FINAL



CORRECTIVE ACTION PLAN

PART B ADDENDUM #2



Underground Storage Tanks 25 & 26 Facility ID #9-025008 Building 1343 Hunter Army Airfield, Georgia

Prepared for



U.S. ARMY CORPS OF ENGINEERS SAVANNAH DISTRICT

Contract No. DACA21-02-D-0004 Delivery Order 0006

April 2003



CORRECTIVE ACTION PLAN-PART B ADDENDUM #2 UNDERGROUND STORAGE TANKS 25 & 26 FACILITY IDENTIFICATION NUMBER #9-025008 BUILDING 1343 HUNTER ARMY AIRFIELD, GEORGIA

Prepared for
U. S. Army Corps of Engineers
Savannah District
Under Contract Number DACA21-02-D-0004
Delivery Order Number 0006

Prepared by SCIENCE APPLICATIONS INTERNATIONAL CORPORATION 151 Lafayette Drive Oak Ridge, TN 37830

April 2003

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	ALTERNATE CONCENTRATION LIMIT AND ALTERNATE THRESHOLD LEVEL CALCULATIONS

LIST OF ACRONYMS

ACL alternate concentration limit
ATL alternate threshold level
BGS below ground surface

BTEX benzene, toluene, ethylbenzene, and xylenes

CAP Corrective Action Plan

COPC constituent of potential concern
DAF dilution attenuation factor
DPW Directorate of Public Works

EPA U. S. Environmental Protection Agency
GA EPD Georgia Environmental Protection Division

gpm gal/min

GUST Georgia Underground Storage Tank Management Program

HAAF Hunter Army Airfield

IWQS In-Stream Water Quality Standard MCL maximum contaminant level PAH polynuclear aromatic hydrocarbon

SI site investigation TCE trichloroethene

USACE U. S. Army Corps of Engineers
UST underground storage tank
VOC volatile organic compound

I. CORRECTIVE ACTION PLAN CERTIFICATION – PART B

(Form and certification follow this page.)

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Georgia Department of Natural Resources

Environmental Protection Division Land Protection Branch

Underground Storage Tank Management Program
4244 International Parkway, Suite 104
Atlanta, Georgia 30354
Phone (404) 362-2687
FAX (404) 362-2654

CORRECTIVE ACTION PLAN PART B

Facility Name:	Building 1343, USTs 25 & 26 Site		-	
Street Address:2	2nd BN 3d Aviation Brigade (previous	sly 260th Quarterma	ster) Motor	Pool, Tubb Street
City:	Hunter Army Airfield	County	: Libert	у
Facility ID #:9	9-025008			
	T Owner/Operator:	Prepared by:		
	omas C. Fry/Environmental Branch		cia Stoll	
	Army/HQ 3d Inf. Div (Mech)			tions International Corp.
	W ENRD ENV. Br (Fry)	Address: P.O.	Box 2501	
	7 Frank Cochran, Building 1139	Cite Oak	D' I	C TDI
	t Stewart State: GA	City: Oak Zip Code: 3783		State: TN
Zip Code313	14-4928	Zip Coue <u>3783</u>	0.1	
I. PLAN CE	RTIFICATION			
A. UST Own	er/Operator			
complete, a	ertify that the information contained in and the plan satisfies all criteria and rand Storage Tank Management.	n this plan and in al equirements of Rule	1 the attachi 391-3-150	ments is true, accurate, and 09 of the Georgia Rules for
Name:	Thomas C. Fry			
Signature	:		Date: _	
B. Profession	al Engineer or Professional Geologi	ist		TO DI GAL
Name:	Patricia Stoll	· · · · · · · · · · · · · · · · · · ·	- /	22851
Signature	: fat UNTOU		 	Afil 4/4/03
Date:	414103		_	Georgia Stamp of Soal

Check all boxes below 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.

A.	Horizontal and Vertical Extent of Contamination:
	 ⊠ Soil (Section II.A.1) ⊠ Groundwater (Section II.A.2)
	☐ Free Product (Section II.A.3) ☐ Surface Water (Section II.A.4)
В.	Local and Site Hydrogeology
	□ Documentation of Local Groundwater Conditions (Section II.B.1)
	Referenced or Documented Calculations of Relevant Aquifer Parameters (Section II.B.4)
	☐ Direction of Groundwater Flow (Section II.B.5)
	☐ Table of Monitoring Well Data (Table 2)
	□ Potentiometric Map (Figures 14 & 15)
	☐ Flow Net Superimposed on a Base Map (Figures 14 and 15)
III.	REMEDIAL ACTION PLAN:
A.	Corrective Action Completed or In-Progress:
	Recovery/Removal of Free-Product (Non-aqueous Phase Hydrocarbons)
	☐ Remediation/Treatment of Contaminated Backfill Material & Native Soils
	Other (specify) Monitoring Only Plan for benzene plume
В.	Objective of Corrective Action:
	Remove Free Product That Exceeds One-Eighth Inch
	☐ Remediate Groundwater Contamination That Exceeds:
	Maximum Contaminant Levels (MCLs)
	OR
	☐ In-stream Water Quality Standards

II.

SITE INVESTIGATION REPORT

В.	Objective 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)
	□ Provide Risk Based Corrective Action for Benzene Plume (CAP-Part B Report)
	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 Rule09 (3) But Is Less Than ACLs
	OR
	No Further Action Required - Soil and/or Groundwater Contamination is Below Levels in Rule09 (3)
C.	Design Operation of Corrective Action Systems
	☐ Soil ☐ Groundwater ☐ Free Product ☐ Surface Water ☒ Not Applicable
D.	Implementation (Section III.D)
	Includes, as a minimum, the following:
	Milestone schedule for site remediation
	Inspection and preventive maintenance schedule for all specialized remediation equipment
	Monitoring/sampling and reporting plan for measuring interim progress and project completion
	Plan to decommission equipment/wells and close site
IV.	PUBLIC NOTICE
	Certified Letters to Adjacent, and Potentially Affected Property Owners and Local Officials
	☐ Legal Notice in Newspaper, as approved by EPD (Section III.E)
	Other EPD-approved Method (specify)

V.	CLAIM FOR REIMBURSEMENT: (For GUST Trust Fund sites only)
	☐ GUST Trust Fund Application (GUST-36), must be attached if applicable
	Cost Proposal
	☐ Non-Reimbursable Costs
	OR
	☐ Reimbursable Costs
	☐ Total Project Costs
	Costs incurred to date, per GUST-92
	☐ Estimated costs to complete corrective action, per GUST-92
	☐ Invoices and Proofs-of-Payment for Costs Incurred to Date
	☐ Proposed Schedule For Reimbursement
	☐ Lump Sum Payment Upon Completion Of Corrective Action
	OR
	☐ Interim Payments With Final Payment Upon Completion
	Not Applicable ■

II. SITE INVESTIGATION REPORT

The results of the initial Corrective Action Plan (CAP)–Part B investigation at the former Underground Storage Tanks (USTs) 25 & 26, Facility ID #9-025008, Building 1343, at Hunter Army Airfield (HAAF), Georgia, are presented in the CAP–Part B report (SAIC 2000). The CAP–Part B Addendum #1 (SAIC 2001a) documents the first phase of the supplemental investigation activities related to the chlorinated solvent plume that was discovered during the activities in 1999. This addendum documents the second phase of supplemental investigation activities conducted between April 2001 and December 2002 related to that plume.

The USTs 25 & 26 site is located in the 2nd BN 3d Aviation Brigade Motor Pool (previously the 260th Quartermaster Motor Pool) on Tubb Road, as illustrated in Figure 1. A general site map showing the location of the USTs, ancillary piping, and underground utilities is provided in Figure 2. The USTs 25 & 26 site is located within an average or higher groundwater pollution susceptibility area, is more than 500 ft from a withdrawal point, and is less than 500 ft from a surface water body. Because a public water supply well exists within 2 miles of the site, as defined in Georgia Underground Storage Tank (GUST) Management Rule 391-5-15.09, the appropriate soil threshold levels are those presented in Table A, Column 2 of GUST Rules 391-5-15. According to the operational information provided by the Fort Stewart Directorate of Public Works (DPW), UST 25 had a capacity of 25,000 gal and was used for storing diesel fuel. UST 26 had a capacity of 6,000 gal and was used for storing gasoline. Both USTs were located in the same tank pit and were constructed of fiberglass-coated steel. The associated piping was constructed of steel with a protective coating. The construction of the refueling station was completed in 1986, but the station did not become operational until October 1989. The piping associated with the system was replaced with flex piping in 1992 under a U. S. Army Corps of Engineers (USACE) project. The tanks and associated piping were abandoned in place in July 1998.

