441 J	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	U	1.00 U	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.250	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201111-1 METHOD TYPE: SW846

SAMPLE ID: 201112015 CLIENT ID: AK3918

CONTRACT: SAIC007202

MATRIX: W DATE RECEIVED 17-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	11.2	ug/L			MS	0.03	1	ICPMS6	080123

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/23/2008 16:28	Matrix:	GROUND WATER
Lab Sample ID:	201537009	Date Received:	01/24/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4018	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	723384	Inst:	VOA2.I	Dilution:	1
Run Date:	02/04/2008 17:52	Analyst:	CDS1	Purge Vol:	5 mL
Prep Date:	02/04/2008 17:52				
Data File:	2w122.d	Column:	DB-624	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		1.97	ug/L	0.300	1.00
108-88-3	Toluene		1.62	ug/L	0.250	1.00
100-41-4	Ethylbenzene		12.9	ug/L	0.250	1.00
1330-20-7	Xylenes (total)		67.3	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201537	Date Collected:	01/25/2008 16:23	Matrix:	GROUND WATER
Lab Sample ID:	201537009	Date Received:	01/24/2008 15:08		
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK4018	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	721970	Inst:	MSD5.1	Dilution:	4
Run Date:	01/29/2008 14:41	Analyst:	BJB3	Inj. Vol:	.5 uL
Prep Date:	01/28/2008 17:06	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s5a2918.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	<0.0 U	ug/L	1.20	<.00
129-00-0	Pyrene	U	<0.0	ug/L	1.20	<.00
91-20-3	Naphthalene	U	<0.0	ug/L	1.20	<.00
91-57-6	2-Methylnaphthalene	U	<0.0	ug/L	1.20	<.00
91-58-7	2-Chloronaphthalene	U	<0.0	ug/L	1.20	<.00
208-96-8	Acenaphthylene	U	<.0	ug/L	0.80	<.00
86-73-7	Fluorene	U	<.0	ug/L	0.80	<.00
85-01-8	Phenanthrene	U	<.0	ug/L	0.80	<.00
120-12-7	Anthracene	U	<.0	ug/L	0.80	<.00
206-44-0	Fluoranthene	U	<.0	ug/L	0.80	<.00
56-55-3	Benzo(a)anthracene	U	<.0	ug/L	0.80	<.00
218-01-9	Chrysene	U	<.0	ug/L	0.80	<.00
205-99-2	Benzo(b)fluoranthene	U	<.0	ug/L	0.80	<.00
207-08-9	Benzo(k)fluoranthene	U	<.0	ug/L	0.80	<.00
50-32-8	Benzo(a)pyrene	U	<.0	ug/L	0.80	<.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	<.0	ug/L	0.80	<.00
53-70-3	Dibenzo(a,h)anthracene	U	<.0	ug/L	0.80	<.00
191-24-2	Benzo(ghi)perylene	U	<.0	ug/L	0.80	<.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201537 METHOD TYPE: SW846

SAMPLE ID: 201537009 CLIENT ID: AK4018

CONTRACT: SAIC08507

MATRIX: G DATE RECEIVED: 24-JAN-0[illegible] LEVEL: Low % SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	10.2	ug/l			M	0.05		ICPMS[illegible]	08[illegible]

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Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 14:11	Matrix:	WATER
Lab Sample ID:	201745006	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4118	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724925	Inst:	VOA9.I	Dilution:	5
Run Date:	02/09/2008 07:33	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	02/09/2008 07:33				
Data File:	9w542.d	Column:	RTX-Volatiles	Level:	LOW

USR

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene		12.4	ug/L	1.50	5.00
108-88-3	Toluene		119	ug/L	1.25	5.00
100-41-4	Ethylbenzene		302	ug/L	1.25	5.00
1330-20-7	Xylenes (total)	D	~~1150~~ 1180	ug/L	1.25	5.00

"Data Validation Copy"

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 14:11	Matrix:	WATER
Lab Sample ID:	201745006	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4118	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722792	Inst:	MSD2.I	Dilution:	1
Run Date:	01/31/2008 23:45	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 11:53	Aliquot:	1010 mL	Final Volume:	1 mL
Data File:	s2a3112.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	0.990 U	ug/L	0.307	0.990
129-00-0	Pyrene	U	0.990 U	ug/L	0.297	0.990
91-20-3	Naphthalene		1.17 =	ug/L	0.297	0.990
91-57-6	2-Methylnaphthalene	J	0.385 J	ug/L	0.297	0.990
91-58-7	2-Chloronaphthalene	U	0.990 U	ug/L	0.347	0.990
208-96-8	Acenaphthylene	U	0.990	ug/L	0.198	0.990
86-73-7	Fluorene	U	0.990	ug/L	0.198	0.990
85-01-8	Phenanthrene	U	0.990	ug/L	0.198	0.990
120-12-7	Anthracene	U	0.990	ug/L	0.198	0.990
206-44-0	Fluoranthene	U	0.990	ug/L	0.198	0.990
56-55-3	Benzo(a)anthracene	U	0.990	ug/L	0.198	0.990
218-01-9	Chrysene	U	0.990	ug/L	0.198	0.990
205-99-2	Benzo(b)fluoranthene	U	0.990	ug/L	0.198	0.990
207-08-9	Benzo(k)fluoranthene	U	0.990	ug/L	0.198	0.990
50-32-8	Benzo(a)pyrene	U	0.990	ug/L	0.198	0.990
193-39-5	Indeno(1,2,3-cd)pyrene	U	0.990	ug/L	0.198	0.990
53-70-3	Dibenzo(a,h)anthracene	U	0.990	ug/L	0.198	0.990
191-24-2	Benzo(ghi)perylene	U	0.990	ug/L	0.198	0.990

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744-1 METHOD TYPE: SW846

SAMPLE ID: 201745006 CLIENT ID: AK4118

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 28-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	112	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 15:02	Matrix:	WATER
Lab Sample ID:	201745007	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4218	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724925	Inst:	VOA9.I	Dilution:	1
Run Date:	02/09/2008 13:13	Analyst:	RXY1	Purge Vol:	5 mL
Prep Date:	02/09/2008 13:13				
Data File:	9w550.d	Column:	RTX-Volatiles	Level:	LOW

USR

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene		59.9 =	ug/L	0.250	1.00
100-41-4	Ethylbenzene	D	E 480 ~~484~~ =	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	D	3080 ~~1850~~ =	ug/L	0.250	1.00

DATA VALIDATION
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Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201744-1	Date Collected:	01/27/2008 15:02	Matrix:	WATER
Lab Sample ID:	201745007	Date Received:	01/28/2008 14:50		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4218	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722792	Inst:	MSD2.I	Dilution:	4
Run Date:	02/01/2008 20:37	Analyst:	AGS1	Inj. Vol:	.5 uL
Prep Date:	01/31/2008 11:53	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s2b0110.d	Column:	J&W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	4.00 U	ug/L	1.24	4.00
129-00-0	Pyrene	U	4.00 U	ug/L	1.20	4.00
91-20-3	Naphthalene		7.45	ug/L	1.20	4.00
91-57-6	2-Methylnaphthalene	U	4.00 U	ug/L	1.20	4.00
91-58-7	2-Chloronaphthalene	U	4.00	ug/L	1.40	4.00
208-96-8	Acenaphthylene	U	4.00	ug/L	0.800	4.00
86-73-7	Fluorene	U	4.00	ug/L	0.800	4.00
85-01-8	Phenanthrene	U	4.00	ug/L	0.800	4.00
120-12-7	Anthracene	U	4.00	ug/L	0.800	4.00
206-44-0	Fluoranthene	U	4.00	ug/L	0.800	4.00
56-55-3	Benzo(a)anthracene	U	4.00	ug/L	0.800	4.00
218-01-9	Chrysene	U	4.00	ug/L	0.800	4.00
205-99-2	Benzo(b)fluoranthene	U	4.00	ug/L	0.800	4.00
207-08-9	Benzo(k)fluoranthene	U	4.00	ug/L	0.800	4.00
50-32-8	Benzo(a)pyrene	U	4.00	ug/L	0.800	4.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	4.00	ug/L	0.800	4.00
53-70-3	Dibenzo(a,h)anthracene	U	4.00	ug/L	0.800	4.00
191-24-2	Benzo(ghi)perylene	U	4.00	ug/L	0.800	4.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201744-1 METHOD TYPE: SW846

SAMPLE ID: 201745007 CLIENT ID: AK4218

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 28-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	67.5	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION
COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810-1	Date Collected:	01/28/2008 08:35	Matrix:	WATER
Lab Sample ID:	201811001	Date Received:	01/29/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4318	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724959	Inst:	VOA1.I	Dilution:	1
Run Date:	02/09/2008 18:03	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/09/2008 18:03				
Data File:	1w619.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	J	0.728 J	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810-1	Date Collected:	01/28/2008 08:35	Matrix:	WATER
Lab Sample ID:	201811001	Date Received:	01/29/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
		Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Client ID:	AK4318	Inst:	MSD7.I	Dilution:	1
Batch ID:	722660	Analyst:	RMB	Inj. Vol:	.5 uL
Run Date:	01/31/2008 16:33	Aliquot:	1000 mL	Final Volume:	1 mL
Prep Date:	01/30/2008 17:14	Column:	J & W DB-5MS	Level:	LOW
Data File:	s7a3119.d				

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 u	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	U	1.00	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201810-1 METHOD TYPE: SW846

SAMPLE ID: 201811001 CLIENT ID: AK4318

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 29-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	0.760	ug/L	B		MS	0.05	1	ICPMS5	080205-1

J

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810-1	Date Collected:	01/28/2008 09:42	Matrix:	WATER
Lab Sample ID:	201811002	Date Received:	01/29/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4418	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724959	Inst:	VOA1.I	Dilution:	1
Run Date:	02/09/2008 18:31	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/09/2008 18:31				
Data File:	1w620.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 U	ug/L	0.300	1.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	J	0.264 J	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810-1	Date Collected:	01/28/2008 09:42	Matrix:	WATER
Lab Sample ID:	201811002	Date Received:	01/29/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4418	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722660	Inst:	MSD7.I	Dilution:	1
Run Date:	01/31/2008 16:54	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 17:14	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7a3120.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	U	1.00	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	U	1.00	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	U	1.00	ug/L	0.200	1.00
218-01-9	Chrysene	U	1.00	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	U	1.00	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201810-1 METHOD TYPE: SW846

SAMPLE ID: 201811002 CLIENT ID: AK4418

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 29-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	0.270	ug/L	B		MS	0.05	1	ICPMS5	080205-1

J

DATA VALIDATION COPY

Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810-1	Date Collected:	01/28/2008 11:01	Matrix:	WATER
Lab Sample ID:	201811003	Date Received:	01/29/2008 15:05		
		Client:	SA1C085	Project:	SA1C08507
Client ID:	AK4518	Method:	SW846 8260B	SOP Ref:	GL-OA-E-038
Batch ID:	724959	Inst:	VOA1.I	Dilution:	1
Run Date:	02/09/2008 19:00	Analyst:	ACJ	Purge Vol:	5 mL
Prep Date:	02/09/2008 19:00				
Data File:	1w621.d	Column:	RTX-Volatiles	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
71-43-2	Benzene	U	1.00 u	ug/L	0.300	1.00
108-88-3	Toluene	U	1.00	ug/L	0.250	1.00
100-41-4	Ethylbenzene	U	1.00	ug/L	0.250	1.00
1330-20-7	Xylenes (total)	U	1.00	ug/L	0.250	1.00

DATA VALIDATION COPY

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	201810-1	Date Collected:	01/28/2008 11:01	Matrix:	WATER
Lab Sample ID:	201811003	Date Received:	01/29/2008 15:05		
		Client:	SAIC085	Project:	SAIC08507
Client ID:	AK4518	Method:	SW846 8270C	SOP Ref:	GL-OA-E-009
Batch ID:	722660	Inst:	MSD7.I	Dilution:	1
Run Date:	01/31/2008 17:15	Analyst:	RMB	Inj. Vol:	.5 uL
Prep Date:	01/30/2008 17:14	Aliquot:	1000 mL	Final Volume:	1 mL
Data File:	s7a3121.d	Column:	J & W DB-5MS	Level:	LOW

CAS No.	Parmname	Qualifier	Result	Units	MDL/LOD	PQL/LOQ
83-32-9	Acenaphthene	U	1.00 U	ug/L	0.310	1.00
129-00-0	Pyrene	J	0.668 J	ug/L	0.300	1.00
91-20-3	Naphthalene	U	1.00 U	ug/L	0.300	1.00
91-57-6	2-Methylnaphthalene	U	1.00	ug/L	0.300	1.00
91-58-7	2-Chloronaphthalene	U	1.00	ug/L	0.350	1.00
208-96-8	Acenaphthylene	U	1.00	ug/L	0.200	1.00
86-73-7	Fluorene	U	1.00	ug/L	0.200	1.00
85-01-8	Phenanthrene	U	1.00	ug/L	0.200	1.00
120-12-7	Anthracene	U	1.00	ug/L	0.200	1.00
206-44-0	Fluoranthene	U	1.00	ug/L	0.200	1.00
56-55-3	Benzo(a)anthracene	J	0.528 J	ug/L	0.200	1.00
218-01-9	Chrysene	J	0.386	ug/L	0.200	1.00
205-99-2	Benzo(b)fluoranthene	J	0.294	ug/L	0.200	1.00
207-08-9	Benzo(k)fluoranthene	U	1.00 U	ug/L	0.200	1.00
50-32-8	Benzo(a)pyrene	U	1.00	ug/L	0.200	1.00
193-39-5	Indeno(1,2,3-cd)pyrene	U	1.00	ug/L	0.200	1.00
53-70-3	Dibenzo(a,h)anthracene	U	1.00	ug/L	0.200	1.00
191-24-2	Benzo(ghi)perylene	U	1.00	ug/L	0.200	1.00

DATA VALIDATION COPY

METALS
-1-
INORGANICS ANALYSIS DATA PACKAGE

SDG No: 201810-1 METHOD TYPE: SW846

SAMPLE ID: 201811003 CLIENT ID: AK4518

CONTRACT: SAIC08507

MATRIX: W DATE RECEIVED 29-JAN-08 LEVEL: Low %SOLIDS:

CAS No	Analyte	Result	Units	C	Qual	M	IDL	DF	Instrument ID	Analytical Run
7439-92-1	Lead	39.5	ug/L			MS	0.05	1	ICPMS5	080205-1

DATA VALIDATION COPY

Page 1 of 2

SAIC An Employee-Owned Company
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151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

201111%

CHAIN OF CUSTODY RECORD

201112%

COC NO.: PH1009

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-2945-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	VOC	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
TH0618	1/13/08	1515	QA				X	2		Trip Blank
AN1828	1/14/08	0837	GW	X				2		
AN1728	1/14/08	0936	GW	X				2		
AN1628	1/14/08	1101	GW	X				2		
AN1528	1/14/08	1153	GW	X				2		
AK0118	1/15/08	1225	GW	X	X	X		5		250 m poly for MS/MSD
AK0218	1/15/08	1334	GW	X	X	X		5		
AK0318	1/15/08	1442	GW	X	X	X		5		
AK0418	1/15/08	1550	GW	X	X	X		5		
AK0214	1/15/08	1334	GW	X	X	X		5		Duplicate
AK0718	1/16/08	0837	GW	X	X	X		5		
AK0714	1/16/08	0837	GW	X	X	X		5		Duplicate
AK0618	1/16/08	0943	GW	X	X	X		5		

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	1/16/08 1700	Fed EX	1/16/08 1700
COMPANY NAME: SAIC		COMPANY NAME: Fed EX	
RECEIVED BY: P. Hart	Date/Time 1/17/08 0936 ~~0935~~ PD 1/17/08	RELINQUISHED BY:	Date/Time
COMPANY NAME: B. C. L.		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: See pg. 2

Cooler ID:

Cooler Temperature: 4°C

FEDEX NUMBER: 8348 9689 8709

C-154

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CHAIN OF CUSTODY RECORD

COC NO.: PH1009

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-2945-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
AK0518	1/16/08	1048	GW	X			2		Insufficient volume for PAH/Lead.
AK3818	1/16/08	1251	GW	X	X	X	5		
AK3918	1/16/08	1343	GW	X	X	X	5		

TAC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 62	Cooler Temperature: 4°C
Timothy Coffey	1/16/08	Fed Ex	1/16/08	Cooler ID:	FEDEX NUMBER:
COMPANY NAME: SAIC	1700	COMPANY NAME: Fed Ex	1700		8348 9689 8709
RECEIVED BY: T. Ident	Date/Time 1/17/08	RELINQUISHED BY:	Date/Time		
COMPANY NAME: G.E.L.	0930	COMPANY NAME:			
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time		
COMPANY NAME:		COMPANY NAME:			

SAIC An Employee-Owned Company
Science Applications International Corporation
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201537, 201540