The horizontal and vertical extent of petroleum-related contamination in soil and groundwater was determined during the CAP-Part B investigation. In addition to the benzene, toluene, ethylbenzene, and xylenes (BTEX) contamination at the site, the CAP-Part B documented the presence of trichloroethene (TCE) in groundwater. The source and extent of the TCE contamination were not determined during the investigation. The groundwater Monitoring Only Plan proposed in the CAP-Part B report (SAIC 2000) recommended semiannual monitoring of the shallow BTEX and deep TCE contamination. Additional investigative activities were recommended to determine the extent and source of the TCE plume prior to remediation. As a result supplemental investigation activities were conducted in 2000 and 2001 in an effort to determine the extent of the deep TCE contamination. The results of this investigation were discussed in Addendum #1 (SAIC 2001a). The lateral extent of the TCE contamination was not determined in the first phase of the supplemental investigation. Addendum #1 (SAIC 2001a) recommended additional investigative activities in an effort to determine the horizontal extent of the TCE contamination. As part of the second phase of the supplemental investigation, five vertical profiles were installed in July 2002, followed by five wells in October 2002. The five wells were then sampled in December 2002. The locations of the monitoring wells and vertical profiles installed as part of the CAP-Part B and supplemental investigation activities are shown in Figures 3 and 4, respectively.

This addendum is being submitted to the Georgia Environmental Protection Division (GA EPD) Underground Storage Tank Management Program to document the results of the second phase of the supplemental investigation (i.e., April 2001 through December 2002) of the chlorinated solvent plume discovered in 1999 during the CAP–Part B investigation. The supplemental investigation was performed by Science Applications International Corporation for the Fort Stewart DPW, Environmental Branch, through the USACE, Savannah District, in April 2001 through December 2002 under contract DACA21-02-D-0004, delivery order 0006.

II.A. 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, CAP–Part A site investigation (SI), and CAP–Part B SI and was documented in the CAP–Part B report (SAIC 2000).

The vertical extent of chlorinated-solvent-related contamination, primarily TCE, in groundwater was determined during the supplemental investigation activities that occurred in 2000 and 2001; however, the horizontal extent of the contamination was not determined during those activities. The results of the various supplemental investigation activities are described in the following sections.

II.A.1. Delineation of Soil Contamination

The delineation of petroleum-related soil contamination was discussed in the CAP-Part B report (SAIC 2000). No additional soil sampling was conducted with regard to the chlorinated solvent groundwater plume observed during the CAP-Part B investigation.

II.A.2. Delineation of Groundwater Contamination

II.A.2.a. Benzene Contamination in Groundwater

BTEX and polynuclear aromatic hydrocarbon (PAH) compounds were detected in groundwater samples collected during the various investigations. This contamination was discussed in the CAP–Part B report (SAIC 2000). The report recommended a monitoring only program for the benzene contamination in groundwater, which was approved by GA EPD. The semiannual monitoring only program was implemented in June 2000. Benzene was the only constituent to exceed its In-Stream Water Quality Standard (IWQS) of 71.28 μ g/L. The fate and transport modeling results were revised in the first annual monitoring only report (SAIC 2001b) using the results from the semiannual monitoring events to calibrate the model. Because of the revised fate and transport modeling results, a revised alternate concentration limit (ACL) for benzene of 1,076 μ g/L was proposed for the site in the first annual monitoring only report (SAIC 2001b). As of February 2003 GA EPD had not provided a technical review of the first annual monitoring only report. The second annual monitoring only report was submitted in July 2002 (SAIC 2002). The third annual monitoring only report is scheduled for submittal in July 2003.

II.A.2.b. TCE Contamination in Groundwater

In addition to the petroleum-related compounds, TCE was tentatively identified in several groundwater samples during the first phase of CAP–Part B field activities in May 1999. As a result the second phase of the CAP–Part B investigation in September 1999 was expanded to include analysis for volatile organic compounds (VOCs); however, the horizontal extent of the TCE contamination was not determined during the CAP–Part B investigation. The CAP–Part B report recommended that additional investigation activities be conducted to determine the extent of TCE contamination in groundwater and that the three deep wells (i.e., AF-40, AF-41, and AF-42) installed in February 2000 be sampled as part of the semiannual monitoring only program. The horizontal extent of the TCE contamination was not determined through the installation of the vertical-profile borings installed in December 2000 and discussed in Addendum #1 (SAIC 2001a). As recommended in the second annual monitoring only report (SAIC 2002), monitoring of the three deep wells for VOCs was discontinued under the monitoring only program because of the additional investigation activities being performed with respect to the TCE plume.

II.A.2.b.1. CAP-Part B Groundwater Sampling – September 1999

The groundwater samples collected in May 1999 contained numerous tentatively identified compounds. TCE was one of the primary compounds tentatively identified in shallow wells AF-17, AF-18, AF-19, AF-23, AF-24, AF-25, AF-26, AF-27, AF-28, and AF-29, which are located downgradient of the former UST site along the drainage ditch. In addition, the groundwater samples from the two vertical-profile borings, AF-21 and AF-22, located closer to the UST also contained TCE at several depth intervals. As a result of this tentative identification, monitoring wells AF-01 through AF-29 (except for borings AF-06, AF-10, AF-21, and AF-23, which were not converted to monitoring wells) were resampled in September 1999. The groundwater samples were analyzed for the full suite of VOCs.

In September 1999, 57 groundwater samples were collected from 3 vertical-profile borings and 32 shallow monitoring wells and analyzed for VOCs to confirm the presence of TCE. The VOC analytical results from September 1999 were presented in the CAP–Part B report and confirmed the presence of TCE and several other organic compounds in the wells listed above, except AF-24. The analytical results are summarized in Table 1 and were presented in Addendum #1 (SAIC 2001a).

During the September 1999 groundwater sampling event, benzene; 1,1-dichloroethene; and TCE were the only constituents to exceed their respective maximum contaminant levels (MCLs) or IWQSs. The benzene contamination is related to the operation of the USTs and is being addressed in a monitoring only program. The source of the TCE and its degradation products (i.e., 1,1-dichloroethene) has not been determined.

During the September 1999 sampling event, the highest TCE concentrations in the shallow monitoring wells were located in wells AF-25, AF-26, AF-27, and AF-37, which are south of the site near the intersection of several drainage ditches or swales. In September 1999 there was no TCE contamination above the MCL in the shallow wells located in the motor pool of the USTs 25 & 26 site. The maximum TCE concentration in vertical profile AF-30, which is located within the motor pool, occurred at 26 to 30 ft below ground surface (BGS) and then continued to decrease with depth. As a result of these findings, additional vertical-profile borings were recommended to the north, east, and west of vertical profile AF-30 to determine the horizontal and vertical extent of TCE contamination. In addition, vertical-profile borings were recommended to the south and west of well AF-27 to determine if there was a source area in those directions.

II.A.2.b.2. Additional Deep Well Installation and Sampling – February 2000

As recommended in the CAP-Part B report, three deep monitoring wells (i.e., AF-40, AF-41, and AF-42) were installed in January 2000 to monitor the TCE plume as part of the monitoring only program. Groundwater samples were collected from these three wells in February 2000. The analytical results are summarized in Table 1 and presented in Addendum #1 (SAIC 2001a).

Analytical results from the well installation in February 2000 showed concentrations of chlorinated solvents in deep wells AF-40 and AF-41, which are screened from 28.5 to 33.0 ft BGS. No chlorinated constituents were detected in AF-42. 1,1-Dichloroethene was estimated at 0.94J μ g/L in well AF-41. 1,2-Dichloroethene was detected at 15.4 μ g/L in well AF-40 and 35.6 μ g/L in well AF-41. TCE was detected at 53.3 μ g/L in well AF-40 and 158 μ g/L in well AF-41.