CHAIN OF CUSTODY RECORD

COC NO.: PH1012

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-~~2945-200~~ 3056-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
TH0619	1/23/08	0730	QA	X			2	N/A	Trip Blank
AK0819	1/23/08	0912	Soil	X	X	X	2	3150 ppm	
AK0818	1/23/08	0941	GW	X	X	X	5	N/A	
AK0919	1/23/08	1037	Soil	X	X	X	2	3640 ppm	
AK0915	1/23/08	1010	QA	X	X	X	5	N/A	Eq. Rinsate
AK0918	1/23/08	1055	GW	X	X	X	5	N/A	
AK1419	1/23/08	1147	Soil	X	X	X	2	840 ppm	
AK1418	1/23/08	1212	GW	X	X	X	5	N/A	
AK1519	1/23/08	1243	Soil	X	X	X	2	2740 ppm	
AK1518	1/23/08	1310	GW	X	X	X	5	N/A	250-ml bottle for MS/MSD
AK2119	1/23/08	1359	Soil	X	X	X	2	2770 ppm	
AK2118	1/23/08	1418	GW	X	X	X	5	N/A	
AK2019	1/23/08	1441	Soil	X	X	X	2	63.1 ppm	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/23/08 1900	Wayne H. Pu	or WHP 01/24/08
COMPANY NAME: SAIC		COMPANY NAME: SAIC	
RECEIVED BY: Wayne H Pu	01/23/08 1900	~~RELINQUISHED BY:~~ Rec. Ben Watkins	1/24/08
COMPANY NAME: SAIC		~~COMPANY NAME:~~ GEL	
RELINQUISHED BY: Wayne H Pu	01/24/08 1200	RECEIVED BY: ~~GEL~~ Ben Watkins	01/24/08 1200
COMPANY NAME: SAIC		COMPANY NAME: Rec'l GEL	

TOTAL NUMBER OF CONTAINERS: See Pg. 2

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

RELINQUISHED
Ben Watkins
1-24-08 1505

C-156

Page 2 of 2

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151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

COC NO.: PH1012

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-~~2945-200~~ 3056-206

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

	Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
.2	AK2018	1/23/08	1515	GW	X	X	X	5	N/A	
.3	AK4019	1/23/08	1603	Soil	X	X	X	2	28.4 ppm	
.2	AK4018	1/23/08	1628	GW	X	X	X	5	N/A	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 56	Cooler Temperature:
Timothy Coffey	01/23/08 1900	Ben Watkins	01/24/08 1200	Cooler ID:	FEDEX NUMBER:
COMPANY NAME: SAIC		COMPANY NAME: GEL			
RECEIVED BY: [illegible]	~~01/23/08~~ ~~1900~~	RELINQUISHED BY: 01/23/08 WHP 01/23/08	Date/Time		
COMPANY NAME: SAIC		COMPANY NAME: 1900			
RELINQUISHED BY: [illegible]	Date/Time 01/24/08 1200	RECEIVED BY: Relinquished Ben Watkins	Date/Time ~~01/24/08~~ 1/24/08 ~~1200~~ 1505 WHP		
COMPANY NAME: SAIC		COMPANY NAME: GEL			

RECEIVED BY: [illegible]

C-157

Page 1 of 2

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201682, 201683

CHAIN OF CUSTODY RECORD

COC NO.: PH1013

PROJECT NAME: Hunter - Pumphouse 1

PROJECT NUMBER: 01-1055-04-~~2945~~-200
3454

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials	OVA SCREENING	OBSERVATIONS, COMMENTS.
TH0620	1/24/08	0730	QA	X			2	N/A	Trip Blank
AK1019	1/24/08	0821	Soil	X	X	X	2	3040 ppm	
AK1018	1/24/08	0839	GW	X	X	X	5	N/A	
AK1119	1/24/08	0915	Soil	X	X	X	2	3340 ppm	
AK1118	1/24/08	0936	GW	X	X	X	5	N/A	
AK1219	1/24/08	1012	Soil	X	X	X	2	384 ppm	
AK1218	1/24/08	1030	GW	X	X	X	5	N/A	
AK1214	1/24/08	1030	GW	X	X	X	5	N/A	Duplicate
AK1319	1/24/08	1108	Soil	X	X	X	2	11.8 ppm	
AK1318	1/24/08	1134	GW	X	X	X	5	N/A	
AK1619	1/24/08	1301	Soil	X	X	X	2	118 ppm	
AK1618	1/24/08	1328	GW	X	X	X	5	N/A	
AK1719	1/24/08	1407	Soil	X	X	X	2	741 ppm	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/24/08	Ben Watkins	01/25/08
COMPANY NAME: SAIC	1900	COMPANY NAME: GEL	1120
RECEIVED BY: Wayne H. Pen	Date/Time 01/24/08	RELINQUISHED BY: Ben Watkins	Date/Time 01/25/08
COMPANY NAME: SAIC	1900	COMPANY NAME: GEL	1407
RELINQUISHED BY: Wayne H. Pen	Date/Time 01/25/08	RECEIVED BY: M. Smith	Date/Time 1/25/08
COMPANY NAME: SAIC	1120	COMPANY NAME: Gel	1407

TOTAL NUMBER OF CONTAINERS: See Pg. 2

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples! PAH and Lead are together in same 8-oz. Jar

201705 201706

Page 1 of 2

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CHAIN OF CUSTODY RECORD

COC NO.: PH1014

PROJECT NAME: Hunter - Pumphouse 1 TEC

PROJECT NUMBER: 01-1055-04-~~2945~~-200 3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

	Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
	~~TH4621~~	~~1/25/08~~		~~GA~~	X			2	N/A	~~Trip Blank~~
-1	AK1919	1/25/08	0811	Soil	X	X	X	2	3.7 ppm	TEC 1/2
-2	AK1918	1/25/08	0838	GW	X	X	X	5	N/A	
-1	AK2219	1/25/08	0913	Soil	X	X	X	2	1830 ppm	
-1	AK2213	1/25/08	0913	Soil	X	X	X	2	1830 ppm	Duplicate
-2	AK2218	1/25/08	0935	GW	X	X	X	5	N/A	
-1	AK2319	1/25/08	1040	Soil	X	X	X	2	2820 ppm	
-2	AK2318	1/25/08	1101	GW	X	X	X	5	N/A	
-1	AK2419	1/25/08	1138	Soil	X	X	X	2	2930 ppm	
-2	AK2418	1/25/08	1204	GW	X	X	X	5	N/A	
-1	AK2519	1/25/08	1306	Soil	X	X	X	2	13.3 ppm	
-2	AK2518	1/25/08	1339	GW	X	X	X	5	N/A	
-1	AK2619	1/25/08	1425	Soil	X	X	X	2	114 ppm	

TEC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/25/08 1900	P. Merit	01/26/08 1120
COMPANY NAME: SAIC		COMPANY NAME: G.E.L.	
RECEIVED BY: Wayne A. Pierce	Date/Time 01/25/08 1900	RELINQUISHED BY: P. Merit	Date/Time 1/26/08 0820 14:15
COMPANY NAME: SAIC		COMPANY NAME: G.E.L.	
RELINQUISHED BY: Wayne A. Pierce	Date/Time 01/26/08 1120	RECEIVED BY: Melvin Smith	Date/Time 1-26-08 14:15
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: See Pg. 2

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in the same 8-oz jar.

C-159

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151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

COC NO.: PH1014

PROJECT NAME: Hunter - Pumphouse 1
TSC

PROJECT NUMBER: 01-1055-04-~~2945~~-200
3456

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

	Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS.
2	AK2618	1/25/08	1445	GW	X	X	X	5	N/A	
				TSC						

TSC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time	TOTAL NUMBER OF CONTAINERS: 46	Cooler Temperature:
Timothy Coffey	01/25/08 1900	D. Mont	01/26/08 1120	Cooler ID: TSC #4 1/25/08	FEDEX NUMBER:
COMPANY NAME: SAIC		COMPANY NAME: G.E.L.			
RECEIVED BY: Wayne H. Pu	Date/Time 01/25/08 1900	RELINQUISHED BY:	Date/Time		
COMPANY NAME: SAIC		COMPANY NAME:			
RELINQUISHED BY: Wayne H. Pu	Date/Time 01/26/08 1120	RECEIVED BY: Molly Smith	Date/Time 1-26-08 1415		
COMPANY NAME: SAIC		COMPANY NAME: GEL			

Page 1 of 2

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CHAIN OF CUSTODY RECORD

201709°1

COC NO.: PH1015

PROJECT NAME: Hunter - Pumphouse 1 FC

PROJECT NUMBER: 01-1055-04-~~2045~~-200 34:56

PROJECT MANAGER: Patty Stoll

Sampler (Signature): [signature] (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

	Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
.1	AK2719	1/26/08	0828	Soil	X	X	X	2	2670 ppm	
.2	AK2718	1/26/08	0848	GW	X	X	X	5	N/A	
↓	AK2714	1/26/08	0848	GW	X	X	X	5	N/A	Duplicate
.1	AK2819	1/26/08	0940	Soil	X	X	X	2	3380 ppm	
.2	AK2818	1/26/08	0956	GW	X	X	X	5	N/A	
.1	AK2919	1/26/08	1030	Soil	X	X	X	2	3140 ppm	
.2	AK2918	1/26/08	1053	GW	X	X	X	5	N/A	
.1	AK3019	1/26/08	1140	Soil	X	X	X	2	3830 ppm	
.2	AK3018	1/26/08	1206	GW	X	X	X	5	N/A	Lead: 250-ml poly for MS/MSD
.1	AK3119	1/26/08	1310	Soil	X	X	X	2	0.0 ppm	
.2	AK3118	1/26/08	1330	GW	X	X	X	5	N/A	
.1	AK3719	1/26/08	1357	Soil	X	X	X	2	0.0 ppm	
↓	AK3713	1/26/08	1357	Soil	X	X	X	2	0.0 ppm	Duplicate

FC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
[signature]	01/26/08 1900	P. Nent	01/27/08 1200
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: [signature]	01/26/08 1900	RELINQUISHED BY: P. Nent	1/27/08 14:30
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: [signature]	01/27/08 1200	RECEIVED BY: Mellie Smith	1-27-08 1430
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: See pg. 2

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8-oz. jar.

C-161

Page 2 of 2

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151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD

COC NO.: PH1015

PROJECT NAME: Hunter - Pumphouse 1
TAC

PROJECT NUMBER: 01-1055-04-~~2045~~-200
3456

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
.2 AK3718	1/26/08	1425	GW	X	X	X	5	N/A	
.1 AK3619	1/26/08	1458	Soil	X	X	X	2	3740 ppm	
.2 AK3618	1/26/08	1533	GW	X	X	X	5	N/A	

TAC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/26/08 1400	P. Nent	01/27/08 1200
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Wayne Hu	01/26/08 1900	RELINQUISHED BY: P. Nent	1/27/08 14:30
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Wayne Hu	01/27/08 1200	RECEIVED BY: Mellie Smith	1-27-08 1430
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: 56

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For Soil samples: PAH and Lead are together in same 8-oz. jar.

C-162

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Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

201744, ~~201746~~ 201745

CHAIN OF CUSTODY RECORD

COC NO.: PH1016

PROJECT NAME: Hunter - Pumphouse 1
EIC

PROJECT NUMBER: 01-1055-04-~~2045~~-200
3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Timothy Coffey (Printed Name): Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
AK3219	1/27/08	0824	Soil	X	X	X	2	3390 ppm	
AK3218	1/27/08	0845	GW	X	X	X	5	N/A	
AK3214	1/27/08	0845	GW	X	X	X	5	N/A	Duplicate
AK3319	1/27/08	0917	Soil	X	X	X	2	2550 ppm	
AK3318	1/27/08	0956	GW	X	X	X	5	N/A	
AK3419	1/27/08	1032	Soil	X	X	X	2	3300 ppm	
AK3418	1/27/08	1056	GW	X	X	X	5	N/A	
AK3519	1/27/08	1256	Soil	X	X	X	2	2320 ppm	
AK3518	1/27/08	1320	GW	X	X	X	5	N/A	
AK4119	1/27/08	1346	Soil	X	X	X	2	2030 ppm	
AK4118	1/27/08	1411	GW	X	X	X	5	N/A	
AK4219	1/27/08	1437	Soil	X	X	X	2	2120 ppm	
AK4218	1/27/08	1502	GW	X	X	X	5	N/A	

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/27/08 1900	Block	01/28/08 1155
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Wayne H. Pa	01/27/08 1900	RELINQUISHED BY: Block	01/28/08 1450
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Wayne H. Pa	01/28/08 1155	RECEIVED BY: Michael Schen	1/28/08 1450
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: 47

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8-oz. jar.

SAIC An Employee-Owned Company
Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

CHAIN OF CUSTODY RECORD 201810% 201811%

COC NO.: PH1Ø17

PROJECT NAME: Hunter - Pumphouse 1 TSC

PROJECT NUMBER: 01-1055-04-~~2945~~-200 3056

PROJECT MANAGER: Patty Stoll

Sampler (Signature) Timothy Coffey (Printed Name) Timothy Coffey

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	PAH	Lead	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
AK4319	1/28/Ø8	Ø8Ø5	Soil	X	X	X	2	Ø.Ø ppm	
AK4318	1/28/Ø8	Ø835	GW	X	X	X	5	N/A	
AK4419	1/28/Ø8	Ø912	Soil	X	X	X	2	Ø.Ø ppm	
AK4418	1/28/Ø8	Ø942	GW	X	X	X	5	N/A	
AK4519	1/28/Ø8	1Ø4Ø	Soil	X	X	X	2	Ø.Ø ppm	
AK4518	1/28/Ø8	11Ø1	GW	X	X	X	5	N/A	

TSC

TSC

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Timothy Coffey	01/28/08 1900	Ben Watkins	01/29/08 1145
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RECEIVED BY: Wayne H. Pur	01/28/08 1900	RELINQUISHED BY: Ben Watkins	01/29/08 1505
COMPANY NAME: SAIC		COMPANY NAME: GEL	
RELINQUISHED BY: Wayne H. Pur	01/29/08 1145	RECEIVED BY: P. Nent	1/29/08 15:05
COMPANY NAME: SAIC		COMPANY NAME: GEL	

TOTAL NUMBER OF CONTAINERS: 21

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

For soil samples: PAH and Lead are together in same 8oz jar.

ARCADIS

APPENDIX B

Laboratory Data

July 2008 Semiannual Monitoring

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID:	AK05F2	Project:	SAIC09800
Sample ID:	212743002	Client ID:	SAIC098
Matrix:	Water		
Collect Date:	16-JUL-08 13:45		
Receive Date:	19-JUL-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		2090	15.0	50.0	ug/L	50	DXK1 07/30/08	1217	778655	1
Ethylbenzene		568	12.5	50.0	ug/L	50				
Toluene		65.1	12.5	50.0	ug/L	50				
Xylenes (total)		3110	12.5	50.0	ug/L	50				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	2730 ug/L	70.0	78	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	2860 ug/L	70.0	82	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	2910 ug/L	70.0	83	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	3060 ug/L	70.0	87	(84%-121%)

Notes:
The Qualifiers in this report are defined as follows :

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
F Estimated Value
H Analytical holding time was exceeded
J Value is estimated

GEL Laboratories LLC PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407 P 843.556.8171 F 843.766.1178 www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AK05F2
Sample ID: 212743002

Project: SAIC09800
Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M Matrix Related Failure
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

GEL LABORATORIES LLC
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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AK06F2
Sample ID: 212743001
Matrix: Water
Collect Date: 16-JUL-08 13:05
Receive Date: 19-JUL-08
Collector: Client

Project: SAIC09800
Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		44.4	0.300	1.00	ug/L	1	DXK1 07/28/08	1847	778655	1
Ethylbenzene	E	476	0.250	1.00	ug/L	1				
Toluene		28.2	0.250	1.00	ug/L	1				
Xylenes (total)		1770	0.250	1.00	ug/L	1				
Benzene		54.8	7.50	25.0	ug/L	25	ACJ 07/29/08	1722	778655	2
Ethylbenzene		890	6.25	25.0	ug/L	25				
Toluene		38.4	6.25	25.0	ug/L	25				
Xylenes (total)		4280	6.25	25.0	ug/L	25				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	53.5 ug/L	70.0	76	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	56.8 ug/L	70.0	81	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	59.1 ug/L	70.0	84	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	62.0 ug/L	70.0	89	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	861 ug/L	40.0	86	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	944 ug/L	40.0	94	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	941 ug/L	40.0	94	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1020 ug/L	40.0	102	(84%-121%)

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Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AK06F2 Project: SAIC09800
Sample ID: 212743001 Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
F Estimated Value
H Analytical holding time was exceeded
J Value is estimated
M Matrix Related Failure
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID:	AN01F2	Project:	SAIC09800
Sample ID:	212743006	Client ID:	SAIC098
Matrix:	Water		
Collect Date:	16-JUL-08 15:50		
Receive Date:	19-JUL-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		6.02	0.600	2.00	ug/L	2	DXK1 07/29/08	1832	778655	1
Ethylbenzene	E	1110	0.500	2.00	ug/L	2				
Toluene	E	1020	0.500	2.00	ug/L	2				
Xylenes (total)	B	3940	0.500	2.00	ug/L	2				
Benzene	U	ND	15.0	50.0	ug/L	50	ACJ 07/29/08	1655	778655	2
Ethylbenzene		2000	12.5	50.0	ug/L	50				
Toluene		1330	12.5	50.0	ug/L	50				
Xylenes (total)		9080	12.5	50.0	ug/L	50				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	103 ug/L	70.0	73	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	113 ug/L	70.0	81	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	115 ug/L	70.0	82	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	121 ug/L	70.0	86	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	1700 ug/L	40.0	85	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	1870 ug/L	40.0	94	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1880 ug/L	40.0	94	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	2040 ug/L	40.0	102	(84%-121%)

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AN01F2
Sample ID: 212743006
Project: SAIC09800
Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
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** Analyte is a surrogate compound
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
F Estimated Value
H Analytical holding time was exceeded
J Value is estimated
M Matrix Related Failure
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID:	AN02F2	Project:	SAIC09800
Sample ID:	212743008	Client ID:	SAIC098
Matrix:	Water		
Collect Date:	16-JUL-08 17:05		
Receive Date:	19-JUL-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		614	30.0	100	ug/L	100	ACJ 07/29/08	1533	778655	1
Ethylbenzene		2220	25.0	100	ug/L	100				
Toluene	E	18300	25.0	100	ug/L	100				
Xylenes (total)		8970	25.0	100	ug/L	100				
Benzene		499	60.0	200	ug/L	200	DXK1 07/29/08	1736	778655	2
Ethylbenzene		1780	50.0	200	ug/L	200				
Toluene		17200	50.0	200	ug/L	200				
Xylenes (total)	B	7310	50.0	200	ug/L	200				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	3430 ug/L	40.0	86	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	3700 ug/L	40.0	93	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	3810 ug/L	40.0	95	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	4040 ug/L	40.0	101	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	10800 ug/L	70.0	77	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	11700 ug/L	70.0	84	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	11800 ug/L	70.0	84	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	12400 ug/L	70.0	89	(84%-121%)

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AN02F2
Sample ID: 212743008

Project: SAIC09800
Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
F Estimated Value
H Analytical holding time was exceeded
J Value is estimated
M Matrix Related Failure
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID:	AN19F2	Project:	SAIC09800
Sample ID:	212743007	Client ID:	SAIC098
Matrix:	Water		
Collect Date:	16-JUL-08 16:25		
Receive Date:	19-JUL-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		518	7.50	25.0	ug/L	25	ACJ	07/29/08	1844	778655	1
Ethylbenzene		1630	6.25	25.0	ug/L	25					
Toluene		1490	6.25	25.0	ug/L	25					
Xylenes (total)		5950	6.25	25.0	ug/L	25					
Benzene		538	15.0	50.0	ug/L	50	ACJ	07/29/08	2006	778655	2
Ethylbenzene		1750	12.5	50.0	ug/L	50					
Toluene		1590	12.5	50.0	ug/L	50					
Xylenes (total)		6630	12.5	50.0	ug/L	50					

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	856 ug/L	40.0	86	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	925 ug/L	40.0	93	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	929 ug/L	40.0	93	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1020 ug/L	40.0	102	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	1750 ug/L	40.0	87	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	1840 ug/L	40.0	92	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	1880 ug/L	40.0	94	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	2040 ug/L	40.0	102	(84%-121%)

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AN19F2
Sample ID: 212743007

Project: SAIC09800
Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
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C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
F Estimated Value
H Analytical holding time was exceeded
J Value is estimated
M Matrix Related Failure
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AN21F2
Sample ID: 212743005
Matrix: Water
Collect Date: 16-JUL-08 15:15
Receive Date: 19-JUL-08
Collector: Client

Project: SAIC09800
Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		2.98	0.300	1.00	ug/L	1	DXK1 07/29/08	2150	778655	1
Ethylbenzene	E	213	0.250	1.00	ug/L	1				
Toluene		1.37	0.250	1.00	ug/L	1				
Xylenes (total)	B	525	0.250	1.00	ug/L	1				
Benzene	J	3.67	1.50	5.00	ug/L	5	ACJ 07/29/08	2221	778655	2
Ethylbenzene		249	1.25	5.00	ug/L	5				
Toluene	J	1.77	1.25	5.00	ug/L	5				
Xylenes (total)		622	1.25	5.00	ug/L	5				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	50.2 ug/L	70.0	72	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	55.1 ug/L	70.0	79	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	55.4 ug/L	70.0	79	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	58.8 ug/L	70.0	84	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	172 ug/L	40.0	86	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	189 ug/L	40.0	95	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	189 ug/L	40.0	95	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	204 ug/L	40.0	102	(84%-121%)

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AN21F2 Project: SAIC09800
Sample ID: 212743005 Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
The Qualifiers in this report are defined as follows :

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
F Estimated Value
H Analytical holding time was exceeded
J Value is estimated
M Matrix Related Failure
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID:	AN22F2	Project:	SAIC09800
Sample ID:	212743003	Client ID:	SAIC098
Matrix:	Water		
Collect Date:	16-JUL-08 14:35		
Receive Date:	19-JUL-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		24.6	1.50	5.00	ug/L	5	DXK1 07/29/08	2011	778655	1
Ethylbenzene		77.8	1.25	5.00	ug/L	5				
Toluene		7.32	1.25	5.00	ug/L	5				
Xylenes (total)	B	3790	1.25	5.00	ug/L	5				
Benzene		28.2	7.50	25.0	ug/L	25	ACJ 07/29/08	1749	778655	2
Ethylbenzene		86.6	6.25	25.0	ug/L	25				
Toluene	J	9.88	6.25	25.0	ug/L	25				
Xylenes (total)		4650	6.25	25.0	ug/L	25				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	264 ug/L	70.0	76	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	282 ug/L	70.0	80	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	287 ug/L	70.0	82	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	302 ug/L	70.0	86	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	863 ug/L	40.0	86	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	931 ug/L	40.0	93	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	933 ug/L	40.0	93	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1030 ug/L	40.0	103	(84%-121%)

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson

Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AN22F2 Project: SAIC09800
Sample ID: 212743003 Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
The Qualifiers in this report are defined as follows :

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
F Estimated Value
H Analytical holding time was exceeded
J Value is estimated
M Matrix Related Failure
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

The above sample is reported on an "as received" basis.
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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson

Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID:	AN22F4	Project:	SAIC09800
Sample ID:	212743004	Client ID:	SAIC098
Matrix:	Water		
Collect Date:	16-JUL-08 14:35		
Receive Date:	19-JUL-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene		25.3	1.50	5.00	ug/L	5	DXK1 07/30/08	1242	778655	1
Ethylbenzene		79.0	1.25	5.00	ug/L	5				
Toluene		6.79	1.25	5.00	ug/L	5				
Xylenes (total)		3900	1.25	5.00	ug/L	5				
Benzene		28.6	7.50	25.0	ug/L	25	ACJ 07/29/08	1817	778655	2
Ethylbenzene		90.5	6.25	25.0	ug/L	25				
Toluene	J	9.60	6.25	25.0	ug/L	25				
Xylenes (total)		4930	6.25	25.0	ug/L	25				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	273 ug/L	70.0	78	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	286 ug/L	70.0	82	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	293 ug/L	70.0	84	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	306 ug/L	70.0	88	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	860 ug/L	40.0	86	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	935 ug/L	40.0	93	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	927 ug/L	40.0	93	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	1020 ug/L	40.0	102	(84%-121%)

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson

Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AN22F4 Project: SAIC09800
Sample ID: 212743004 Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
The Qualifiers in this report are defined as follows :

** Analyte is a surrogate compound
< Result is less than value reported
> Result is greater than value reported
A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
F Estimated Value
H Analytical holding time was exceeded
J Value is estimated
M Matrix Related Failure
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valerie Davis
Reviewed by

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AN23F2
Sample ID: 212743009
Matrix: Water
Collect Date: 16-JUL-08 17:40
Receive Date: 19-JUL-08
Collector: Client

Project: SAIC09800
Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
Volatile Organics Federal											
8260B BTEX in Liquid Federal "As Received"											
Benzene		71.0	1.50	5.00	ug/L	5	ACJ	07/29/08	2033	778655	1
Ethylbenzene		144	1.25	5.00	ug/L	5					
Toluene		10.6	1.25	5.00	ug/L	5					
Xylenes (total)		1240	1.25	5.00	ug/L	5					
Benzene		71.9	3.00	10.0	ug/L	10	ACJ	07/29/08	2153	778655	2
Ethylbenzene		142	2.50	10.0	ug/L	10					
Toluene		11.0	2.50	10.0	ug/L	10					
Xylenes (total)		1280	2.50	10.0	ug/L	10					

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	
2	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	171 ug/L	40.0	86	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	185 ug/L	40.0	92	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	185 ug/L	40.0	93	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	203 ug/L	40.0	102	(84%-121%)
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	346 ug/L	40.0	87	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	371 ug/L	40.0	93	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	377 ug/L	40.0	94	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	409 ug/L	40.0	102	(84%-121%)

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **Ft. Stewart/HAAFB MMI FY08 (01-0827-34-9294-200)**

Client Sample ID: AN23F2 Project: SAIC09800
Sample ID: 212743009 Client ID: SAIC098

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Notes:
The Qualifiers in this report are defined as follows :

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B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
F Estimated Value
H Analytical holding time was exceeded
J Value is estimated
M Matrix Related Failure
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Reviewed by

GEL Laboratories LLC PO Box 30712 Charleston, SC 29417 2040 Savage Road Charleston, SC 29407 P 843.556.8171 F 843.766.1178 www.gel.com

GEL LABORATORIES LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **FY08 Monitoring at Former Pumphouse #2**
(01-0827-34-9642-200)

Client Sample ID:	TH0626	Project:	SAIC09900
Sample ID:	212744001	Client ID:	SAIC099
Matrix:	Water		
Collect Date:	15-JUL-08 07:00		
Receive Date:	19-JUL-08		
Collector:	Client		

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B BTEX in Liquid Federal "As Received"										
Benzene	U	ND	0.300	1.00	ug/L	1	SJW1 07/28/08	1406	778654	1
Ethylbenzene	U	ND	0.250	1.00	ug/L	1				
Toluene	U	ND	0.250	1.00	ug/L	1				
Xylenes (total)	U	ND	0.250	1.00	ug/L	1				

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	8260B BTEX in Liquid Federal "As Received"	62.2 ug/L	65.0	96	(66%-126%)
Bromofluorobenzene	8260B BTEX in Liquid Federal "As Received"	61.7 ug/L	65.0	95	(75%-121%)
Dibromofluoromethane	8260B BTEX in Liquid Federal "As Received"	64.1 ug/L	65.0	99	(75%-129%)
Toluene-d8	8260B BTEX in Liquid Federal "As Received"	70.4 ug/L	65.0	108	(84%-121%)

Notes:
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< Result is less than value reported
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A The TIC is a suspected aldol-condensation product
B For General Chemistry and Organic analysis the target analyte was detected in the associated blank.
C Analyte has been confirmed by GC/MS analysis
D Results are reported from a diluted aliquot of the sample
E Organics--Concentration of the target analyte exceeds the instrument calibration range
F Estimated Value
H Analytical holding time was exceeded
J Value is estimated

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : SAIC
Address : 151 Lafayette Drive
Oak Ridge, Tennessee 37831

Report Date: August 19, 2008

Contact: Ms. Marie Simpson
Project: **FY08 Monitoring at Former Pumphouse #2**
(01-0827-34-9642-200)

Client Sample ID: TH0626 Project: SAIC09900
Sample ID: 212744001 Client ID: SAIC099

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

M Matrix Related Failure
N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
N/A RPD or %Recovery limits do not apply.
ND Analyte concentration is not detected above the detection limit
NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, difference is also <70%
R Sample results are rejected
U Analyte was analyzed for, but not detected above the MDL, MDA, or LOD.
X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
Y QC Samples were not spiked with this compound
^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
h Preparation or preservation holding time was exceeded

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Valerie Davis
Reviewed by

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Science Applications International Corporation
151 Lafayette Ave, Oak Ridge, TN 37830 (865)481-4600

212743
~~212332~~ 18

CHAIN OF CUSTODY RECORD

COC NO.: HLTM07082

PROJECT NAME: Hunter-Pumphouse 1

PROJECT NUMBER: 01-0827-04-9294-200

PROJECT MANAGER: Patty Stoll

Sampler (Signature): Wayne H. Parker (Printed Name): WAYNE H. PARKER

LABORATORY NAME: General Engineering Laboratory

LABORATORY ADDRESS: 2040 Savage Raod, Charleston, SC 29407

PHONE NO: (843)556-8171

REQUESTED PARAMETERS

Sample ID	Date Collected	Time Collected	Matrix	BTEX	No. of Bottles/ Vials:	OVA SCREENING	OBSERVATIONS, COMMENTS,
AK06FZ	07/16/08	1305	WATER	2	2		
AK05FZ	07/16/08	1345	WATER	2	2		
AN22FZ	07/16/08	1435	WATER	2	2		
AN22FY	07/16/08	1435	WATER	2	2		
AN21FZ	07/16/08	1515	WATER	2	2		
AN01FZ	07/16/08	1550	WATER	2	2		
AN19FZ	07/16/08	1625	WATER	2	2		
AN02FZ	07/16/08	1705	WATER	2	2		
AN23FZ	07/16/08	1740	WATER	2	2		

WHP 07/18/08

RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
Wayne H. Parker	07/18/08 1500	[illegible]	7/19/08 0945
COMPANY NAME: SAIC		COMPANY NAME: Gel	
RECEIVED BY: FEDEX	Date/Time 07/18/08 1500	RELINQUISHED BY:	Date/Time
COMPANY NAME: FEDEX		COMPANY NAME:	
RELINQUISHED BY:	Date/Time	RECEIVED BY:	Date/Time
COMPANY NAME:		COMPANY NAME:	

TOTAL NUMBER OF CONTAINERS: 18

Cooler ID:

Cooler Temperature:

FEDEX NUMBER:

ARCADIS

APPENDIX C

Laboratory Data

December 2008 Annual Monitoring

Note: Lab provides analytical data in electronic form only. Original COC is included.