II.A.2.b.3. First Semiannual Sampling Event – June 2000

As recommended in the CAP-Part B report, a monitoring only program was implemented at the site in June 2000 to monitor the benzene and TCE plumes. In June 2000 three groundwater samples were

collected from three deep monitoring wells (i.e., AF-40, AF-41, and AF-42) and analyzed for VOCs to monitor the presence of TCE in the deep surficial aquifer in accordance with the recommendation in Section III.D.5 of the CAP-Part B report (SAIC 2000). The analytical results are summarized in Table 1 and were presented in Addendum #1 (SAIC 2001a).

Analytical results from the first semiannual sampling event in June 2002 showed concentrations of chlorinated solvents in deep wells AF-40 and AF-41. No chlorinated constituents were detected in AF-42. 1,1-Dichloroethene was detected at 1.6 μ g/L in well AF-40 and 3 μ g/L in well AF-41. 1,2-Dichloroethene was detected at 63.3 μ g/L in well AF-40 and 110 μ g/L in well AF-41. TCE was detected at 353 μ g/L in well AF-40 and 636 μ g/L in well AF-41. The TCE concentrations in AF-40 and AF-41 had increased since the February 2000 sampling event.

II.A.2.b.4. Supplemental Groundwater Sampling to Support Geophysical Survey – September 2000

In April 2000 and October/November 2000, Argonne National Laboratory conducted a geophysical survey in the wooded area southeast (i.e., east of the intersection of the drainage ditches and swales) of the USTs 25 & 26 site to better characterize the subsurface geology controlling the migration and entrapment of TCE. The survey was conducted in this area because of the TCE concentrations observed in the shallow monitoring wells during the September 1999 investigation. The September 2000 sampling event was conducted to provide analytical data that coincided with conducting of the geophysical survey field activities. The report prepared by Argonne National Laboratory was provided in Attachment A of Addendum #1 (SAIC 2001a), and the results are summarized in this section.

The geophysical survey identified two clay layers beneath the site. The upper clay layer is approximately 4.3 to 8.2 ft thick, and the top of the upper clay layer is located at depths ranging from 23.0 to 29.5 ft BGS. In general the elevation of the top of the upper clay layer decreases toward the southeast and also becomes thinner. The interval above the upper clay layer appears to be composed of sand and silt with some minor clay stringers. The top of the lower clay layer is located at depths ranging from 42 to 72 ft BGS. In general the elevation of the top of the lower clay layer decreases toward the southeast.

During the September 2000 sampling event, 33 groundwater samples were collected for VOC analysis from 30 shallow and 3 deep monitoring wells. The analytical results are summarized in Table 1 and were presented in Addendum #1 (SAIC 2001a). Benzene; 1,1-dichloroethene; and TCE were the only constituents to exceed their respective MCLs or IWQSs. The benzene contamination is related to the operation of the USTs and is being addressed in a monitoring only program.

The highest TCE concentrations in the shallow monitoring wells were in AF-25, AF-26, AF-27, and AF-37, which are located south of the site near the intersection of several drainage ditches or swales. There was no TCE contamination in the shallow wells, which are screened across the water table, located in the motor pool of the USTs 25 & 26 site during the September 2000 sampling event.

The analytical results from sampling of the deep monitoring wells have confirmed those of the vertical-profile sampling conducted in September 1999. Deep monitoring well AF-42, which is located in the vicinity of the intersection of the drainage ditches or swales and adjacent to vertical profile AF-31, did not indicate the presence of TCE at a screened interval of 28.5 to 33.0 ft BGS. Deep monitoring well AF-40, which is located north of AF-42 in the motor pool and adjacent to vertical profile AF-30, indicated the presence of TCE at a concentration of 42.9 μ g/L at a screened interval of 28.5 to 33.0 ft BGS. Deep monitoring well AF-41, which is located in the motor pool between AF-40 and AF-42, indicated the presence of TCE at a concentration of 1.2 μ g/L at a screened interval of 28.5 to 33.0 ft BGS.

03-051(doc)/040103

II.A.2.b.5. Vertical-Profile Sampling – November/December 2000

In November and December 2000, ten vertical-profile borings were installed at the site to further delineate the vertical extent of TCE contamination in groundwater. Groundwater samples were collected at 5-ft intervals from the water table to 50 ft BGS. During the November/December 2000 vertical-profile sampling event, 89 groundwater samples were collected for VOC analysis from ten vertical-profile borings. The analytical results are summarized in Table 1 and were presented in Addendum #1 (SAIC 2001a).

Benzene; 1,1-dichloroethene; and TCE were the only constituents to exceed their respective MCLs or IWQSs. The benzene contamination is related to the operation of the USTs and is being addressed in a monitoring only program.

As discussed in Addendum #1 (SAIC 2001a), the TCE plume observed at the 10-to-20-, 20-to-30-, 30-to-40-, and 40-to-50-ft-BGS intervals is located beneath the motor pool of the USTs 25 & 26 site. Addendum #1 (SAIC 2001a) also showed that the area of the TCE plume decreased with depth and that the highest TCE concentrations occurred at the 20-to-30-ft interval, which is just above the upper clay layer identified in the geophysical survey. Vertical-profile boring AF-52 had the highest TCE concentrations. This boring is located near the southwestern corner of Building 1345 and approximately 280 ft northeast of the intersection of the drainage ditches and swales at which the highest TCE contamination in the shallow surficial aquifer was observed.

II.A.2.b.6. Second Semiannual Sampling Event – January 2001

In January 2001 three groundwater samples were collected from three deep monitoring wells (i.e., AF-40, AF-41, and AF-42) and analyzed for VOCs to monitor the presence of TCE in the deep surficial aquifer in accordance with the recommendation in Section III.D.5 of the CAP–Part B report (SAIC 2000). The analytical results are summarized in Table 1 and were presented in Addendum #1 (SAIC 2001a).

Analytical results from the second semiannual sampling event in January 2001 showed concentrations of chlorinated solvents in deep wells AF-40 and AF-41. No chlorinated constituents were detected in AF-42. 1,1-Dichloroethene was estimated at 0.41J μ g/L in well AF-40 and 0.82J μ g/L in well AF-41. 1,2-Dichloroethene was detected at 26 μ g/L in well AF-40 and 32.7 μ g/L in well AF-41. TCE was detected at 108J μ g/L in well AF-40 and 176 μ g/L in well AF-41. Vinyl chloride was estimated at 0.67J μ g/L in well AF-40. The TCE concentrations in AF-40 and AF-41 had decreased since the June 2000 sampling event.

II.A.2.b.7. Additional Well Installation and Sampling – February/March 2001

In February 2001 ten monitoring wells were installed at the site based on the review of the November/December 2000 vertical-profile data. The screened interval of each well was selected based on the results of the vertical-profile sampling.

During the March 2001 sampling event, ten groundwater samples were collected for VOC analysis from the ten new monitoring wells. The analytical results are summarized in Table 1 and were presented in Addendum #1 (SAIC 2001a). TCE was the only constituent to exceed its respective MCL or IWQS. The results from the deep monitoring wells have confirmed the results of the vertical-profile sampling conducted in November/December 2000. There appear to be two areas within the plume in which the TCE concentrations are the highest (i.e., >500 µg/L).

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II.A.2.b.8. Third Semiannual Sampling Event – June 2001

In June 2001 three groundwater samples were collected from three deep monitoring wells (i.e., AF-40, AF-41, and AF-42) and analyzed for VOCs to monitor the presence of TCE in the deep surficial aquifer in accordance with the recommendation in Section III.D.5 of the CAP-Part B report (SAIC 2000). The analytical results are presented in Table 1 and Figure 5.

Analytical results from the third semiannual sampling event in June 2001 showed concentrations of chlorinated solvents in deep wells AF-40 and AF-41. No chlorinated constituents were detected in AF-42. 1,1-Dichloroethene was detected at 0.89J μ g/L in well AF-40 and 0.81J μ g/L in well AF-41. 1,2-Dichloroethene was detected at 48.5 μ g/L in well AF-40 and 39.5 μ g/L in well AF-41. TCE was detected at 255J μ g/L in well AF-40, 195J μ g/L in well AF-41, and 0.36J μ g/L in well AF-42. The TCE concentrations in AF-40 and AF-41 had increased since the January 2001 sampling event.

II.A.2.b.9. Vertical-Profile Sampling – July 2002

In July 2002 five vertical-profile borings were installed at the site to further delineate the horizontal and vertical extent of TCE contamination in groundwater. Groundwater samples were collected at 5-ft intervals from the water table to 45 ft BGS. During the July 2002 vertical-profile sampling event, 43 groundwater samples were collected for VOC analysis from five vertical-profile borings. Analytical results are presented in Table 1 and Figures 6a and 6b. The results from groundwater samples collected during the July 2002 vertical-profile sampling event are summarized below.

- 1,1-Dichloroethane was detected in 1 of the 43 vertical-profile groundwater samples at a concentration of 0.97J μ g/L. There is no MCL or IWQS for this constituent.
- 1,1-Dichloroethene was detected in 2 of the 43 vertical-profile groundwater samples at concentrations of 1.1J and 2.3 μ g/L. The concentrations did not exceed the MCL of 7 μ g/L or the IWQS of 3.2 μ g/L.
- 1,2-Dichloroethane was detected in 1 of the 43 vertical-profile groundwater samples at a concentration of 2.2 μ g/L. The concentrations did not exceed the MCL of 5 μ g/L or the IWQS of 98.6 μ g/L.
- 1,2-Dichloroethene was detected in 16 of the 43 vertical-profile groundwater samples at concentrations ranging from 0.37J to 116 µg/L. There is no MCL or IWQS for this constituent.
- 2-Butanone was detected in 1 of the 43 vertical-profile groundwater samples at a concentration of 5.3J µg/L. There is no MCL or IWQS for this constituent.
- Acetone was detected in 2 of the 43 vertical-profile groundwater samples at concentrations of 6.4 and 16.7 μ g/L. There is no MCL or IWQS for this constituent.
- Benzene was detected in 7 of the 43 vertical-profile groundwater samples at concentrations ranging from 0.38J to 5.6 μ g/L. None of the concentrations exceeded the IWQS of 71.28 μ g/L.
- Ethylbenzene was detected in 3 of the 43 vertical-profile groundwater samples at concentrations ranging from 0.45J to 3.5 μ g/L. None of the concentrations exceeded the MCL of 700 μ g/L or the IWQS of 28,718 μ g/L.

- Toluene was detected in 15 of the 43 vertical-profile groundwater samples at concentrations ranging from 0.43J to 7.0 μ g/L. None of the concentrations exceeded the MCL of 1,000 μ g/L or the IWQS of 200,000 μ g/L.
- TCE was detected in 20 of the 43 vertical-profile groundwater samples at concentrations ranging from 0.88J to 1,250 μ g/L. Thirteen of the concentrations exceeded the MCL of 5 μ g/L, and four exceeded the IWQS of 80.7 μ g/L.
- Vinyl chloride was detected in 1 of the 43 vertical-profile groundwater samples at a concentration of 0.74J μg/L. The concentration did not exceed the MCL of 2 μg/L or the IWQS of 525 μg/L.
- Total xylenes were detected in 2 of the 43 vertical-profile groundwater samples at concentrations of 0.27J and 1.0J μ g/L. The concentrations did not exceed the MCL of 10,000 μ g/L, and there is no IWQS for this constituent.

Benzene and TCE were the only constituents to exceed their respective MCLs or IWQSs. The benzene contamination is related to the operation of the USTs and is being addressed in a monitoring only program.

As shown in Figure 7, the TCE plume observed at the 10-to-20-ft BGS interval is not only located beneath the motor pool of the USTs 25 & 26 site, but also southwest under Tubb Street and southeast into the wooded area. Figures 8 through 10 show that the TCE plume observed at the 20-to-30-, 30-to-40-, and 40-to-50-ft-BGS intervals is located beneath the motor pool of the USTs 25 & 26 site. These figures also show that the area of the TCE plume decreases with depth and that the highest TCE concentrations occur at the 20-to-30-ft interval, which is just above the upper clay layer identified in the geophysical survey.

II.A.2.b.10. Additional Well Installation and Sampling – October/December 2002

In October 2002 five monitoring wells were installed at the site based on the review of the July 2002 vertical-profile data. The screened interval of each well was selected based on the results of the vertical-profile sampling.

During the December 2002 sampling event, five groundwater samples were collected for VOC analysis from the five new monitoring wells. Analytical results are presented in Table 1 and Figure 11. The results of groundwater samples collected during the December 2002 sampling event are summarized below.

- 1,1-Dichloroethane was detected in one of the five groundwater samples at a concentration of 1.8 μg/L. There is no MCL or IWQS for this constituent.
- 1,1-Dichloroethene was detected in three of the five groundwater samples at concentrations ranging from 0.54J to 4.9 μ g/L. The concentrations did not exceed the MCL of 7 μ g/L, but one concentration did exceed the IWQS of 3.2 μ g/L.
- 1,2-Dichloroethane was detected in one of the five groundwater samples at a concentration of $1.2 \,\mu\text{g/L}$. The concentrations did not exceed the MCL of $5 \,\mu\text{g/L}$ or the IWQS of $98.6 \,\mu\text{g/L}$.
- 1,2-Dichloroethene was detected in four of the five groundwater samples at concentrations ranging from 6.9 to 84.8 µg/L. There is no MCL or IWQS for this constituent.

• TCE was detected in all five of the groundwater samples at concentrations ranging from 2.0J to 807 μ g/L. Four of the concentrations exceeded the MCL of 5 μ g/L, and three of the concentrations exceeded the IWOS of 80.7 μ g/L.

1,1-Dichloroethene and TCE were the only constituents to exceed their respective MCLs or IWQSs. As shown in Figure 11, the results from the deep monitoring wells have confirmed the results of the vertical-profile sampling conducted in July 2002.

II.A.2.b.11. USACE Vertical-Profile Sampling – December 2002

In December 2002, USACE installed five vertical-profile borings to the west of the site to determine whether the TCE contamination was related to the purge facility. Groundwater samples were collected at 5-ft intervals from the water table to 45 ft BGS. During the December 2002 sampling event, 40 groundwater samples were collected for VOC analysis from the five vertical-profile borings. The analytical results are presented in Table 2 and Figure 12. The results from the December 2002 vertical-profile sampling event are summarized below.

- *cis*-1,2-Dichloroethene was detected in 3 of the 40 groundwater samples at concentrations ranging from 2.35J to 14.7 μ g/L.
- *n*-Butylbenzene was detected in 1 of the 40 groundwater samples at a concentration of 0.53J μg/L.
- sec-Butylbenzene was detected in 1 of the 40 groundwater samples at a concentration of 0.88J μg/L.
- n-Propylbenzene was detected in 1 of the 40 groundwater samples at a concentration of 0.62J μ g/L.
- Benzene was detected in 1 of the 40 groundwater samples at a concentration of 0.98J μg/L.
- Dichlorodifluromethane was detected in 2 of the 40 groundwater samples at concentrations of 5.32 and 10.5 μ g/L.
- Isopropylbenzene was detected in 1 of the 40 groundwater samples at a concentration of 0.81J μg/L.
- Naphthalene was detected in 3 of the 40 groundwater samples at concentrations ranging from 1.37J to $6.22J \mu g/L$.
- TCE was detected in 4 of the 40 groundwater samples at concentrations ranging from 3.63 J to $116 \mu g/L$.

TCE was the only constituent to exceed its respective MCL or IWQS. As shown in Figure 12, the results from the USACE vertical-profile sampling indicate that TCE is not present along Tubb Street to the west of the site; therefore, the purge facility is probably not the source of TCE contamination at the USTs 25 & 26 site.

II.A.2.b.12. Conclusions of the Horizontal Extent of TCE Groundwater Contamination

At each of the depth intervals shown in Figures 7 through 10, the horizontal extent of the TCE plume appears to be greatest at 10 to 20 ft BGS, and the area decreases with each depth interval. In Figure 7 the area of the plume extends from southwest of the intersection of the drainage ditches and swales to the wooded area to the west and to the northeast of Building 1345. Vertical profile AF-52 contained the

highest TCE concentration (1,780 μ g/L) for this interval during the November/December 2000 sampling event. The installation of vertical profile AF-67 in July 2002 extended the 10-to-20-ft-BGS TCE plume into the wooded area south of AF-52. Four of the five vertical profiles installed in July 2002 had concentrations exceeding the MCL for TCE of 5 μ g/L at the 10-to-20-ft interval.