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

ARCADIS U.S., Inc.
30 Patewood Drive
Suite 155
Greenville, SC 29615
Attention: Chuck Bertz

Project Name: **Hunter Stewart - HAAF**

Project Number: **GP08HAFS.H18A.D0F1**

Lot Number: **JL19016**

Date Completed: **12/30/2008**

Michael Casalena
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

• • • • • • • • • •

Case Narrative
ARCADIS U.S., Inc.
Lot Number: JL19016

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Sample Summary
ARCADIS U.S., Inc.
Lot Number: JL19016

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	P-MW2 (121608)	Aqueous	12/16/2008 1640	12/19/2008
002	P-HGL (121608)	Aqueous	12/16/2008 1533	12/19/2008
003	P-MW3 (121608)	Aqueous	12/16/2008 1436	12/19/2008
004	P-MW1 (121608)	Aqueous	12/16/2008 1235	12/19/2008
005	P-MW4 (121608)	Aqueous	12/16/2008 1112	12/19/2008
006	P-MW5 (121608)	Aqueous	12/16/2008 0950	12/19/2008
007	TB1 (121608)	Aqueous	12/19/2008 0940	12/19/2008
008	D-MW5R(121708)	Aqueous	12/17/2008 1003	12/19/2008
009	D-MW6R(121708)	Aqueous	12/17/2008 1121	12/19/2008
010	D1-MW1(121708)	Aqueous	12/17/2008 1645	12/19/2008
011	P1-MW18(121708)	Aqueous	12/17/2008 1145	12/19/2008
012	P1-MW19(121708)	Aqueous	12/17/2008 1540	12/19/2008
013	P1-MW22(121708)	Aqueous	12/17/2008 1015	12/19/2008
014	P1-MW23(121708)	Aqueous	12/17/2008 1355	12/19/2008
015	P1-MW2(121808)	Aqueous	12/17/2008 0848	12/19/2008
016	DUP-HAA13R2-1	Aqueous	12/17/2008 1200	12/19/2008
017	P1-SW11(121808)	Aqueous	12/17/2008 0940	12/19/2008
018	P1-SW12(121808)	Aqueous	12/17/2008 0935	12/19/2008
019	TB-1(121708)	Aqueous	12/19/2008 0800	12/19/2008
020	D-MW1 (121608)	Aqueous	12/16/2008 1745	12/19/2008

(20 samples)

Executive Summary
ARCADIS U.S., Inc.
Lot Number: JL19016

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	P-MW2 (121608)	Aqueous	Benzene	8260B	3.3		ug/L	6
003	P-MW3 (121608)	Aqueous	Benzene	8260B	1.1		ug/L	10
003	P-MW3 (121608)	Aqueous	Xylenes (total)	8260B	20		ug/L	11
004	P-MW1 (121608)	Aqueous	Acetone	8260B	38		ug/L	12
004	P-MW1 (121608)	Aqueous	Benzene	8260B	82		ug/L	12
004	P-MW1 (121608)	Aqueous	Cyclohexane	8260B	56		ug/L	12
004	P-MW1 (121608)	Aqueous	1,2-Dichloroethane	8260B	2.2		ug/L	12
004	P-MW1 (121608)	Aqueous	Ethylbenzene	8260B	8.6		ug/L	12
004	P-MW1 (121608)	Aqueous	Isopropylbenzene	8260B	6.7		ug/L	12
004	P-MW1 (121608)	Aqueous	Methylcyclohexane	8260B	15		ug/L	12
004	P-MW1 (121608)	Aqueous	Methylene chloride	8260B	1.9		ug/L	12
004	P-MW1 (121608)	Aqueous	Toluene	8260B	3.7		ug/L	12
004	P-MW1 (121608)	Aqueous	Xylenes (total)	8260B	8.8		ug/L	13
005	P-MW4 (121608)	Aqueous	Acetone	8260B	22		ug/L	14
005	P-MW4 (121608)	Aqueous	Benzene	8260B	76		ug/L	14
005	P-MW4 (121608)	Aqueous	Chloromethane (Methyl chloride)	8260B	0.63		ug/L	14
005	P-MW4 (121608)	Aqueous	Cyclohexane	8260B	10		ug/L	14
005	P-MW4 (121608)	Aqueous	Ethylbenzene	8260B	6.9		ug/L	14
005	P-MW4 (121608)	Aqueous	Isopropylbenzene	8260B	1.0		ug/L	14
005	P-MW4 (121608)	Aqueous	Methylene chloride	8260B	3.7		ug/L	14
005	P-MW4 (121608)	Aqueous	Toluene	8260B	100		ug/L	14
005	P-MW4 (121608)	Aqueous	Xylenes (total)	8260B	60		ug/L	15
006	P-MW5 (121608)	Aqueous	Methylene chloride	8260B	1.2		ug/L	16
008	D-MW5R(121708)	Aqueous	Benzene	8260B	1700		ug/L	20
008	D-MW5R(121708)	Aqueous	Ethylbenzene	8260B	290		ug/L	20
008	D-MW5R(121708)	Aqueous	Toluene	8260B	74		ug/L	20
008	D-MW5R(121708)	Aqueous	Xylenes (total)	8260B	1800		ug/L	20
009	D-MW6R(121708)	Aqueous	Benzene	8260B	84		ug/L	21
009	D-MW6R(121708)	Aqueous	Ethylbenzene	8260B	510		ug/L	21
009	D-MW6R(121708)	Aqueous	Toluene	8260B	34		ug/L	21
009	D-MW6R(121708)	Aqueous	Xylenes (total)	8260B	2500		ug/L	21
010	D1-MW1(121708)	Aqueous	Ethylbenzene	8260B	1700		ug/L	22
010	D1-MW1(121708)	Aqueous	Toluene	8260B	1100		ug/L	22
010	D1-MW1(121708)	Aqueous	Xylenes (total)	8260B	8600		ug/L	22
011	P1-MW18(121708)	Aqueous	Ethylbenzene	8260B	7.7		ug/L	23
011	P1-MW18(121708)	Aqueous	Toluene	8260B	1.2		ug/L	23
011	P1-MW18(121708)	Aqueous	Xylenes (total)	8260B	13		ug/L	23
012	P1-MW19(121708)	Aqueous	Benzene	8260B	420		ug/L	24
012	P1-MW19(121708)	Aqueous	Ethylbenzene	8260B	1700		ug/L	24
012	P1-MW19(121708)	Aqueous	Toluene	8260B	1300		ug/L	24
012	P1-MW19(121708)	Aqueous	Xylenes (total)	8260B	6500		ug/L	24
013	P1-MW22(121708)	Aqueous	Benzene	8260B	29		ug/L	25
013	P1-MW22(121708)	Aqueous	Ethylbenzene	8260B	95		ug/L	25
013	P1-MW22(121708)	Aqueous	Toluene	8260B	18		ug/L	25
013	P1-MW22(121708)	Aqueous	Xylenes (total)	8260B	3900		ug/L	25

Executive Summary (Continued)

Lot Number: JL19016

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
014	P1-MW23(121708)	Aqueous	Benzene	8260B	88		ug/L	26
014	P1-MW23(121708)	Aqueous	Ethylbenzene	8260B	180		ug/L	26
014	P1-MW23(121708)	Aqueous	Toluene	8260B	17		ug/L	26
014	P1-MW23(121708)	Aqueous	Xylenes (total)	8260B	1500		ug/L	26
015	P1-MW2(121808)	Aqueous	Benzene	8260B	520		ug/L	27
015	P1-MW2(121808)	Aqueous	Ethylbenzene	8260B	1700		ug/L	27
015	P1-MW2(121808)	Aqueous	Toluene	8260B	16000		ug/L	27
015	P1-MW2(121808)	Aqueous	Xylenes (total)	8260B	6900		ug/L	27
016	DUP-HAA13R2-1	Aqueous	Benzene	8260B	480		ug/L	28
016	DUP-HAA13R2-1	Aqueous	Ethylbenzene	8260B	1900		ug/L	28
016	DUP-HAA13R2-1	Aqueous	Toluene	8260B	15000		ug/L	28
016	DUP-HAA13R2-1	Aqueous	Xylenes (total)	8260B	7400		ug/L	28
017	P1-SW11(121808)	Aqueous	Benzene	8260B	24		ug/L	29
017	P1-SW11(121808)	Aqueous	Ethylbenzene	8260B	51		ug/L	29
017	P1-SW11(121808)	Aqueous	Toluene	8260B	26		ug/L	29
017	P1-SW11(121808)	Aqueous	Xylenes (total)	8260B	370		ug/L	29
018	P1-SW12(121808)	Aqueous	Benzene	8260B	2.4		ug/L	30
018	P1-SW12(121808)	Aqueous	Ethylbenzene	8260B	16		ug/L	30
018	P1-SW12(121808)	Aqueous	Toluene	8260B	33		ug/L	30
018	P1-SW12(121808)	Aqueous	Xylenes (total)	8260B	88		ug/L	30
020	D-MW1 (121608)	Aqueous	Benzene	8260B	300		ug/L	32
020	D-MW1 (121608)	Aqueous	Ethylbenzene	8260B	2500		ug/L	32
020	D-MW1 (121608)	Aqueous	Toluene	8260B	220		ug/L	32
020	D-MW1 (121608)	Aqueous	Xylenes (total)	8260B	8800		ug/L	32

(69 detections)

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P-MW2 (121608)**
Date Sampled: **12/16/2008 1640**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2008 1249	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	**71-43-2**	**8260B**	**3.3**		**0.50**	**ug/L**	**1**
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P-MW2 (121608)**
Date Sampled: **12/16/2008 1640**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2008 1249	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	52-138
Bromofluorobenzene		90	70-147
Toluene-d8		88	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P-HGL (121608)**
Date Sampled: **12/16/2008 1533**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0519	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P-HGL (121608)**
Date Sampled: **12/16/2008 1533**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0519	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	52-138
Bromofluorobenzene		105	70-147
Toluene-d8		97	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P-MW3 (121608)**
Date Sampled: **12/16/2008 1436**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0811	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	**71-43-2**	**8260B**	**1.1**		**0.50**	**ug/L**	**1**
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Laboratory ID: **JL19016-003**
Description: **P-MW3 (121608)**
Matrix: **Aqueous**
Date Sampled: **12/16/2008 1436**
Date Received: **12/19/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0811	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**20**		**0.50**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	52-138
Bromofluorobenzene		106	70-147
Toluene-d8		97	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P-MW1 (121608)**
Date Sampled: **12/16/2008 1235**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0750	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	**67-64-1**	**8260B**	**38**		**10**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**82**		**0.50**	**ug/L**	**1**
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	**110-82-7**	**8260B**	**56**		**0.50**	**ug/L**	**1**
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**2.2**		**0.50**	**ug/L**	**1**
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**8.6**		**0.50**	**ug/L**	**1**
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	**98-82-8**	**8260B**	**6.7**		**0.50**	**ug/L**	**1**
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	**108-87-2**	**8260B**	**15**		**5.0**	**ug/L**	**1**
Methylene chloride	**75-09-2**	**8260B**	**1.9**		**0.50**	**ug/L**	**1**
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	**108-88-3**	**8260B**	**3.7**		**0.50**	**ug/L**	**1**
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P-MW1 (121608)**
Date Sampled: **12/16/2008 1235**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0750	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**8.8**		**0.50**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	52-138
Bromofluorobenzene		104	70-147
Toluene-d8		96	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P-MW4 (121608)**
Date Sampled: **12/16/2008 1112**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0728	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	**67-64-1**	**8260B**	**22**		**10**	**ug/L**	**1**
Benzene	**71-43-2**	**8260B**	**76**		**0.50**	**ug/L**	**1**
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	**74-87-3**	**8260B**	**0.63**		**0.50**	**ug/L**	**1**
Cyclohexane	**110-82-7**	**8260B**	**10**		**0.50**	**ug/L**	**1**
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**6.9**		**0.50**	**ug/L**	**1**
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	**98-82-8**	**8260B**	**1.0**		**0.50**	**ug/L**	**1**
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	**75-09-2**	**8260B**	**3.7**		**0.50**	**ug/L**	**1**
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	**108-88-3**	**8260B**	**100**		**0.50**	**ug/L**	**1**
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P-MW4 (121608)**
Date Sampled: **12/16/2008 1112**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0728	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**60**		**0.50**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	52-138
Bromofluorobenzene		103	70-147
Toluene-d8		96	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P-MW5 (121608)**
Date Sampled: **12/16/2008 0950**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0707	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	**75-09-2**	**8260B**	**1.2**		**0.50**	**ug/L**	**1**
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Laboratory ID: **JL19016-006**
Description: **P-MW5 (121608)**
Matrix: **Aqueous**
Date Sampled: **12/16/2008 0950**
Date Received: **12/19/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0707	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	52-138
Bromofluorobenzene		103	70-147
Toluene-d8		97	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **TB1 (121608)**
Date Sampled: **12/19/2008 0940**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0645	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
Cyclohexane	110-82-7	8260B	ND		0.50	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		0.50	ug/L	1
Methyl acetate	79-20-9	8260B	ND		1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		0.50	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **TB1 (121608)**
Date Sampled: **12/19/2008 0940**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/24/2008 0645	IVC		92339

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	52-138
Bromofluorobenzene		105	70-147
Toluene-d8		96	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Laboratory ID: **JL19016-008**
Description: **D-MW5R(121708)**
Matrix: **Aqueous**
Date Sampled: **12/17/2008 1003**
Date Received: **12/19/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/29/2008 1655	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**1700**		**5.0**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**290**		**5.0**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**74**		**5.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**1800**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	52-138
Bromofluorobenzene		86	70-147
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **D-MW6R(121708)**
Date Sampled: **12/17/2008 1121**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	10	12/29/2008 1717	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**84**		**5.0**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**510**		**5.0**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**34**		**5.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**2500**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	52-138
Bromofluorobenzene		86	70-147
Toluene-d8		96	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Laboratory ID: **JL19016-010**
Description: **D1-MW1(121708)**
Matrix: **Aqueous**
Date Sampled: **12/17/2008 1645**
Date Received: **12/19/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	12/29/2008 1739	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		10	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**1700**		**10**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**1100**		**10**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**8600**		**10**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	52-138
Bromofluorobenzene		90	70-147
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Laboratory ID: **JL19016-011**
Description: **P1-MW18(121708)**
Matrix: **Aqueous**
Date Sampled: **12/17/2008 1145**
Date Received: **12/19/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2008 1311	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**7.7**		**0.50**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**1.2**		**0.50**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**13**		**0.50**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	52-138
Bromofluorobenzene		90	70-147
Toluene-d8		89	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P1-MW19(121708)**
Date Sampled: **12/17/2008 1540**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-012**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	12/29/2008 1801	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**420**		**10**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**1700**		**10**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**1300**		**10**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**6500**		**10**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	52-138
Bromofluorobenzene		88	70-147
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **P1-MW22(121708)**
Date Sampled: **12/17/2008 1015**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-013**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	12/29/2008 1823	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**29**		**10**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**95**		**10**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**18**		**10**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**3900**		**10**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	52-138
Bromofluorobenzene		86	70-147
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Laboratory ID: **JL19016-014**
Description: **P1-MW23(121708)**
Matrix: **Aqueous**
Date Sampled: **12/17/2008 1355**
Date Received: **12/19/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	12/29/2008 1845	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**88**		**2.5**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**180**		**2.5**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**17**		**2.5**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**1500**		**2.5**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	52-138
Bromofluorobenzene		87	70-147
Toluene-d8		93	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Laboratory ID: **JL19016-015**
Description: **P1-MW2(121808)**
Matrix: **Aqueous**
Date Sampled: **12/17/2008 0848**
Date Received: **12/19/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	12/29/2008 1907	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**520**		**25**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**1700**		**25**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**16000**		**25**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**6900**		**25**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	52-138
Bromofluorobenzene		87	70-147
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **DUP-HAA13R2-1**
Date Sampled: **12/17/2008 1200**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-016**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	12/29/2008 1929	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**480**		**25**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**1900**		**25**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**15000**		**25**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**7400**		**25**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	52-138
Bromofluorobenzene		88	70-147
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Laboratory ID: **JL19016-017**
Description: **P1-SW11(121808)**
Matrix: **Aqueous**
Date Sampled: **12/17/2008 0940**
Date Received: **12/19/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2008 2014	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**24**		**0.50**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**51**		**0.50**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**26**		**0.50**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**370**		**0.50**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	52-138
Bromofluorobenzene		86	70-147
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Laboratory ID: **JL19016-018**
Description: **P1-SW12(121808)**
Matrix: **Aqueous**
Date Sampled: **12/17/2008 0935**
Date Received: **12/19/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2008 1334	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**2.4**		**0.50**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**16**		**0.50**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**33**		**0.50**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**88**		**0.50**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	52-138
Bromofluorobenzene		87	70-147
Toluene-d8		87	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Description: **TB-1(121708)**
Date Sampled: **12/19/2008 0800**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-019**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	12/29/2008 1418	DLB		92569

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	52-138
Bromofluorobenzene		84	70-147
Toluene-d8		88	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **ARCADIS U.S., Inc.**
Laboratory ID: **JL19016-020**
Description: **D-MW1 (121608)**
Matrix: **Aqueous**
Date Sampled: **12/16/2008 1745**
Date Received: **12/19/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	12/30/2008 1355	DLB		92605

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**300**		**25**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**2500**		**25**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**220**		**25**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**8800**		**25**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	52-138
Bromofluorobenzene		88	70-147
Toluene-d8		93	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

ICP-AES

Client: **ARCADIS U.S., Inc.**
Description: **D-MW1 (121608)**
Date Sampled: **12/16/2008 1745**
Date Received: **12/19/2008**

Laboratory ID: **JL19016-020**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	12/22/2008 2232	MNM	12/20/2008 1300	92089

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.010	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: JQ92339-001
Batch: 92339
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	12/24/2008 0100
Benzene	ND		1	0.50	ug/L	12/24/2008 0100
Bromodichloromethane	ND		1	0.50	ug/L	12/24/2008 0100
Bromoform	ND		1	0.50	ug/L	12/24/2008 0100
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	12/24/2008 0100
2-Butanone (MEK)	ND		1	10	ug/L	12/24/2008 0100
Carbon disulfide	ND		1	0.50	ug/L	12/24/2008 0100
Carbon tetrachloride	ND		1	0.50	ug/L	12/24/2008 0100
Chlorobenzene	ND		1	0.50	ug/L	12/24/2008 0100
Chloroethane	ND		1	0.50	ug/L	12/24/2008 0100
Chloroform	ND		1	0.50	ug/L	12/24/2008 0100
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	12/24/2008 0100
Cyclohexane	ND		1	0.50	ug/L	12/24/2008 0100
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	12/24/2008 0100
Dibromochloromethane	ND		1	0.50	ug/L	12/24/2008 0100
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	12/24/2008 0100
1,2-Dichlorobenzene	ND		1	0.50	ug/L	12/24/2008 0100
1,4-Dichlorobenzene	ND		1	0.50	ug/L	12/24/2008 0100
1,3-Dichlorobenzene	ND		1	0.50	ug/L	12/24/2008 0100
Dichlorodifluoromethane	ND		1	0.50	ug/L	12/24/2008 0100
1,2-Dichloroethane	ND		1	0.50	ug/L	12/24/2008 0100
1,1-Dichloroethane	ND		1	0.50	ug/L	12/24/2008 0100
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	12/24/2008 0100
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	12/24/2008 0100
1,1-Dichloroethene	ND		1	0.50	ug/L	12/24/2008 0100
1,2-Dichloropropane	ND		1	0.50	ug/L	12/24/2008 0100
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	12/24/2008 0100
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	12/24/2008 0100
Ethylbenzene	ND		1	0.50	ug/L	12/24/2008 0100
2-Hexanone	ND		1	10	ug/L	12/24/2008 0100
Isopropylbenzene	ND		1	0.50	ug/L	12/24/2008 0100
Methyl acetate	ND		1	1.0	ug/L	12/24/2008 0100
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	ug/L	12/24/2008 0100
4-Methyl-2-pentanone	ND		1	10	ug/L	12/24/2008 0100
Methylcyclohexane	ND		1	5.0	ug/L	12/24/2008 0100
Methylene chloride	ND		1	0.50	ug/L	12/24/2008 0100
Styrene	ND		1	0.50	ug/L	12/24/2008 0100
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	12/24/2008 0100
Tetrachloroethene	ND		1	0.50	ug/L	12/24/2008 0100
Toluene	ND		1	0.50	ug/L	12/24/2008 0100
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	0.50	ug/L	12/24/2008 0100
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	12/24/2008 0100
1,1,1-Trichloroethane	ND		1	0.50	ug/L	12/24/2008 0100
1,1,2-Trichloroethane	ND		1	0.50	ug/L	12/24/2008 0100

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: JQ92339-001
Batch: 92339
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	0.50	ug/L	12/24/2008 0100
Trichlorofluoromethane	ND		1	0.50	ug/L	12/24/2008 0100
Vinyl chloride	ND		1	0.50	ug/L	12/24/2008 0100
Xylenes (total)	ND		1	0.50	ug/L	12/24/2008 0100

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-147
1,2-Dichloroethane-d4		108	52-138
Toluene-d8		98	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: JQ92339-002
Batch: 92339
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	98		1	98	46-153	12/23/2008 2334
Benzene	50	48		1	96	70-130	12/23/2008 2334
Bromodichloromethane	50	55		1	109	70-130	12/23/2008 2334
Bromoform	50	62		1	125	70-130	12/23/2008 2334
Bromomethane (Methyl bromide)	50	58		1	115	60-140	12/23/2008 2334
2-Butanone (MEK)	100	97		1	97	60-140	12/23/2008 2334
Carbon disulfide	50	41		1	82	60-140	12/23/2008 2334
Carbon tetrachloride	50	62		1	124	70-130	12/23/2008 2334
Chlorobenzene	50	51		1	102	70-130	12/23/2008 2334
Chloroethane	50	52		1	105	42-163	12/23/2008 2334
Chloroform	50	50		1	100	70-130	12/23/2008 2334
Chloromethane (Methyl chloride)	50	54		1	108	20-158	12/23/2008 2334
Cyclohexane	50	44		1	88	70-130	12/23/2008 2334
1,2-Dibromo-3-chloropropane (DBCP)	50	59		1	117	70-130	12/23/2008 2334
Dibromochloromethane	50	58		1	115	70-130	12/23/2008 2334
1,2-Dibromoethane (EDB)	50	51		1	103	70-130	12/23/2008 2334
1,2-Dichlorobenzene	50	52		1	103	70-130	12/23/2008 2334
1,4-Dichlorobenzene	50	52		1	104	70-130	12/23/2008 2334
1,3-Dichlorobenzene	50	52		1	105	70-130	12/23/2008 2334
Dichlorodifluoromethane	50	63		1	126	60-140	12/23/2008 2334
1,2-Dichloroethane	50	57		1	113	70-130	12/23/2008 2334
1,1-Dichloroethane	50	49		1	98	70-130	12/23/2008 2334
cis-1,2-Dichloroethene	50	47		1	95	70-130	12/23/2008 2334
trans-1,2-Dichloroethene	50	50		1	100	70-130	12/23/2008 2334
1,1-Dichloroethene	50	49		1	98	70-130	12/23/2008 2334
1,2-Dichloropropane	50	44		1	89	70-130	12/23/2008 2334
trans-1,3-Dichloropropene	50	56		1	112	70-130	12/23/2008 2334
cis-1,3-Dichloropropene	50	52		1	105	70-130	12/23/2008 2334
Ethylbenzene	50	50		1	100	70-130	12/23/2008 2334
2-Hexanone	100	97		1	97	60-140	12/23/2008 2334
Isopropylbenzene	50	54		1	108	70-130	12/23/2008 2334
Methyl acetate	50	48		1	95	15-128	12/23/2008 2334
Methyl tertiary butyl ether (MTBE)	50	53		1	105	70-130	12/23/2008 2334
4-Methyl-2-pentanone	100	94		1	94	60-140	12/23/2008 2334
Methylcyclohexane	50	48		1	97	70-130	12/23/2008 2334
Methylene chloride	50	46		1	93	70-130	12/23/2008 2334
Styrene	50	52		1	104	70-130	12/23/2008 2334
1,1,2,2-Tetrachloroethane	50	49		1	98	70-130	12/23/2008 2334
Tetrachloroethene	50	53		1	106	70-130	12/23/2008 2334
Toluene	50	50		1	99	70-130	12/23/2008 2334
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	51		1	101	70-130	12/23/2008 2334
1,2,4-Trichlorobenzene	50	53		1	106	70-130	12/23/2008 2334
1,1,1-Trichloroethane	50	54		1	109	70-130	12/23/2008 2334
1,1,2-Trichloroethane	50	49		1	98	70-130	12/23/2008 2334

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: JQ92339-002
Batch: 92339
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	52		1	104	70-130	12/23/2008 2334
Trichlorofluoromethane	50	60		1	120	60-140	12/23/2008 2334
Vinyl chloride	50	53		1	105	60-140	12/23/2008 2334
Xylenes (total)	100	100		1	101	70-130	12/23/2008 2334

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		107	70-147
1,2-Dichloroethane-d4		116	52-138
Toluene-d8		100	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: JQ92339-003
Batch: 92339
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	92		1	92	5.6	46-153	20	12/23/2008 2355
Benzene	50	49		1	98	2.3	70-130	20	12/23/2008 2355
Bromodichloromethane	50	56		1	113	3.2	70-130	20	12/23/2008 2355
Bromoform	50	60		1	120	3.6	70-130	20	12/23/2008 2355
Bromomethane (Methyl bromide)	50	59		1	118	2.7	60-140	20	12/23/2008 2355
2-Butanone (MEK)	100	100		1	101	4.2	60-140	20	12/23/2008 2355
Carbon disulfide	50	42		1	84	2.3	60-140	20	12/23/2008 2355
Carbon tetrachloride	50	63		1	126	1.0	70-130	20	12/23/2008 2355
Chlorobenzene	50	51		1	102	0.23	70-130	20	12/23/2008 2355
Chloroethane	50	52		1	105	0.019	42-163	20	12/23/2008 2355
Chloroform	50	50		1	100	0.60	70-130	20	12/23/2008 2355
Chloromethane (Methyl chloride)	50	47		1	94	15	20-158	20	12/23/2008 2355
Cyclohexane	50	46		1	92	4.3	70-130	20	12/23/2008 2355
1,2-Dibromo-3-chloropropane (DBCP)	50	61		1	121	3.2	70-130	20	12/23/2008 2355
Dibromochloromethane	50	58		1	116	0.92	70-130	20	12/23/2008 2355
1,2-Dibromoethane (EDB)	50	52		1	105	1.9	70-130	20	12/23/2008 2355
1,2-Dichlorobenzene	50	53		1	107	3.3	70-130	20	12/23/2008 2355
1,4-Dichlorobenzene	50	52		1	104	0.16	70-130	20	12/23/2008 2355
1,3-Dichlorobenzene	50	53		1	107	1.7	70-130	20	12/23/2008 2355
Dichlorodifluoromethane	50	61		1	122	3.4	60-140	20	12/23/2008 2355
1,2-Dichloroethane	50	57		1	113	0.093	70-130	20	12/23/2008 2355
1,1-Dichloroethane	50	50		1	100	1.8	70-130	20	12/23/2008 2355
cis-1,2-Dichloroethene	50	48		1	97	2.1	70-130	20	12/23/2008 2355
trans-1,2-Dichloroethene	50	49		1	98	1.0	70-130	20	12/23/2008 2355
1,1-Dichloroethene	50	49		1	98	0.10	70-130	20	12/23/2008 2355
1,2-Dichloropropane	50	47		1	93	4.6	70-130	20	12/23/2008 2355
trans-1,3-Dichloropropene	50	56		1	111	0.44	70-130	20	12/23/2008 2355
cis-1,3-Dichloropropene	50	53		1	107	1.9	70-130	20	12/23/2008 2355
Ethylbenzene	50	51		1	102	1.2	70-130	20	12/23/2008 2355
2-Hexanone	100	94		1	94	3.0	60-140	20	12/23/2008 2355
Isopropylbenzene	50	56		1	111	3.2	70-130	20	12/23/2008 2355
Methyl acetate	50	48		1	95	0.0063	15-128	20	12/23/2008 2355
Methyl tertiary butyl ether (MTBE)	50	54		1	108	2.2	70-130	20	12/23/2008 2355
4-Methyl-2-pentanone	100	95		1	95	1.1	60-140	20	12/23/2008 2355
Methylcyclohexane	50	48		1	97	0.070	70-130	20	12/23/2008 2355
Methylene chloride	50	46		1	92	0.78	70-130	20	12/23/2008 2355
Styrene	50	52		1	105	0.63	70-130	20	12/23/2008 2355
1,1,2,2-Tetrachloroethane	50	50		1	101	3.2	70-130	20	12/23/2008 2355
Tetrachloroethene	50	53		1	106	0.25	70-130	20	12/23/2008 2355
Toluene	50	49		1	99	0.19	70-130	20	12/23/2008 2355
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	53		1	106	4.9	70-130	20	12/23/2008 2355
1,2,4-Trichlorobenzene	50	54		1	109	2.7	70-130	20	12/23/2008 2355
1,1,1-Trichloroethane	50	56		1	113	3.3	70-130	20	12/23/2008 2355
1,1,2-Trichloroethane	50	50		1	101	2.8	70-130	20	12/23/2008 2355

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: JQ92339-003
Batch: 92339
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	54		1	108	3.6	70-130	20	12/23/2008 2355
Trichlorofluoromethane	50	61		1	122	1.2	60-140	20	12/23/2008 2355
Vinyl chloride	50	54		1	108	2.0	60-140	20	12/23/2008 2355
Xylenes (total)	100	100		1	100	0.67	70-130	20	12/23/2008 2355

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		105	70-147
1,2-Dichloroethane-d4		113	52-138
Toluene-d8		100	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: JQ92569-001
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	12/29/2008 1213
Benzene	ND		1	0.50	ug/L	12/29/2008 1213
Bromodichloromethane	ND		1	0.50	ug/L	12/29/2008 1213
Bromoform	ND		1	0.50	ug/L	12/29/2008 1213
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	12/29/2008 1213
2-Butanone (MEK)	ND		1	10	ug/L	12/29/2008 1213
Carbon disulfide	ND		1	0.50	ug/L	12/29/2008 1213
Carbon tetrachloride	ND		1	0.50	ug/L	12/29/2008 1213
Chlorobenzene	ND		1	0.50	ug/L	12/29/2008 1213
Chloroethane	ND		1	0.50	ug/L	12/29/2008 1213
Chloroform	ND		1	0.50	ug/L	12/29/2008 1213
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	12/29/2008 1213
Cyclohexane	ND		1	0.50	ug/L	12/29/2008 1213
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	12/29/2008 1213
Dibromochloromethane	ND		1	0.50	ug/L	12/29/2008 1213
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	12/29/2008 1213
1,4-Dichlorobenzene	ND		1	0.50	ug/L	12/29/2008 1213
1,2-Dichlorobenzene	ND		1	0.50	ug/L	12/29/2008 1213
1,3-Dichlorobenzene	ND		1	0.50	ug/L	12/29/2008 1213
Dichlorodifluoromethane	ND		1	0.50	ug/L	12/29/2008 1213
1,2-Dichloroethane	ND		1	0.50	ug/L	12/29/2008 1213
1,1-Dichloroethane	ND		1	0.50	ug/L	12/29/2008 1213
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	12/29/2008 1213
1,1-Dichloroethene	ND		1	0.50	ug/L	12/29/2008 1213
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	12/29/2008 1213
1,2-Dichloropropane	ND		1	0.50	ug/L	12/29/2008 1213
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	12/29/2008 1213
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	12/29/2008 1213
Ethylbenzene	ND		1	0.50	ug/L	12/29/2008 1213
2-Hexanone	ND		1	10	ug/L	12/29/2008 1213
Isopropylbenzene	ND		1	0.50	ug/L	12/29/2008 1213
Methyl acetate	ND		1	1.0	ug/L	12/29/2008 1213
Methyl tertiary butyl ether (MTBE)	ND		1	0.50	ug/L	12/29/2008 1213
4-Methyl-2-pentanone	ND		1	10	ug/L	12/29/2008 1213
Methylcyclohexane	ND		1	5.0	ug/L	12/29/2008 1213
Methylene chloride	ND		1	0.50	ug/L	12/29/2008 1213
Styrene	ND		1	0.50	ug/L	12/29/2008 1213
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	12/29/2008 1213
Tetrachloroethene	ND		1	0.50	ug/L	12/29/2008 1213
Toluene	ND		1	0.50	ug/L	12/29/2008 1213
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	0.50	ug/L	12/29/2008 1213
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	12/29/2008 1213
1,1,1-Trichloroethane	ND		1	0.50	ug/L	12/29/2008 1213
1,1,2-Trichloroethane	ND		1	0.50	ug/L	12/29/2008 1213

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: JQ92569-001
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Trichloroethene	ND		1	0.50	ug/L	12/29/2008 1213
Trichlorofluoromethane	ND		1	0.50	ug/L	12/29/2008 1213
Vinyl chloride	ND		1	0.50	ug/L	12/29/2008 1213
Xylenes (total)	ND		1	0.50	ug/L	12/29/2008 1213

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		83	70-147
1,2-Dichloroethane-d4		87	52-138
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: JQ92569-002
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	140		1	138	46-153	12/29/2008 1105
Benzene	50	47		1	94	70-130	12/29/2008 1105
Bromodichloromethane	50	49		1	98	70-130	12/29/2008 1105
Bromoform	50	51		1	103	70-130	12/29/2008 1105
Bromomethane (Methyl bromide)	50	45		1	89	60-140	12/29/2008 1105
2-Butanone (MEK)	100	97		1	97	60-140	12/29/2008 1105
Carbon disulfide	50	44		1	88	60-140	12/29/2008 1105
Carbon tetrachloride	50	49		1	98	70-130	12/29/2008 1105
Chlorobenzene	50	49		1	98	70-130	12/29/2008 1105
Chloroethane	50	55		1	110	42-163	12/29/2008 1105
Chloroform	50	47		1	95	70-130	12/29/2008 1105
Chloromethane (Methyl chloride)	50	53		1	106	20-158	12/29/2008 1105
Cyclohexane	50	45		1	90	70-130	12/29/2008 1105
1,2-Dibromo-3-chloropropane (DBCP)	50	52		1	103	70-130	12/29/2008 1105
Dibromochloromethane	50	50		1	100	70-130	12/29/2008 1105
1,2-Dibromoethane (EDB)	50	49		1	98	70-130	12/29/2008 1105
1,4-Dichlorobenzene	50	48		1	95	70-130	12/29/2008 1105
1,2-Dichlorobenzene	50	48		1	96	70-130	12/29/2008 1105
1,3-Dichlorobenzene	50	48		1	95	70-130	12/29/2008 1105
Dichlorodifluoromethane	50	55		1	109	60-140	12/29/2008 1105
1,2-Dichloroethane	50	51		1	102	70-130	12/29/2008 1105
1,1-Dichloroethane	50	49		1	98	70-130	12/29/2008 1105
cis-1,2-Dichloroethene	50	48		1	97	70-130	12/29/2008 1105
1,1-Dichloroethene	50	48		1	96	70-130	12/29/2008 1105
trans-1,2-Dichloroethene	50	48		1	96	70-130	12/29/2008 1105
1,2-Dichloropropane	50	47		1	95	70-130	12/29/2008 1105
cis-1,3-Dichloropropene	50	50		1	101	70-130	12/29/2008 1105
trans-1,3-Dichloropropene	50	47		1	94	70-130	12/29/2008 1105
Ethylbenzene	50	51		1	102	70-130	12/29/2008 1105
2-Hexanone	100	100		1	102	60-140	12/29/2008 1105
Isopropylbenzene	50	51		1	102	70-130	12/29/2008 1105
Methyl acetate	50	50		1	100	15-128	12/29/2008 1105
Methyl tertiary butyl ether (MTBE)	50	52		1	104	70-130	12/29/2008 1105
4-Methyl-2-pentanone	100	99		1	99	60-140	12/29/2008 1105
Methylcyclohexane	50	49		1	98	70-130	12/29/2008 1105
Methylene chloride	50	42		1	84	70-130	12/29/2008 1105
Styrene	50	49		1	99	70-130	12/29/2008 1105
1,1,2,2-Tetrachloroethane	50	38		1	77	70-130	12/29/2008 1105
Tetrachloroethene	50	50		1	101	70-130	12/29/2008 1105
Toluene	50	47		1	95	70-130	12/29/2008 1105
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	47		1	93	70-130	12/29/2008 1105
1,2,4-Trichlorobenzene	50	50		1	100	70-130	12/29/2008 1105
1,1,1-Trichloroethane	50	48		1	96	70-130	12/29/2008 1105
1,1,2-Trichloroethane	50	48		1	97	70-130	12/29/2008 1105