The highest TCE concentrations occurred at the 20-to-30-ft-BGS interval. In Figure 8 the area of the plume is smaller and extends from the intersection of the drainage ditches and swales to the northeast toward Building 1345. There does not appear to be any contamination in the wooded area at this depth. The highest TCE concentration (7,730 μ g/L) was reported at vertical profile AF-52 during the November/December 2000 sampling event. The samples from AF-43 and AF-45 in November/December 2000 also contained elevated TCE concentrations of 2,600 and 1,510 μ g/L, respectively. The other groundwater samples from this sample interval contained TCE concentrations that were at least an order of magnitude lower than those observed in these samples. Of the five new vertical profiles installed in July 2002, only two, AF-63 and AF-64, reported TCE concentrations above the MCL of 5 μ g/L at this 20-to-30-ft interval.

The TCE concentrations begin to decrease in the 30-to-40-ft-BGS interval. In Figure 9 the area of the plume extends from the northern side of the intersection of the drainage ditches and swales to the northeast of Building 1345. There does not appear to be any contamination in the wooded area at this depth. The highest TCE concentrations were observed in AF-43, AF-45, and AF-52 at 2,030; 1,490; and 631 μ g/L, respectively, during the November/December 2000 sampling event. The other groundwater samples from this sample interval contained TCE concentrations that were at least an order of magnitude lower than those observed in these samples. Only AF-66 of the July 2002 vertical profiles had a TCE concentration close to the TCE MCL of 5 μ g/L; however, when monitoring well AF-68 was installed in the AF-63 location and screened from 36.0 to 40.0 ft BGS, the result from that groundwater sample was 360 μ g/L.

The lowest TCE concentrations were observed in the 40-to-50-ft interval. In Figure 10 the area of the plume extends from the intersection of the drainage ditches and swales north into the motor pool. There does not appear to be any contamination in the wooded area at this depth. The highest TCE concentrations were observed in AF-43, AF-44, and AF-52 at 213, 346, and 516 μ g/L, respectively, in November/December 2000 and in AF-63 at 344 μ g/L in July 2002. The other groundwater samples from this sample interval contained TCE concentrations that were at least an order of magnitude lower than those observed in these samples.

Vertical-profile borings AF-63, AF-64, AF-65, and AF-66 are located on the western and northern portions of the plume. Vertical profile AF-67 is located southeast of the plume. The horizontal extent of TCE contamination was not determined through the installation of these borings. Additional investigations conducted by USACE in the fall of 2002 indicated that the TCE contamination is not coming from the purging facility as previously suspected. Additional vertical profiles should be installed within the motor pool to determine whether previous maintenance activities were the source of the TCE.

II.A.2.b.13. Conclusions of the Vertical Extent of TCE Groundwater Contamination

During the various investigations from 1999 to 2002, groundwater samples were collected at 5-ft intervals from 17 vertical-profile borings and analyzed for VOCs. Figures 7 through 10 show that the size of the TCE plume decreases with depth and that the highest TCE concentrations occur at the 20-to-30-ft interval. This depth correlates with the upper clay layer that was identified in the geophysical survey, found in Attachment A and discussed in Section II.A.2.b.4 of Addendum #1 (SAIC 2001a). TCE was also present in eight of the vertical-profile borings at 40 to 50 ft BGS, but at concentrations lower than those

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observed in the 20-to-30-ft interval except in vertical profiles AF-63 and AF-64. No groundwater samples were collected below 50 ft BGS. The Hawthorn layer might correspond to a portion of the lower clay layer that was identified in the geophysical survey; therefore, the top of the Hawthorn layer is expected to be located approximately 50 to 70 ft BGS.

II.A.3. Delineation of Free Product Plume

No free product was identified at the USTs 25 & 26 site during the previous investigations, CAP-Part A SI, CAP-Part B SI, or supplemental investigations. Free product was detected in AF-12 in January 2003 during semiannual monitoring and is being addressed in the monitoring only reports.

II.A.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).

II.B. REGIONAL, LOCAL, AND SITE HYDROGEOLOGY

A discussion of the regional, local, and site hydrogeology was presented in the CAP–Part B report (SAIC 2000) and is repeated in this document for convenience.

II.B.1. Documentation of Local Groundwater Conditions

II.B.1.a. Groundwater Usage

According to the Fort Stewart DPW, nine water supply wells are located within the confines of the HAAF area (Figures 12 and 13). These wells have the potential to provide up to 3,890 gal/min (gpm) of water to occupants of the HAAF installation. The Fort Stewart DPW was unable to provide documentation listing the companies responsible for well installation and drillers' logs showing as-built information and subsurface geologic data. Information concerning such documentation was requested from several water well drilling companies in the Chatham County area; however, data were procured with very limited success. The Fort Stewart DPW provided well locations, pumping rates, treatments, casing depths, and total depths for eight of the nine wells located at HAAF. Because of the lack of data, documentation of subsurface geology based on HAAF drilling logs remains extremely limited; therefore, other references containing deep-well information were used to document the subsurface geology and aquifer characteristics underlying HAAF and its vicinity.

Wells 1 and 2, both public water supply wells located in the cantonment area, constitute the main water supply system at HAAF (Figure 14). Well 1, located at Building 711 on the corner of Moore Road and Douglas Street, is a 12-in.-diameter well with a 100-hp turbine pump serving a 100,000-gal elevated storage tank (Tank 1) through 10-in. lines. Water from Well 1 is injected with hydrofluosilic acid and chlorine gas solution at the well house. Well 2, located at Building 1205 on the corner of Neal Street and Strachan Road, is a 12-in.-diameter well with a 100-hp turbine pump serving a 200,000-gal elevated tank (Tank 2) through 10-in. lines. Water from Well 2 is also injected with hydrofluosilic acid and chlorine gas solution at the well house. Wells 1 and 2 provide water to a 500,000-gal elevated storage tank (Tank 3) located on Middleground Road behind the Noncommissioned Officer family housing. This tank provides potable water to 694 service connections, which are used by an average of at least 5,000 individuals year-round.

Wells 3, 4A, and 7 are public supply wells located outside the cantonment area of HAAF. Well 3, located at Building 8455, is a 4.0-in.-diameter well with a 1.0-hp electric submersible pump serving a 1,000-gal hydropneumatic storage tank through 1.5-in. galvanized steel lines. Water from Well 3 is treated with

calcium hypochlorite solution and is consumed by approximately 25 people during daytime hours year-round. Well 4A, located at Building 8581 at the 117th Air National Guard Facility, is a 4.0-in.-diameter well. Pumping is accomplished with a 0.75-hp turbine pump with 80 gpm capacity. Well 4A provides water for approximately 50 people per day year-round. Well 7 is located at Building 8703 on the Forest River, west of Rio Road. Well 7 is a 4.0-in. well with a 3.0-hp submersible pump serving a 5,000-gal hydropneumatic tank through 2.0-in. galvanized steel lines. Well 7 serves approximately 500 people on a part-time basis. Sanitary protection for Wells 3, 4A, and 7 is provided by a pump motor block, concrete slab, sealed wellhead, and screened casing vent.

Based on the GA EPD criteria of serving potable water to fewer than 25 occupants per day and having fewer than 15 service connections, Wells 5, 8, and 9 are classified as nonpublic supply wells.

Well 10 is a non-potable water source, and the water is used for the cleaning of military equipment at a wash-rack facility. Additional information, including capacity, borehole depth, and casing depth, is not available.

The locations of supply wells found outside the boundary of HAAF are shown on Figure 13. These wells include 1, 42, 13, 25, 15, 27, 14, 23, 6, and 9. The City of Savannah Bureau of Water Operations was unable to provide drilling logs or as-built well information.

The USTs 25 & 26 site is located approximately 3,000 ft southeast (downgradient) of HAAF Well 2, which is located at Building 1205 on Strachan Drive; therefore, the USTs 25 & 26 site is classified as being more than 500 ft from a withdrawal point. Well 2 is part of the main public water supply system at HAAF. This system supplies water to approximately 7,500 people through 525 service connections.

II.B.1.b. Aquifer Description

The hydrogeology in the vicinity of HAAF is mostly influenced by two aquifer systems. These are referred to as the Principal (Floridan) Aquifer and the surficial aquifer (Miller 1990). The Principal 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, which is approximately 800 ft thick, is primarily composed of Tertiary-age limestone including the Bug Island Formation, Ocala Group, and Suwannee Limestone. Groundwater from the Floridan is primarily used for drinking water (Arora 1984). According to Miller (1990), one of the largest cones of depression produced in the Floridan Aquifer exists directly beneath Savannah, Georgia. According to 1980 estimates, more than 500 M gal of water per day are withdrawn from the Floridan Aquifer for public and industrial use in southeast Georgia, more than any other region.

The confining layer for the Floridan Aquifer is the phosphatic clay of the Hawthorn Group. There are minor occurrences of aquifer material within the Hawthorn Group; however, they have limited use (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, and is primarily composed of the Satilla and Cypresshead Formations in the Savannah vicinity (Arora 1984). This aquifer is primarily used for domestic lawn and agricultural irrigation. The top of the water table ranges from approximately 2 to 10 ft BGS. Groundwater in the surficial aquifer system is under unconfined, or water table, conditions; however, locally, thin clay beds create confined or semiconfined conditions.

Groundwater encountered at HAAF UST investigation sites is part of the surficial aquifer system. Based on the fact that all public and nonpublic 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.

II.B.1.c. Surface Water

The water resources survey conducted during the CAP-Part A SI was presented in the CAP-Part B report (SAIC 2000). 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 (Figure 14). 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 east 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.

In the direction of groundwater flow, a drainage ditch is located approximately 75 ft southeast of the site. Based on the surface water features discussed, the USTs 25 & 26 site, Facility ID #9-025008, is classified as being located fewer than 500 ft from a surface water body.

There are numerous water and electrical underground utilities located southeast (downgradient) of the site. The depth of these lines is estimated to be approximately 2 to 3 ft BGS. In addition, a force main for the sanitary sewer is located approximate 5 ft southeast of the UST 25 tank. The invert depth of this line is approximately 3.0 ft BGS. Three wells are located adjacent to the force main, and in March 2001 the depths to groundwater in these wells were 4.33 ft in AF-01, 4.43 ft in AF-07, and 4.50 ft in AF-20. The invert depth of the force main is located approximately 1.5 ft above the water table; therefore, the force main is not considered a potential receptor.

II.B.2. Stratigraphic Boring Logs

The local stratigraphy of HAAF and its vicinity is presented in Section II.B.2.a, and the site stratigraphy from the CAP–Part A and CAP–Part B SIs is presented in Section II.B.2.b.

II.B.2.a. Local Stratigraphy

HAAF is located within the Barrier Island Sequence District of the Coastal Plain Physiographic Province of the Southeast United States (Clark and Zisa 1976). The Barrier Island Sequence District in Chatham and Bryan Counties is characterized by the existence of several marine terraces (step-like topographic surfaces that decrease in elevation toward the coast). These marine terraces, and their associated deposits, are the results of sea level fluctuations that occurred during the Pleistocene epoch. The surficial (Quaternary) deposits in Chatham and Bryan Counties are part of the Okefenokee, Wicomico, Penholoway, Pamlico, and Silver Bluff Terrace complexes, listed in decreasing order of elevation and age.

HAAF, as well as most of Chatham County, is underlain by the Pleistocene Pamlico Terrace. The Pleistocene Satilla Formation (formerly known as the Pamlico Formation) consists of deposits of the Pamlico Terrace complex and other terrace complexes in the region. The Satilla Formation is a lithologically heterogeneous unit that consists of variably bedded to non-bedded sand and variably bedded silty to sandy clay. During the Pleistocene these sand and clay deposits were formed offshore and in inner continental shelf, barrier island, and marsh/lagoonal-type environments. According to the *Geologic Map of Georgia* (GA EPD 1976), clay beds of marsh origin, which were deposited on the northwestern side of

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the former Pamlico Barrier Island complex, exist in the western quarter of HAAF. Very fine- to coarse-grained sand deposits of barrier island origin are more common throughout the remaining areas of HAAF.

II.B.2.b. Site Stratigraphy

As determined from soil borings drilled during the CAP-Part B SI, the lithologies present within 15 ft of the surface at the USTs 25 & 26 site appear to correlate with the regional stratigraphic section. CAP-Part B soil boring logs are provided in Appendix IV. The lithology underlying the study area consists of interbedded layers of sand with varying amounts of silt and clay.

II.B.3. Stratigraphic Cross Sections

Stratigraphic cross sections have been developed and were presented in the CAP-Part B report (SAIC 2000).

II.B.4. Geotechnical Analysis

Soil samples were collected for geotechnical analysis during the CAP-Part B investigation, and the results were presented in the CAP-Part B report (SAIC 2000).

II.B.5. Direction of Groundwater Flow

II.B.5.a. Well Construction Details

During the supplemental investigation activities in 2000, 2001, and 2002, the monitoring well casing consisted of 2-in.-inside-diameter, Schedule 40, flush-threaded polyvinyl chloride risers and screens in 5-and 10-ft sections. The well screen slot size was 0.010 in. Table 3 summarizes construction details for monitoring wells installed at the site during the supplemental investigations in 2000, 2001, and 2002. Well construction diagrams are presented in Appendix VII. The wells were screened either across or below the water table, depending on the results of the vertical-profile sampling. Following installation of the well casing, filter-pack sand was poured while the augers were gradually removed to ensure a complete and even distribution of the filter pack. The filter pack extended to a measured level at least 0.5 ft above the top of the well screen.

Well seals were composed of 3/8-in. bentonite pellets and allowed to hydrate before filling the annular space above the seal. The total volume of potable water used to hydrate the pellets averaged 2 gal per well. The well seal extended to a measured level of at least 0.5 ft above the top of the filter pack.

Above the well seal the remaining annular space was completed with a 1.0-ft-long, flush-mount, sheet-steel protective casing that was grouted in place with a 14-in.-diameter by 4-in.-thick, high-strength concrete pad. Well casings were capped with expandable locking caps. Protective casings were covered with bolted, cast-iron manhole covers. Inscribed monitoring well identification plates were permanently affixed to the inside of each manhole cover.

II.B.5.b. Potentiometric Mapping

Water-level measurements were collected from existing monitoring wells during the CAP-Part A, CAP-Part B, and various supplemental investigations. Data obtained from these measurements are presented in Table 4. During the CAP-Part A investigation in November 1998, groundwater flowed to the south-southeast with a gradient of 0.020 ft/ft. During the CAP-Part B investigation in December 1999, groundwater flowed to the south-southeast with a gradient of 0.018 ft/ft. The groundwater flow direction

during the two semiannual sampling events under the Monitoring Only Plan was similar to the flows observed during the CAP-Part A and CAP-Part B investigations. In March 2001 the groundwater flow directions for the shallow and deep surficial portions of the aquifer were to the south-southeast with gradients of 0.025 ft/ft and 0.0125 ft/ft, respectively. During the December 2002 sampling event, groundwater flow directions for the shallow and deep surficial portions of the aquifer (Figures 14 and 15) were to the south-southeast with gradients of 0.031 ft/ft and 0.017 ft/ft, respectively.

II.B.5.c. Equipotential Flow Net

Equipotential flow nets based on December 2002 water-level measurements and the contoured potentiometric surfaces are presented in Figures 14 and 15 for the shallow and deep surficial portions of the aquifer, respectively.

III. REMEDIAL ACTION PLAN

III.A. CORRECTIVE ACTION COMPLETED OR IN PROGRESS

III.A.1. Recovery/Removal of Free Product

Free product was identified at the USTs 25 & 26 site during the semiannual monitoring event conducted in January 2003. Documentation and discussion of the free product are being conducted under the monitoring only program for the BTEX plume and the corresponding monitoring only report.