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: JQ92569-002
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	50	55		1	110	70-130	12/29/2008 1105
Trichlorofluoromethane	50	56		1	113	60-140	12/29/2008 1105
Vinyl chloride	50	54		1	108	60-140	12/29/2008 1105
Xylenes (total)	100	100		1	102	70-130	12/29/2008 1105

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		87	70-147
1,2-Dichloroethane-d4		95	52-138
Toluene-d8		86	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: JQ92569-003
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	100	130		1	130	6.3	46-153	20	12/29/2008 1127
Benzene	50	50		1	99	4.8	70-130	20	12/29/2008 1127
Bromodichloromethane	50	51		1	103	4.3	70-130	20	12/29/2008 1127
Bromoform	50	54		1	109	5.7	70-130	20	12/29/2008 1127
Bromomethane (Methyl bromide)	50	47		1	95	6.0	60-140	20	12/29/2008 1127
2-Butanone (MEK)	100	92		1	92	5.3	60-140	20	12/29/2008 1127
Carbon disulfide	50	55	+	1	110	22	60-140	20	12/29/2008 1127
Carbon tetrachloride	50	50		1	100	2.2	70-130	20	12/29/2008 1127
Chlorobenzene	50	54		1	108	9.6	70-130	20	12/29/2008 1127
Chloroethane	50	59		1	117	6.2	42-163	20	12/29/2008 1127
Chloroform	50	48		1	96	0.56	70-130	20	12/29/2008 1127
Chloromethane (Methyl chloride)	50	56		1	111	4.7	20-158	20	12/29/2008 1127
Cyclohexane	50	51		1	102	12	70-130	20	12/29/2008 1127
1,2-Dibromo-3-chloropropane (DBCP)	50	54		1	108	4.4	70-130	20	12/29/2008 1127
Dibromochloromethane	50	54		1	108	7.8	70-130	20	12/29/2008 1127
1,2-Dibromoethane (EDB)	50	53		1	106	7.9	70-130	20	12/29/2008 1127
1,4-Dichlorobenzene	50	51		1	102	6.5	70-130	20	12/29/2008 1127
1,2-Dichlorobenzene	50	52		1	104	7.8	70-130	20	12/29/2008 1127
1,3-Dichlorobenzene	50	52		1	105	9.3	70-130	20	12/29/2008 1127
Dichlorodifluoromethane	50	57		1	113	3.6	60-140	20	12/29/2008 1127
1,2-Dichloroethane	50	48		1	97	5.7	70-130	20	12/29/2008 1127
1,1-Dichloroethane	50	50		1	101	3.4	70-130	20	12/29/2008 1127
cis-1,2-Dichloroethene	50	50		1	100	2.6	70-130	20	12/29/2008 1127
1,1-Dichloroethene	50	51		1	102	5.6	70-130	20	12/29/2008 1127
trans-1,2-Dichloroethene	50	49		1	98	2.6	70-130	20	12/29/2008 1127
1,2-Dichloropropane	50	50		1	100	5.2	70-130	20	12/29/2008 1127
cis-1,3-Dichloropropene	50	55		1	111	9.2	70-130	20	12/29/2008 1127
trans-1,3-Dichloropropene	50	52		1	105	11	70-130	20	12/29/2008 1127
Ethylbenzene	50	57		1	113	11	70-130	20	12/29/2008 1127
2-Hexanone	100	110		1	111	8.4	60-140	20	12/29/2008 1127
Isopropylbenzene	50	56		1	112	9.2	70-130	20	12/29/2008 1127
Methyl acetate	50	45		1	89	11	15-128	20	12/29/2008 1127
Methyl tertiary butyl ether (MTBE)	50	52		1	104	0.12	70-130	20	12/29/2008 1127
4-Methyl-2-pentanone	100	100		1	102	3.8	60-140	20	12/29/2008 1127
Methylcyclohexane	50	51		1	102	4.5	70-130	20	12/29/2008 1127
Methylene chloride	50	44		1	88	4.9	70-130	20	12/29/2008 1127
Styrene	50	53		1	106	7.4	70-130	20	12/29/2008 1127
1,1,2,2-Tetrachloroethane	50	51	+	1	102	28	70-130	20	12/29/2008 1127
Tetrachloroethene	50	57		1	114	12	70-130	20	12/29/2008 1127
Toluene	50	52		1	104	9.5	70-130	20	12/29/2008 1127
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	50		1	101	7.7	70-130	20	12/29/2008 1127
1,2,4-Trichlorobenzene	50	56		1	111	11	70-130	20	12/29/2008 1127
1,1,1-Trichloroethane	50	48		1	97	1.6	70-130	20	12/29/2008 1127
1,1,2-Trichloroethane	50	54		1	109	12	70-130	20	12/29/2008 1127

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: JQ92569-003
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	50	50		1	101	9.1	70-130	20	12/29/2008 1127
Trichlorofluoromethane	50	57		1	114	0.60	60-140	20	12/29/2008 1127
Vinyl chloride	50	55		1	110	2.0	60-140	20	12/29/2008 1127
Xylenes (total)	100	110		1	112	9.7	70-130	20	12/29/2008 1127

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		87	70-147
1,2-Dichloroethane-d4		81	52-138
Toluene-d8		89	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: JL19016-001MS
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	ND	100	140	N	1	137	80-130	12/29/2008 2036
Benzene	3.3	50	53		1	99	70-130	12/29/2008 2036
Bromodichloromethane	ND	50	53		1	106	70-130	12/29/2008 2036
Bromoform	ND	50	50		1	100	70-130	12/29/2008 2036
Bromomethane (Methyl bromide)	ND	50	48		1	95	60-140	12/29/2008 2036
2-Butanone (MEK)	ND	100	96		1	96	60-140	12/29/2008 2036
Carbon disulfide	ND	50	43		1	86	60-140	12/29/2008 2036
Carbon tetrachloride	ND	50	52		1	103	70-130	12/29/2008 2036
Chlorobenzene	ND	50	54		1	108	70-130	12/29/2008 2036
Chloroethane	ND	50	58		1	117	42-163	12/29/2008 2036
Chloroform	ND	50	48		1	97	70-130	12/29/2008 2036
Chloromethane (Methyl chloride)	ND	50	50		1	100	20-158	12/29/2008 2036
Cyclohexane	ND	50	44		1	89	70-130	12/29/2008 2036
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	58		1	115	70-130	12/29/2008 2036
Dibromochloromethane	ND	50	54		1	109	70-130	12/29/2008 2036
1,2-Dibromoethane (EDB)	ND	50	54		1	109	70-130	12/29/2008 2036
1,4-Dichlorobenzene	ND	50	51		1	102	70-130	12/29/2008 2036
1,2-Dichlorobenzene	ND	50	53		1	106	70-130	12/29/2008 2036
1,3-Dichlorobenzene	ND	50	51		1	102	70-130	12/29/2008 2036
Dichlorodifluoromethane	ND	50	56		1	113	60-140	12/29/2008 2036
1,2-Dichloroethane	ND	50	52		1	105	70-130	12/29/2008 2036
1,1-Dichloroethane	ND	50	49		1	98	70-130	12/29/2008 2036
cis-1,2-Dichloroethene	ND	50	48		1	97	70-130	12/29/2008 2036
1,1-Dichloroethene	ND	50	49		1	97	70-130	12/29/2008 2036
trans-1,2-Dichloroethene	ND	50	47		1	94	70-130	12/29/2008 2036
1,2-Dichloropropane	ND	50	50		1	100	70-130	12/29/2008 2036
cis-1,3-Dichloropropene	ND	50	52		1	104	70-130	12/29/2008 2036
trans-1,3-Dichloropropene	ND	50	48		1	96	70-130	12/29/2008 2036
Ethylbenzene	ND	50	55		1	110	70-130	12/29/2008 2036
2-Hexanone	ND	100	120		1	117	60-140	12/29/2008 2036
Isopropylbenzene	ND	50	54		1	108	70-130	12/29/2008 2036
Methyl acetate	ND	50	41		1	82	15-128	12/29/2008 2036
Methyl tertiary butyl ether (MTBE)	ND	50	50		1	101	70-130	12/29/2008 2036
4-Methyl-2-pentanone	ND	100	110		1	106	60-140	12/29/2008 2036
Methylcyclohexane	ND	50	49		1	98	70-130	12/29/2008 2036
Methylene chloride	ND	50	42		1	83	70-130	12/29/2008 2036
Styrene	ND	50	47		1	95	70-130	12/29/2008 2036
1,1,2,2-Tetrachloroethane	ND	50	54		1	109	70-130	12/29/2008 2036
Tetrachloroethene	ND	50	55		1	110	70-130	12/29/2008 2036
Toluene	ND	50	53		1	106	70-130	12/29/2008 2036
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	48		1	96	70-130	12/29/2008 2036
1,2,4-Trichlorobenzene	ND	50	55		1	109	70-130	12/29/2008 2036
1,1,1-Trichloroethane	ND	50	52		1	103	70-130	12/29/2008 2036
1,1,2-Trichloroethane	ND	50	54		1	108	70-130	12/29/2008 2036

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: JL19016-001MS
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Trichloroethene	ND	50	51		1	102	70-130	12/29/2008 2036
Trichlorofluoromethane	ND	50	61		1	121	60-140	12/29/2008 2036
Vinyl chloride	ND	50	53		1	106	60-140	12/29/2008 2036
Xylenes (total)	ND	100	110		1	109	70-130	12/29/2008 2036

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		89	70-147
1,2-Dichloroethane-d4		88	52-138
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: JL19016-001MD
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acetone	ND	100	160	N	1	158	14	80-130	20	12/29/2008 2058
Benzene	3.3	50	52		1	97	2.1	70-130	20	12/29/2008 2058
Bromodichloromethane	ND	50	52		1	103	2.6	70-130	20	12/29/2008 2058
Bromoform	ND	50	48		1	96	3.9	70-130	20	12/29/2008 2058
Bromomethane (Methyl bromide)	ND	50	50		1	100	4.3	60-140	20	12/29/2008 2058
2-Butanone (MEK)	ND	100	110		1	108	11	60-140	20	12/29/2008 2058
Carbon disulfide	ND	50	44		1	87	1.3	60-140	20	12/29/2008 2058
Carbon tetrachloride	ND	50	50		1	100	2.7	70-130	20	12/29/2008 2058
Chlorobenzene	ND	50	51		1	103	5.1	70-130	20	12/29/2008 2058
Chloroethane	ND	50	60		1	120	3.0	42-163	20	12/29/2008 2058
Chloroform	ND	50	48		1	97	0.097	70-130	20	12/29/2008 2058
Chloromethane (Methyl chloride)	ND	50	54		1	109	8.7	20-158	20	12/29/2008 2058
Cyclohexane	ND	50	44		1	89	0.28	70-130	20	12/29/2008 2058
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	57		1	113	1.8	70-130	20	12/29/2008 2058
Dibromochloromethane	ND	50	51		1	102	6.6	70-130	20	12/29/2008 2058
1,2-Dibromoethane (EDB)	ND	50	52		1	104	5.3	70-130	20	12/29/2008 2058
1,4-Dichlorobenzene	ND	50	49		1	97	4.1	70-130	20	12/29/2008 2058
1,2-Dichlorobenzene	ND	50	51		1	101	4.1	70-130	20	12/29/2008 2058
1,3-Dichlorobenzene	ND	50	49		1	98	4.5	70-130	20	12/29/2008 2058
Dichlorodifluoromethane	ND	50	55		1	110	2.7	60-140	20	12/29/2008 2058
1,2-Dichloroethane	ND	50	53		1	105	0.78	70-130	20	12/29/2008 2058
1,1-Dichloroethane	ND	50	50		1	100	2.8	70-130	20	12/29/2008 2058
cis-1,2-Dichloroethene	ND	50	49		1	99	1.6	70-130	20	12/29/2008 2058
1,1-Dichloroethene	ND	50	48		1	97	0.46	70-130	20	12/29/2008 2058
trans-1,2-Dichloroethene	ND	50	48		1	96	2.2	70-130	20	12/29/2008 2058
1,2-Dichloropropane	ND	50	50		1	99	1.1	70-130	20	12/29/2008 2058
cis-1,3-Dichloropropene	ND	50	50		1	101	3.5	70-130	20	12/29/2008 2058
trans-1,3-Dichloropropene	ND	50	47		1	93	2.8	70-130	20	12/29/2008 2058
Ethylbenzene	ND	50	53		1	107	3.5	70-130	20	12/29/2008 2058
2-Hexanone	ND	100	110		1	114	2.5	60-140	20	12/29/2008 2058
Isopropylbenzene	ND	50	52		1	105	3.4	70-130	20	12/29/2008 2058
Methyl acetate	ND	50	40		1	81	1.0	15-128	20	12/29/2008 2058
Methyl tertiary butyl ether (MTBE)	ND	50	52		1	104	2.5	70-130	20	12/29/2008 2058
4-Methyl-2-pentanone	ND	100	110		1	112	5.0	60-140	20	12/29/2008 2058
Methylcyclohexane	ND	50	48		1	96	3.0	70-130	20	12/29/2008 2058
Methylene chloride	ND	50	42		1	85	2.0	70-130	20	12/29/2008 2058
Styrene	ND	50	43		1	87	8.9	70-130	20	12/29/2008 2058
1,1,2,2-Tetrachloroethane	ND	50	51		1	102	6.7	70-130	20	12/29/2008 2058
Tetrachloroethene	ND	50	52		1	104	6.3	70-130	20	12/29/2008 2058
Toluene	ND	50	51		1	101	4.6	70-130	20	12/29/2008 2058
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	50	47		1	93	2.6	70-130	20	12/29/2008 2058
1,2,4-Trichlorobenzene	ND	50	52		1	104	4.5	70-130	20	12/29/2008 2058
1,1,1-Trichloroethane	ND	50	51		1	101	2.1	70-130	20	12/29/2008 2058
1,1,2-Trichloroethane	ND	50	52		1	105	3.5	70-130	20	12/29/2008 2058

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: JL19016-001MD
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Trichloroethene	ND	50	50		1	101	0.72	70-130	20	12/29/2008 2058
Trichlorofluoromethane	ND	50	59		1	118	2.7	60-140	20	12/29/2008 2058
Vinyl chloride	ND	50	54		1	109	2.4	60-140	20	12/29/2008 2058
Xylenes (total)	ND	100	100		1	102	6.0	70-130	20	12/29/2008 2058

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		87	70-147
1,2-Dichloroethane-d4		90	52-138
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MS

Sample ID: JL19016-014MS
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	88	250	310		5	90	70-130	12/29/2008 2120
Ethylbenzene	180	250	400		5	86	70-130	12/29/2008 2120
Toluene	17	250	260		5	96	70-130	12/29/2008 2120
Xylenes (total)	1500	500	1600	N	5	34	70-130	12/29/2008 2120

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		86	70-147
1,2-Dichloroethane-d4		86	52-138
Toluene-d8		89	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MSD

Sample ID: JL19016-014MD
Batch: 92569
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	88	250	310		5	89	0.97	70-130	20	12/29/2008 2142
Ethylbenzene	180	250	390		5	82	2.4	70-130	20	12/29/2008 2142
Toluene	17	250	260		5	95	0.86	70-130	20	12/29/2008 2142
Xylenes (total)	1500	500	1600	N	5	30	1.3	70-130	20	12/29/2008 2142

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		86	70-147
1,2-Dichloroethane-d4		94	52-138
Toluene-d8		90	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - MB

Sample ID: JQ92605-001
Batch: 92605
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Benzene	ND		1	0.50	ug/L	12/30/2008 0912
Ethylbenzene	ND		1	0.50	ug/L	12/30/2008 0912
Toluene	ND		1	0.50	ug/L	12/30/2008 0912
Xylenes (total)	ND		1	0.50	ug/L	12/30/2008 0912

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		86	70-147
1,2-Dichloroethane-d4		98	52-138
Toluene-d8		91	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCS

Sample ID: JQ92605-002
Batch: 92605
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Benzene	50	47		1	95	70-130	12/30/2008 0745
Ethylbenzene	50	50		1	100	70-130	12/30/2008 0745
Toluene	50	50		1	99	70-130	12/30/2008 0745
Xylenes (total)	100	100		1	102	70-130	12/30/2008 0745

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		90	70-147
1,2-Dichloroethane-d4		94	52-138
Toluene-d8		93	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: JQ92605-003
Batch: 92605
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Benzene	50	48		1	97	2.4	70-130	20	12/30/2008 0807
Ethylbenzene	50	53		1	105	5.1	70-130	20	12/30/2008 0807
Toluene	50	52		1	104	4.3	70-130	20	12/30/2008 0807
Xylenes (total)	100	100		1	106	3.1	70-130	20	12/30/2008 0807

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		88	70-147
1,2-Dichloroethane-d4		84	52-138
Toluene-d8		92	76-125

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - MB

Sample ID: JQ92089-001
Batch: 92089
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/20/2008 1300

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Lead	ND		1	0.010	mg/L	12/22/2008 2142

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCS

Sample ID: JQ92089-002
Batch: 92089
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/20/2008 1300

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Lead	0.40	0.40		1	99	80-120	12/22/2008 2146

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

ICP-AES - LCSD

Sample ID: JQ92089-003
Batch: 92089
Analytical Method: 6010B

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 12/20/2008 1300

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Lead	0.40	0.39		1	98	0.61	80-120	20	12/22/2008 2150

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N - Recovery is out of criteria
+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

SHEALY **Chain of Custody Record**

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 86478

Client: ARCADIS
Address: 801 Corporate Center Drive, Suite 300
City: Raleigh | State: NC | Zip Code: 27607
Project Name: ~~Hunter Stewart~~ Fort Stewart HAAF
Project No.: GP08HAFS, ~~H18A~~ H18A, DGDF1
P.O. No.:
Report to Contact: Chuck Bertz
Sampler's Signature: X
Printed Name: Danny Dorminy
Telephone No. / Fax No. / E-mail: ~~912~~ 919-854-9812
Waybill No.:
Quote No.:
Page 1 of 1
Analysis (Attach list if more space is needed.)
Lot No.: JL19066
Remarks / Cooler I.D.:

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Composite	Grab	Aqueous	Solid	Non-Aqueous	Oil	Other	Other	Other	Other	Other	Other	VOCs (SW8260)										
P-HW2 (121608) MS/MSD	12/16/8	1640	G	X							9				✓										
P-HGL (121608)	12/16/8	1533	G	X							3				✓										
P-HW3 (121608)	12/16/8	1436	G	X							3				✓										
P-HW1 (121608)	12/16/8	1235	G	X							3				✓										
P-HW4 (121608)	12/16/8	1112	G	X							3				✓										
P-HW5 (121608)	12/16/8	0950	G	X							3				✓										
~~FB-1 (121608)~~	12/16/08	0900	G	X							2				✓										

Erica Maddy 12/18/08

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown
Sample Disposal: ☐ Return to Client ☑ Disposal by Lab
Note: All samples are retained for six weeks from receipt unless other arrangements are made.
Turn Around Time Requested (Prior lab approval required for expedited TAT.): ☑ Standard ☐ Rush (Specify)
QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished by: Erica Maddy	12/18/08	12:00	1. Received by:		
2. Relinquished by:			2. Received by:		
3. Relinquished by: FEDEX	12-19-08	0960	3. Laboratory received by:	0940, 12-19-08	

Comments:
LAB USE ONLY: Received on Ice (Circle) Yes No Ice Pack TB
Receipt Temp. 2.9 °C

DISTRIBUTION: WHITE & YELLOW Return to laboratory with Sample(s); PINK Field/Client Copy

Document Number: F-AD-012 Effective Date: 08-01-08

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 6

Page 1 of 1
Replaces Date: 09/23/06
Effective Date: 05/29/07

Sample Receipt Checklist (SRC)

Client: Arcadis Cooler Inspected by/date: CEL 12/19/08 Lot #: JL19016

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Airborne Exp ☐ Other

Yes ☑	No ☐	NA ☐	1. Were custody seals present on the cooler?
Yes ☑	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt 2.9 °C / °C / °C / °C / °C / °C / °C / °C

Method: ☑ Temperature Blank ☐ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other: _____. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☑	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☐	No ☑	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☐	No ☑	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) with the SR # (number)

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Date 12/18/08 FedEx Tracking Number 865594007480

Sender's Name [illegible] Phone [illegible]

Company [illegible]

Address [illegible] Suite 400

City [illegible] State [illegible] ZIP [illegible]

Your Reference [illegible]

Corrective Action taken, if necessary:
Was client notified: Yes ☐ No ☐
SESI employee: _____
Comments: _____

SHEALY **Chain of Custody Record**

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 86479

ARCADIS

Client: 801 Corporate Center Drive	Report to Contact: Chuck Bertz	Telephone No. / Fax No. / E-mail: 919-854-9812	Quote No.
Address: Suite 300	Sampler's Signature: Holly English / [signature]	Waybill No.	Page 1 of 2
City: Raleigh State: NC Zip Code: 27607	Printed Name: Holly English / Anghavad Pagan	Analysis (Attach list if more space is needed.)	
Project Name: Fort Stewart / HAAF			
Project No.: GP08HAFS.H13A.NA1R2	P.O. No.		Lot No.: JL19016 ~~JL19017~~ SAM 12/19

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Collect. Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No. of Containers by Preservative Type: Unpres.	HCl	HNO3	NaOH	NaOH	5035 KIT	BTEX (SW8260B)	Remarks / Cooler I.D.
D-MW5R (121708)	12/17/08	1003	G	X					3				X	
D-MW6R (121708)		1121	G	X					3				X	
P1-MW1 (121708)		1645	G	X					3				X	
P1-MW18 (121708)		1145	G	X					3				X	
P1-MW19 (121708)		1540	G	X					3				X	
P1-MW22 (121708)		1015	G	X					3				X	
P1-MW23 (121708) MS/MSD		1355	G	X					9				X	
P1-MW2 (121808)	12/18/08	0848	G	X					3				X	
DUP-HAA13A2-1		1200	G	X					3				X	
P1-SW11 (121808)		0940	G	X					3				X	

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☑ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT): ☑ Standard ☐ Push (Specify)

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: [signature]	12/18/08	1200	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by: FEDEX	12-19-08	0940	3. Laboratory received by: [signature]	12-19-08	0940

Comments

LAB USE ONLY: Received on Ice (Circle) Yes No Ice Pack — Receipt Temp. 2.0 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); Pink-Field/Client Copy

Document Number: F-AD-012 Effective Date: 08-04-02

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 86483

ARCADIS

Client: 801 Corporate Center Drive	Report to Contact: Chuck Bertz	Telephone No. / Fax No. / E-mail: 919-854-9812	Quote No.
Address: Suite 300	Sampler's Signature: X Erica Maddox	Waybill No.	Page 2 of 2
City: Raleigh State: NC Zip Code: 27607	Printed Name: Erica Maddox	Analysis (Attach list if more space is needed.)	
Project Name: Fort Stewart/HAAF			
Project No.: GP08HAFS.H1A.N1R2	P.O. No.		Lot No. JL1G017 SAM 12/19

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Composite	Matrix: Aqueous	Matrix: Soil	Matrix: Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	NaOH	BTEX (SW8260B)	Remarks / Cooler I.D.
P1-SW12(121808)	12/18/08	0935	G	X						3			X	
TB-1(121708)	12/17/08	0800								2			X	

Erica Maddox

Possible Hazard Identification: X Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client X Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): X Standard ☐ Rush (Specify)

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Erica Maddox	12/18/08	1200	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by: FEDEX	12-19-08	0940	3. Laboratory received by: [signature]	12-19-08	0940

Comments

LAB USE ONLY
Received on Ice (Circle) Yes No Ice Pack
Receipt Temp. 2.0 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AU-012 Effective Date: 08-04-02

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 6

Page 1 of 1
Replaces Date: 09/22/06
Effective Date: 05/29/07

Sample Receipt Checklist (SRC)

JL19016

Client: Areadis Cooler Inspected by/date: ECC 12/19/08 Lot #: ~~JL19017~~ SAM 12/19

Means of receipt: ☐ SESI ☐ Client ☐ UPS ☑ FedEx ☐ Airborne Exp ☐ Other

Yes ☑	No ☐	NA ☐	1. Were custody seals present on the cooler?
Yes ☑	No ☐	NA ☐	2. If custody seals were present, were they intact and unbroken?

Cooler ID/temperature upon receipt 2.0 °C / °C / °C / °C / °C / °C / °C / °C

Method: ☑ Temperature Blank ☐ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.
Yes ☑	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☐	No ☑	NA ☐	5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐	NA ☐	6. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	7. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	8. Were tests to be performed listed on the COC or was quote # provided?
Yes ☑	No ☐	NA ☐	9. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	10. Did all container label information (ID, date, time) agree with COC?
Yes ☑	No ☐	NA ☐	11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐	NA ☐	12. Was adequate sample volume available?
Yes ☑	No ☐	NA ☐	13. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	14. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	15. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	16. Were bubbles present >"pea-size" (¼" or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	18. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) and toxicity (<0.1mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	20. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s)_____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4, HNO_3, HCl, NaOH) with the SR # (number)

Sample(s)_____ were received with bubbles >6 mm in diameter.

Sample(s)_____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s)_____ [illegible] and were analyzed by method 330.5.

Corrective Action taken, if necessary:
Was client notified: Yes ☐ No ☐
SESI employee:_____
Comments:

Date 12/18/08 FedEx Tracking Number 8655940024[illegible]
Sender's Name [illegible] Phone 770 431-[illegible]
Company [illegible]
Address [illegible] PACEO [illegible] PO [illegible] STE 400
City [illegible] State [illegible] Zip 30[illegible]
Your Internal Billing Reference GPORHAE: H13A NA1R2

SHEALY **Chain of Custody Record**

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 86481

ARCADIS

Client: 801 Corporate Center Drive	Report to Contact: Chuck Bertz	Telephone No. / Fax No. / E-mail: 919-854-9812	Quote No.
Address: Suite 300	Sampler's Signature: x Erica Maddy	Waybill No.	Page 1 of 3
City: Raleigh; State: NC; Zip Code: 27607	Printed Name: Erica Maddy	Analysis (Attach list if more space is needed.)	
Project Name: Fort Stewart / HAAF			
Project No.: GP08HAFS.H13A.NA1R1	R.O. No.		Lot No. JL19058

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCl	NaOH	NaOH/Zn	BTEX (SW8260B)	Lead (SW6010B)	Remarks / Cooler I.D.
D-MW1 (121608)	12/16/08	1745	G	X					1	3					
D-MW34 (121608)	12/16/08	1615	G	X					1	3					
D-MW36 (121608)	12/16/08	1825	G	X					1	3					
P1-MW11 (121608)	12/16/08	1615	G	X					1	3					
P1-MW12 (121608)	12/16/08	1840	G	X					1	3					
P1-MW13 (121608)	12/16/08	1640	G	X					1	3					
D-MW2 (121708)	12/17/08	1763	G	X					1	3					
D-MW8 (121708)	12/17/08	1420	G	X					1	3					
D-MW11 (121708)	12/17/08	1617	G	X					1	3					
D-MW12 (121708)	12/17/08	1416	G	X					1	3					

Possible Hazard Identification: ✓ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ✓ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT): ✓ Standard ☐ Rush (Specify)

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Erica Maddy	12/18/08	1200	1. Received by		
2. Relinquished by			2. Received by		
3. Relinquished by: FEDEX	12/19/08	0940	3. Laboratory received by: [signature]	12/19/08	0940

Comments

LAB USE ONLY: Received on Ice (Circle) Yes No Ice Pack TB Receipt Temp 3.2 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field Client Copy

Document Number: F-AC-012 Effective Date: 08-04-22

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APPENDIX D

Site Ranking Form

SITE RANKING FORM

Facility Name:	**Former Pumphouse #1 Site (Release #2)**	**Ranked by:**	**Maddox/Bostian**
Facility ID:	**9-025085*2** **County:** **Chatham**	**Date Ranked:**	**4/21/2009**

SOIL CONTAMINATION

A. Total Regulated PAHs – Maximum concentration at the site (Assume < 0.660 mg/kg if only gasoline was stored on site)

_____ ≤ 0.0660 = 0
_____ .066-0.99 mg/kg = 10
*X 1-10 mg/kg = 25
_____ >10 mg/kg = 50
*1996 CAP-Part A sample SB0801 at 4.0'-6.0'

B. Total Benzene – Maximum Concentration found on the site

_____ ≤ 0.005 mg/kg = 0
_____ >0.005 - .05 mg/kg = 1
*X .05 – .99 = 10
_____ 1 – 9.9 = 25
_____ 10 – 49.9 mg/kg = 40
_____ ≥ 50 mg/kg = 50
*2008 Supplemental Investigation sample P1-DB-06

C. DEPTH TO GROUNDWATER – (Shallowest)
(bls = below land surface)

_____ > 50' bls = 1
_____ > 25' bls = 2
_____ > 10' bls = 5
X ≤ 25' bls = 10

Fill in the blanks: (A. 25) + (B. 10) = (35) x C. (10) = D. (350)

GROUNDWATER CONTAMINATION

E. Free Product (Nonaqueous-phase liquid hydrocarbons:
See Guidelines for definition of "sheen").

_____ No free product = 0
*X Sheen – 1/8" = 250
_____ > 1/8" - 6" = 500
_____ > 6" – 1ft. = 1,000
_____ For every additional inch above a foot, add 100 more points = 1,000+
*July 2008 Gauging event

F. Dissolved Benzene – Maximum Concentration at the site (One well must be located at the source of the release.)

_____ ≤ ug/L = 0
_____ >5 – 100 ug/L = 5
_____ >100 – 1,000 ug/L = 50
* X >1,000 – 5,000 ug/L = 250
_____ >5,000 – 10,000 ug/L = 500
_____ > 10,000 ug/L = 1,500
*Sample from D-MW5R (December 2008)

Fill in the blanks: (E. 250) + (F. 250) = G. (500)

Facility Name:	**Former Pumphouse #1 Site (Release #2)**	**Ranked by:**	**Maddox/Bostian**
Facility ID:	**9-025085*2** **County:** **Chatham**	**Date Ranked:**	**4/21/2009**

POTENTIAL RECEPTORS (Must be Field Verified)

Distance from nearest contaminant plume boundary to the nearest hydraulically connected Point of Withdrawal for water supply. This distance must be field-verified. **If the point of withdrawal is not hydraulically connected, evidence as outlined in the CAP-A guidance document MUST be presented to substantiate this claim.**

H. Public

_____	Impacted = 2,000
_____	≤ 500' = 500
_____	> 500' – 1/4 mi = 25
_____	> 1/4 mi – 1 mi = 10
_____	> 1 mi – 2 mi = 2
*X	> 2 mi = 0

For lower susceptibility areas only:

_____	> 1 mi = 0

I. Non-Public

_____	Impacted = 1,000
_____	≤ 100' = 500
_____	> 100' - 500' = 25
_____	> 500' – 1/4 mi = 5
_____	> 1/4 mi – 1/2 mi = 2
X	> 1/2 mi = 0

For lower susceptibility areas only:

_____	> 1/4 mi = 0

Note: If site is in lower susceptibility area do not use the shaded areas.

J. Distance from nearest contaminant Pulum boundary to downgradient Surface Waters **OR UTILITY TRENCHES & VAULTS** (Must be field _verified)

_____	Impacted = 500
X	≤ 500' = 50
_____	> 500'- 1,000' = 5
_____	> 1,000' = 2

K. Distance from any Free Product to basements and crawl spaces

_____	Impacted = 500
_____	≤ 500' = 50
_____	> 500'- 1,000' = 5
X	> 1,000' = 2

Fill in the blanks:

(H. 0) + (I. 0) + (J. 50) + (K. 2) = L. 100 (G. 500) x (L. 100) = M. 50,000 (M. 50,000) + (D. 350) = N. 50,350

P. SUSCEPTIBILITY AREA MULTIPLIER

_____	If site is located in a Low Ground – Water Pollution Susceptibility Area = 0.5
X	All other sites = 1

Q. EXPLOSION HAZARD

Have any explosive petroleum vapors, possibly originating from this release, been detected in any subsurface structure (e.g., utility trenches, basements, vaults, crawl space, etc.)