III.A.2. Remediation/Treatment of Contaminated Backfill Material and Native Soil

During UST closure activities in 1998, the tanks were closed in place with a concrete slurry. Soil was not excavated or remediated during in-place closure activities. No further excavation of potentially contaminated backfill or native soil has occurred at the USTs 25 & 26 site.

III.B. OBJECTIVES OF CORRECTIVE ACTION

III.B.1. Remove Free Product that Exceeds One-Eighth Inch

The previous investigations, CAP-Part A SI, and CAP-Part B SI determined that there is no evidence of free product at the USTs 25 & 26 site; however, free product was measured in AF-12 during the January 2003 semiannual sampling event. Documentation and discussion of the free product are being conducted under the monitoring only program for the BTEX plume and the corresponding monitoring only report.

III.B.2. Remediate Groundwater Contamination

The CAP–Part B report (SAIC 2000) documented benzene contamination in groundwater that exceeded the IWQS of 71.28 μ g/L and the ACL of 340 μ g/L. As a result a Monitoring Only Plan was recommended in the CAP–Part B report consisting of semiannual monitoring of four shallow wells (i.e., AF-02, AF-05, AF-07, and AF-12) for BTEX. The monitoring only program that was approved in correspondence dated August 14, 2000 (Logan 2000) was initiated in June 2000. The fate and transport modeling results were revised in the first annual monitoring only report (SAIC 2001b) using the results from the semiannual monitoring events to calibrate the model. Because of the revised fate and transport modeling results, a revised ACL for benzene of 1,076 μ g/L was proposed for the site in the first annual monitoring only report (SAIC 2001b). As of February 2003 GA EPD had not provided a technical review of the first annual monitoring only report. The second annual monitoring only report (SAIC 2002) was submitted to GA EPD in July 2002. The third annual monitoring only report is scheduled for submittal in July 2003.

In addition to the BTEX contamination at the site, the CAP-Part B documented the presence of TCE in groundwater. Additional investigation activities have been conducted since the CAP-Part B investigation in 1999 and are documented in Addendum #1 (SAIC 2001a) and in this report. The source of the TCE contamination still has not been identified. The vertical extent of the contamination was determined in the supplemental sampling activities in 2000; however, the horizontal extent of TCE has not been determined. Additional investigative activities are necessary to determine the horizontal extent and source of the TCE plume prior to remediation. Additional vertical-profile borings and deep wells are recommended in the motor pool around Building 1336 (Figure 17). Additional geophysical survey activities within the motor pool might also prove useful in interpreting the contaminant data underlying the motor pool.

III.B.3. Remediate Soil Contamination

The CAP-Part B report (SAIC 2000) concluded that the soil did not need to be remediated because the benzene concentrations during the CAP-Part A and CAP-Part B investigations were below the proposed alternate threshold level (ATL) of 0.159 mg/kg for benzene. The report recommended confirmatory soil sampling in the vicinity of closure sample HAAF-260-PIPE-D-2-S because this was the only location in which benzene in soil exceeded the ATL. The CAP-Part B report was approved in correspondence dated August 14, 2000 (Logan 2000).

III.B.4. Provide Risk-Based Corrective Action

A risk-based approach was used in the CAP–Part B report (SAIC 2000) to identify constituents of potential concern (COPCs) for soil and groundwater and to develop ATLs and ACLs for various constituents.

In summary, benzene was identified as a COPC for soil and benzene, benzo(*a*)pyrene, and naphthalene were identified as COPCs for groundwater. An ATL for benzene of 0.159 mg/kg was proposed in the CAP–Part B report (SAIC 2000) and approved by GA EPD in correspondence dated August 14, 2000 (Logan 2000). One soil sample collected during the in-place closure exceeded this ATL for benzene. ACLs for benzene, benzo(*a*)pyrene, and naphthalene of 340; 936; and 23,400 μg/L, respectively, were proposed in the CAP–Part B report. Benzene was the only compound to exceed its ACL during the CAP–Part B investigation.

The fate and transport modeling results were provided in the CAP–Part B report (SAIC 2000). The ditch located 75 ft southeast (downgradient) of the site is the nearest possible location at which a receptor might encounter migrating groundwater contamination as a result of a possible hydraulic connection between the groundwater and surface water. Modeling of leaching to groundwater by percolating rainwater was performed using the Seasonal Soil Compartment Model to determine the predicted maximum concentration in the leachate at the water table interface. The predicted leachate concentration of 7,130 µg/L was below the maximum groundwater concentration of 9,940 µg/L at the source. The Analytical Transient 1-, 2-, 3-Dimensional Model was calibrated to the maximum observed concentration of benzene (i.e., 9,940 µg/L) assuming a steady-state (continuous) concentration at the source.

Based on modeling results the estimated dilution attenuation factor (DAF) for benzene at the drainage ditch is 4.8. The estimated DAF for naphthalene at the drainage ditch is 3,600. The modeling results indicated that benzene should be reaching the ditch at a concentration of 2,080 μ g/L, which is above the Georgia IWQS of 71.28 μ g/L, thereby predicting that the surface water is impacted by the current site conditions. Actual groundwater results indicate, however, that groundwater contamination in excess of the IWQS does not reach the drainage ditch, and surface water and sediment samples from the drainage ditch indicate that they are not being impacted by the site; therefore, the surface water body adjacent to the USTs 25 & 26 site, Facility ID #9-025008, is not impacted by former UST operations.

Considering the site characteristics, natural attenuation was recommended as the corrective action for the benzene plume. Groundwater concentrations during the CAP–Part B investigation exceeded the proposed ACL of 340 μ g/L in one monitoring well; therefore, a Monitoring Only Plan was recommended and implemented beginning in June 2000.

III.C. DESIGN AND OPERATION OF CORRECTIVE ACTION SYSTEMS

For the benzene plume, the CAP-Part B report (SAIC 2000) recommended a Monitoring Only Plan that consisted of semiannual monitoring of wells AF-02, AF-05, AF-07, and AF-12, which would be sampled

for BTEX. In addition, it was recommended that groundwater samples be collected from deep wells AF-40, AF-41, and AF-42 and analyzed for VOCs. The second annual monitoring only report (SAIC 2002) recommended discontinuing the monitoring of the three deep wells for VOCs in the monitoring only program because of additional investigation activities related to the TCE plume.

The horizontal extent of the TCE plume has not been fully determined; therefore, it is not appropriate to recommend a corrective action at this point. Thirteen additional vertical-profile borings should be installed around Building 1336 to determine the extent of contamination in that direction and whether maintenance activities in that building are a source of TCE. These borings should be converted to deep monitoring wells based on the results of the vertical-profile sampling. It is also recommended that the geophysical survey be extended to cover the area within the motor pool of the USTs 25 & 26 site where TCE is present at greater depths.

III.D. IMPLEMENTATION

III.D.1. Milestone Schedule

A milestone schedule for the Monitoring Only Plan was provided in the CAP-Part B report (SAIC 2000). Semiannual sampling events are conducted in January and June/July of each year, with the annual monitoring only report being submitted in July of each year.

A Gantt chart showing milestone activities and the expected duration for the proposed additional investigation activities for the TCE plume will be submitted upon approval of this addendum report.

III.D.2. Progress Reporting

Annual monitoring reports will be submitted to GA EPD in July of each year that will summarize all previous annual sampling events.

III.D.3. Certificate of Completion Report

Petition for permanent closure will be submitted with the final monitoring only report. GA EPD will provide final approval for decommissioning of the monitoring wells, which will be requested in the final monitoring only report. Decommissioning of monitoring wells will be completed in accordance with the USACE design manual for monitoring wells. Decommissioning will comply with all applicable state and federal standards.

The certification below 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, USTs 25 & 26 site, Facility ID #9-025008, including any and all certified amendments 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)

III.D.4. Inspection Schedule and Preventative Maintenance Program

During each sampling event, wells will be visually inspected for changes or damage. Any notable observations will be recorded in the subsequent monitoring only report. Any required repairs to ensure that the monitoring wells remain in conformance with GA EPD and U. S. Environmental Protection Agency (EPA) performance standards will be made as needed.