_____	Yes = 200,000
X	No = 0

(N. 50,350) x (P. 1) + (Q. 0) = ***50,350** ENVIRONMENTAL SENSITIVITY SCORE

*Based on 2008 groundwater concentration in D-MW5R and July 2008 free product thickness

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APPENDIX E

Pilot Test UIC Form

Underground Injection Control Program
Pilot Test Injection Well Notification Form

Attachment A
EPD-UIC-003
Revision 1

	Facility	Operator
1.0 Address		
1.1 Name	Hunter Army Airfield	ARCADIS-US
1.2 Street Address	685 H.E. Wilson Blvd	801 Corporate Center Dr, Suite 300
1.3 City, State	Savannah, GA	Raleigh, NC 27607
1.4 ZIP Code	31409	27607
1.5 Telephone	912-315-5148	919 854 1282

2.0 Location: Latitude: 32.014729 Longitude: -81.140735

3.0 What is the contaminant in the Ground Water? BTEX
4.0 Georgia Licensed Water Well Contractor or Bonded Driller: GeoLab or TBD.
5.0 Professional ~~Engineer or~~ Geologist: Dave Willis
6.0 Well Data Table

	Injection Wells	Monitoring Wells
6.1 Number Wells	12 (2 used for pilot)	2
6.2 Well Depth(s)	15 or 20 ft	15 ft
6.3 Well Diameter	2 inch	2 inch
6.4 ~~Air~~ Persulfate Volume in/out	5000 gallons/well 5% persulfate solution	—
6.5 Sampling freq.	weekly/1st month, bi-weekly	same as injection well

7.0 Responsible EPD Associate for site: William E. Logan
8.0 Date injection started: est. June 2010
8.1 Date* injection stopped: Pilot injection will take estimated 1 week.
8.2 Reason Injection Stopped? Design Volume Injected
8.3 Date these injection wells were logged in to the UIC Class V Well inventory and file: N/A
9.0 UIC Class V Well Inventory Number: N/A
10.0 UST/HWMB CAP tracking number: 9-025085*2
11.0 Pending UIC Class V Permit Number: N/A

*Note: This pilot test well form is valid only for 90 days from the start of injection.

**Submit this form to:
Georgia Environmental Protection Division,
Regulatory Support Program
UIC Unit
Room 400
19 M.L. King, Jr. Dr., SW
Atlanta, Georgia, 30334

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APPENDIX F

ARCADIS Remediation Procedure
ARC RSE-002: In Situ Chemical Oxidation

1.0 APPLICABILITY

In situ Chemical Oxidation (ISCO) refers to the subsurface injection of the following oxidizing reagents that are liquid or solid upon delivery:

- Sodium Permanganate (concentrated liquid)
- Potassium Permanganate (crystalline solid)
- Hydrogen Peroxide (liquid)
- Sodium Persulfate (crystalline solid)

These oxidants are typically blended in liquid form for injection although solid persulfate may be blended directly with soil using specialized mixing equipment. The objective of ISCO is to chemically convert contaminants into more benign components under strongly oxidizing conditions, typically through the creation of free radicals.

1.1 Supplemental Chemicals: Hydrogen Peroxide must by catalyzed using iron (as ferrous sulfate or in a chelated form). Sodium Persulfate is typically activated using Hydrogen Peroxide, steam (heat), chelated-iron, or caustic (sodium hydroxide). Special care is required when handling these materials as well.

1.2 Typical Operations: Oxidants may be injected through wells, trenches, direct push technology (DPT), specialized soil blending equipment, or auger flights to form an *in situ* reactive zone (IRZ). This SOP is intended for O&M activities related to IRZ sites, including injection and monitoring. Delivered concentrations vary based on oxidant type and manufacturer. Injection concentrations vary based on oxidant type, concentrations of target contaminants, and soil oxidant demand (SOD).

1.3 This procedure does not apply to the injection of ozone, a gaseous oxidant.

1.4 This procedure does not apply to the *ex situ* treatment of wastewater or groundwater in oxidation reactors using UV-catalyzed peroxide or peroxide-ozone mixtures (HiPox).

1.5 This procedure is not a design or operation manual. Specific implementation requirements for the site, oxidant, and contaminants are defined in the project design document and manufacturer's instructions.

2.0 HAZARD ANALYSIS

The primary risk associated with oxidants is chemical burning of the skin, eyes, and mucous membranes. Other risks include pressurization of closed systems, excessive heat release, and fire. Oxidizers may react with combustible materials (such as fuels, paper, or solvents) or reducing agents (such as metals or sulfites).

ALL ISCO PROJECTS REQUIRE AT LEAST TWO PERSONNEL IN THE FIELD, BOTH OF WHOM HAVE CURRENT FIRST AID TRAINING, ARE MEDICALLY CLEARED UNDER THE ARCADIS MEDICAL SURVEILLANCE PROGRAM AND HAVE CURRENT RESPIRATOR FIT-TESTING.

2.1 Chemical Burns

Methods of handling oxidants should prevent bodily contact and prevent the generation of dust or mists. Risks can be minimized by designing the injection process to use the lowest possible concentrations, flow rates, and pressures in the field. The health effects from exposure to these materials are generally acute and localized to the point of exposure. General health concerns for all strong oxidants include:

Inhalation:
Oxidants are not volatile and inhalation risks are result from the formation of airborne dusts and mists of the oxidizing materials. Dry chemicals such as potassium permanganate and sodium persulfate may represent inhalation hazards due to the formation of airborne particulates prior to mixing. Handlers of the materials shall minimize dust generation during handling and mixing. Hydrogen peroxide mist can be evolved during decomposition or heating. Staff shall maintain liquid temperatures within design limits provided in the project design document.

Exposure to oxidants causes irritation to the upper and lower respiratory tract. Symptoms may include sore throat, shortness of breath, inflammation of nasal passages, coughing, and wheezing. Inhalation of these materials may cause pulmonary edema which constitutes a medical emergency. Any exposure to these materials may cause an allergic reaction in some people resulting in asthma-like symptoms and life-threatening shock. ***The onset of adverse health effects from inhaling oxidants may not be felt immediately and may take several hours to develop.***

Ingestion:
Ingesting these oxidant materials can result in severe irritation and possible burns to the mouth and throat. In addition, gastrointestinal disturbances may be expected with nausea, abdominal pain, and vomiting.

Skin Contact:
Skin contact with the oxidant materials may result in severe skin irritation or burns. Symptoms include redness, itching and pain. The exposure may cause allergic skin reactions in some people.

Eye Contact:
Eye contact with the oxidant materials can cause severe irritation or burns with eye damage.

Minimizing exposures to oxidants can be accomplished by:

- Using the appropriate personal protective equipment (Section 4.0)
- Following manufacturer's instructions as provided in Material Safety Data Sheets (MSDS)
- Use of chemically-compatible materials (determined during design)
- Handling and mixing materials in a controlled, deliberate manner (as determined during design)
- Properly disposing of or returning empty containers (e.g., empty persulfate packages).

Details of these exposure control techniques are outlined in this document and in the project specific Health and Safety Plan (HASP).

2.2 Pressurization

Decomposing oxidants can evolve large volumes of gas and/or vapor, can accelerate exponentially with heat generation, and create significant and hazardous pressures if contained and not properly controlled or mitigated. Oxidants should be blended slowly and under supervision in accordance with the project design and manufacturer's instructions. System design should include adequate ventilation and pressure relief controls.

Handlers should not transfer or mix oxidants in containers that have not been passivated. Back pressure on the injection line should be monitored continuously and injections halted if pressures exceed the design limits. All site workers should know how to quickly halt injections (i.e., operation of isolation valve or kill switch to stop flow).

2.3 Heat Release

Oxidants can decompose in storage under conditions of moisture (water/water vapor) and/or excessive heat causing release of oxides and oxygen that supports combustion. Decomposition is an exothermic reaction that could form a high temperature melt.

There is a greater concern of heat release under the following conditions:

- Shallow water table
- Buildings or enclosures near the injection points
- Higher oxidant concentrations
- Presence of non-aqueous phase liquids (NAPLs)

An oil/water interface probe should be used to measure product thickness in injection wells and nearby monitoring wells ***prior to injection*** if the potential exists for LNAPL (petroleum). ***Oxidants should not be injected in potential LNAPL areas without prior approval of the In Situ Reactive Zone discipline leader or designee.***

Peroxide has a greater potential for heat release than equivalent concentrations of permanganate or persulfate. For all injections, groundwater temperature should be monitored in the well closest to the injection point as a control measure (and to evaluate oxidation progress).

2.4 Fire

The DOT defines an oxidizer as a substance that yields oxygen readily to stimulate the combustion of organic matter. Oxidants themselves are not combustible but supply oxygen and heat to create combustible conditions. Oxidants can become an ignition source if allowed to dry on clothing or other combustible materials.

Oxidants should be prevented from contacting clothing and other combustible materials. Containment materials should be inert (e.g., do not use hay bales).

2.5 Material Safety Data Sheets

General MSDS documents for oxidants and sodium hydroxide can be found at the following links (oxidant, manufacturer, concentration). Always use the latest MSDS document from the manufacturer when assessing potential safety issues.

- Hydrogen peroxide (FMC, 40-60 percent):
  http://www.h2o2.com/intro/FMC_MSDS_40_to_60.pdf

- Potassium permanganate (Carus, solid):
  http://www.caruscorporation.com/MSDS-Request-pot-perm.htm

- Sodium permanganate (Carus, 40 percent):
  http://www.caruscorporation.com/MSDS-Request-pot-perm.htm

- Sodium persulfate (FMC, solid):
  http://msds.fmc.com/msds/100000010343-MSDS_US-E.pdf

These links are current as of 6 June 2008. For generic MSDS for these materials, reference the HazMat Zone on the Health and Safety APEX site at the following link:

http://www.hz.genium.com

(username: arcadis_library password: library1

3.0 ENGINEERING CONTROLS

Specific controls for oxidant delivery, storage, handling, injection, and disposal will be defined in the project design document. The following are general guidelines.

3.1 Storage

Oxidants should be isolated from incompatible materials prior to use to prevent decomposition. Handling procedures should maintain the oxidant materials at the same level of purity and as that of the original material from the manufacturing process. The MSDS for the material will have additional storage instructions:

- Storage of oxidants should be restricted to its original shipping container or to properly designed containers made of compatible materials which have been thoroughly cleaned of reactive impurities (i.e., passivated).
- Oxidants that been removed from the original shipping container should not be returned to it.
- All containers must be stored away from sources of direct heat and combustible materials. Combustible materials include wood, paper, oil, etc., organic materials such as alcohols, acetone, and other ketones; aldehydes, and their anhydrides; glycerol, cotton (cellulose), and general trash.
- Liquid oxidants should be vented in accordance with the manufacturer's instructions and MSDS.
- Adequate ventilation and ample water supply for thorough flushing of accidental spillage on personnel and property should be provided.

Oxidants should be protected from incipient moisture to prevent decomposition. Storage facilities should shield materials from rain and maintain separation from the ground to prevent contact with stormwater.

Oxidants must be stored in accordance with National Fire Prevention Association (NFPA) guidelines. All storage tanks should be labeled as to contents and chemical hazards. All process lines should be labeled for content and flow direction.

3.2 Safety Equipment

Specific safety equipment for the project will be defined in the project HASP and/or Job Safety Analysis (JSA). In general, the following equipment should be available on every ISCO project:

- Emergency PPE (refer to Section 4.0)
- ANSI compliant eyewash and emergency shower with drench capabilities;
- First aid kit; and
- Water fire extinguisher or water hose capable of flushing fire with water (do not use dry chemical, CO2, or foam extinguishers on fires involving oxidizers)

Equipment should be inspected regularly. Where possible, the water source used for mixing should be valved so a separate spigot is available that could be used for flushing of bodily parts exposed to oxidants (see First Aid, Section 5.0).

3.3 Spill Prevention and Control

Spills may occur during unloading or moving of delivered oxidants, during mixing of oxidants and/or activators, and during injection.

Delivery and Storage: The storage location should be inspected prior to delivery for adequate access, stability of the ground, and absence of impediments to level loading. Oxidants should be stored in accordance with the manufacturer's instructions. Delivery should be coordinated to allow immediate use and minimize storage time. If extended storage is necessary, oxidants must be kept in a secure location. The design document will dictate the need for berming.

Mixing: Staff shall handle oxidants and activators in accordance with the project design protocols and manufacturer's instructions. All materials that come in contact with the oxidant or activator must be chemically compatible, including fittings (verify during design). Mixing of chemicals should be done gradually and under constant supervision. Staff will closely follow the project design document and mix only enough oxidant to be injected with the allowable daily work schedule. **Deviation from the approved mix design is prohibited.**

Injection: All process lines shall be pressure tested for leaks prior to addition of oxidant or activator. Operating pressures and temperatures shall be monitored regularly and maintained within design guidelines. Unless the system is designed for automated operation, all injections should be monitored continuously by at least two workers. System injection shall be suspended if there are not at least two workers in the injection area.

In case of a small spill, staff will attempt to contain and collect the material for disposal as a hazardous waste (reactivity). The Project O&M Plan will have specific spill response instructions for the oxidizer used. In general, if the spill poses risk of fire, dilute oxidant with copious quantities of water and contact the local fire department or facility emergency responder.

4.0 PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment will be stipulated in the project HASP and/or JSA, but should include at a minimum:

- ANSI compliant safety goggles;
- Face shield
- Protective coveralls with a polyester content greater than 65 (specific coverall material will be documented in the project-specific HASP;
- Rubber or neoprene gloves and boots.
- Rubber or neoprene apron.

If conditions warrant respiratory protection per the guidance of the project HASP or JSA, workers will wear NIOSH-approved full face piece air purifying respirators equipped with cartridges appropriate for the oxidizer. (see the project-specific HASP) Consult HASP or JSA for action levels or situations where respiratory protection is required in lieu of safety goggles and face shield.

5.0 FIRST AID

First aid for chemical burns begins with ending the exposure. SPEED IS ESSENTIAL. Verify the following before starting work:

- You have notified local emergency medical professionals of the materials being used and the possible emergency scenarios
- You have adequate cell phone coverage in all work areas
- You know the current 911 address for the work areas
- You have an available source of water for flushing exposed skin
- You have a working ANSI-compliant eyewash
- You have defined egress to an area accessible by ambulance
- Additional clothing or coveralls are available in the event that primary clothing becomes contaminated

A chemical burn on the skin can be deeper and larger than the burn first appears.The first aid trained staff should monitor your burn closely and seek medical help if you experience any severe symptoms or pain that cannot be alleviated.

General first aid requirements are provided below for common oxidizers used by ARCADIS. Refer to the manufacturer-specific MSDS or technical specifications for any specific first aid treatment for the actual oxidizer used.

5.1 Oxidants

Contaminated clothing should be removed immediately, and the affected area should be flushed under cold running water for 20 minutes. Use large amounts of water. Care will be taken to avoid allowing the runoff water contaminate other parts of the body. If solid material contacts bare skin, the person should gently brush away any solid material. Immediate irrigation can reduce the depth and size of the burn.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion: If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Thoroughly wet and then discard clothing and boots that have come in contact with oxidants.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Do NOT allow victim to rub or keep eyes closed. Get medical attention immediately.

5.2 Sodium Hydroxide (if used as activator for persulfate)

Ingestion: Provided the victim is conscious, wash out mouth with water, give 200-300 ml (6-10 ounces) of water to drink. Do not induce vomiting.

Skin Contact: Remove contaminated clothing. Drench with large quantities of water.

Eye Contact: Immediately irrigate the eye with eye wash solution or clean water for at least 15 minutes, holding the eye open. Continue until medical attention can be obtained.

6.0 DEPARTMENT OF TRANSPORTATION AND DEPARTMENT OF HOMELAND SECURITY COMPLIANCE

Transport and shipment of oxidizers is regulated by the US Department of Transportation. Workers involved with transport of this material on public roadways must be trained in the safe and proper transport of hazardous materials.

Although specific variations may exist, the general transport of solid or liquid oxidizers is subject to the following:

- Oxidizers are limited to 30 kg (66 pounds) for solids and 30 L (8 gallons) for liquids under DOT Materials of Trade exemptions. These materials must be properly labeled.
- Volumes of these materials in excess of Materials of Trade (MOT) limits and in less than 119 gallons capacity (net mass <400 kg [882 pounds] and <119 gallons capacity for solids) (non-bulk packaging) requires full DOT compliance associated with labeling, markings and shipping papers.
- Oxidizers transported in volumes >119 gallons (net mass >400 kg [882 pounds] and >119 gallons capacity for solids) (bulk packaging) requires the transport vehicle to be placarded in addition to requirements for non-bulk packaging. Bulk transport of oxidizers requires additional FMCSA requirements of commercial driver's licensing with hazmat endorsement.

DOT shipping guides for these materials can be found on the H&S APEX site.

Large bulk shipments or storage of bulk quantity storage of selected oxidizers may be subject to Department of Homeland Security requirements for highly hazardous chemicals. Contact the ARCADIS DOT Manager for additional information.

All shipments or transport of oxidizers either in pure or diluted concentrations, requires a shipping determination to be performed by a trained individual. This also includes samples collected from injection wells or monitor wells where oxidizer materials may be present.

History of Changes

Revision Date	Revision Number	Reason for change
30 May 2008	Draft	Working document for internal review