III.D.5. Periodic Monitoring

As approved in the CAP–Part B report (SAIC 2000), groundwater samples from AF-02, AF-05, AF-07, and AF-12 will continue to be collected semiannually and analyzed for BTEX. Monitoring will continue at the site until sampling indicates that benzene concentrations in the four shallow wells are below the revised ACL of 1,076 μ g/L. Once the benzene levels have decreased, continued monitoring of TCE will be addressed under a future document after the extent of that contamination has been determined. The third annual monitoring only report is scheduled to be submitted to GA EPD in July 2003.

During each sampling event, water levels will be measured in all monitoring wells. Specific conductivity, pH, and temperature analyses will be completed on each sample from the monitoring wells at which analytical samples are collected. The samples will be shipped to an approved laboratory for BTEX analysis using EPA Method 8021B/8260B.

III.D.6. Effectiveness of Corrective Action

The Monitoring Only Plan will be discontinued once the objectives of the corrective action have been achieved—that is, to reduce the benzene concentrations in groundwater to below the revised ACL of $1,076~\mu g/L$. Once the benzene levels have decreased and the Monitoring Only Plan for benzene has been discontinued, continued monitoring of TCE will be addressed, if required, after the extent of the TCE contamination has been determined.

III.D.7. Confirmatory Soil Sampling Plan

No excavation of soil is planned; therefore, confirmatory sampling associated with excavation of soil will not be completed. One soil sample collected during the in-place closure contained a benzene concentration above the benzene ATL of 0.159 mg/kg. Once the benzene ACL in groundwater has been achieved, one confirmatory soil sample will be collected from a location adjacent to sample location HAAF-260-PIPE-D-2-S and analyzed for BTEX and PAHs. This information will supercede the data currently being used in the site ranking form.

III.D.8. Stockpiled Bulk Soil Sampling

No stockpiled soil will be generated with this corrective action; therefore, no soil sampling will be conducted.

III.D.9. Monitoring Only Termination Conditions

Concentrations of benzene in groundwater must be at or below the ACL, and benzene in soil must be at or below the ATL prior to termination of the monitoring only program. Once the benzene ACL and ATL have been achieved, monitoring only for the benzene plume can be terminated regardless of the site ranking score.

III.D.10. Post-Completion Site Restoration Activities

After termination has been granted, equipment and debris related to the benzene monitoring program will be removed from the site.

III.E. PUBLIC NOTIFICATION

The USTs 25 & 26 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* in February 2003. A copy of the newspaper announcement used for public notification is presented in Appendix XI of this report.

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IV. CLAIM FOR REIMBURSEMENT

HAAF is a federally owned facility and has funded the investigation for the former USTs 25 & 26 site, Facility ID #9-025008, using Department of Defense Environmental Restoration Funds. Application for GUST Trust Fund reimbursement is not being pursued at this time.

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V. REFERENCES

- 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.
- Clark, W. Z., Jr. and A. C. Zisa 1976. *Physiographic Map of Georgia*, Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey.
- GA EPD (Georgia Environmental Protection Division) 1976. *Geologic Map of Georgia*, Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey (reprinted 1997).
- Logan, William, 2000. Letter to Gregory V. Stanley (Fort Stewart Directorate of Public Works, Environmental Branch), August 14.
- Miller, James A., 1990. *Groundwater Atlas of the United States*, U. S. Department of the Interior, U. S. Geological Survey, Hydrologic Inventory Atlas 730G.
- SAIC (Science Applications International Corporation) 2000. *Corrective Action Plan–Part B for USTs 25 & 26, Facility ID #9-025008, Building 1343, Hunter Army Airfield, Georgia*, February.
- SAIC 2001a. Corrective Action Plan—Part B Addendum #1 for USTs 25 & 26, Facility ID #9-025008, Building 1343, Hunter Army Airfield, Georgia, June.
- SAIC 2001b. First Annual Monitoring Only Report for USTs 25 & 26, Facility ID #9-025008, Building 1343, Hunter Army Airfield, Georgia, July.
- SAIC 2002. Second Annual Monitoring Only Report for USTs 25 & 26, Facility ID #9-025008, Building 1343, Hunter Army Airfield, Georgia, July.

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APPENDIX I

REPORT FIGURES

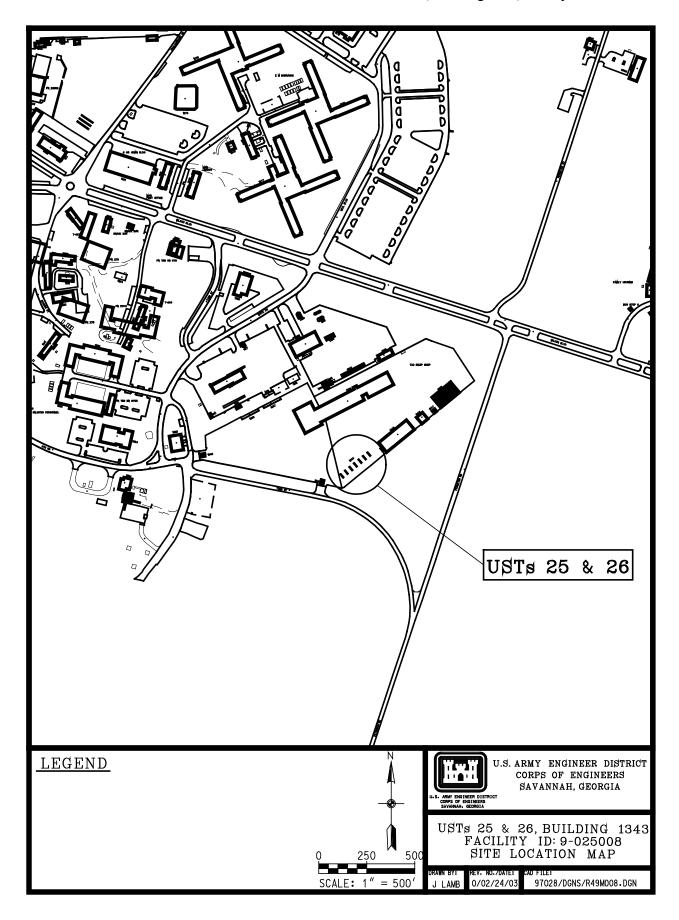


Figure 1. Location Map of the USTs 25 & 26 Site at Hunter Army Airfield, Chatham County, Georgia

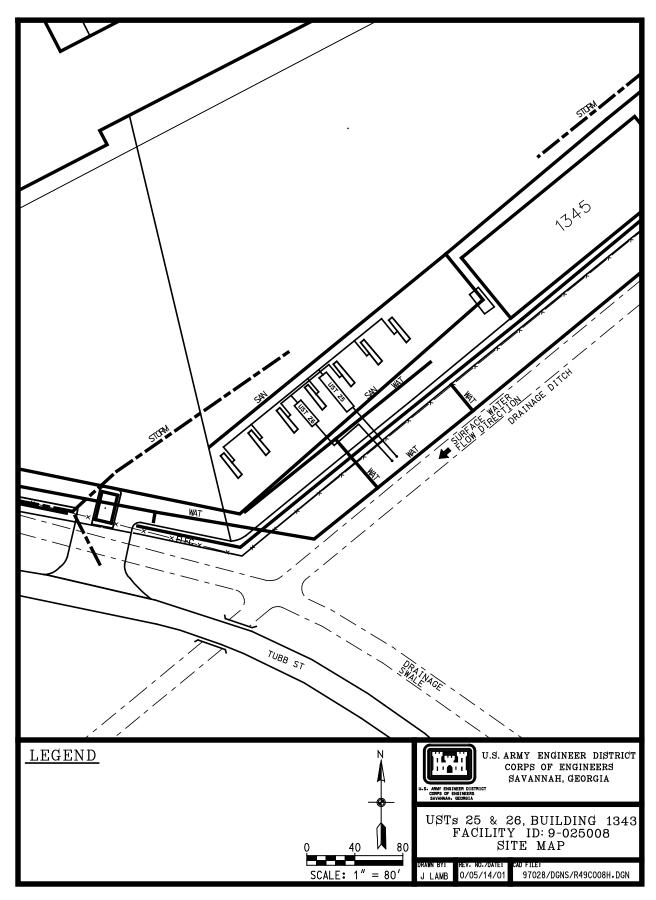


Figure 2. Site Map of the USTs 25 & 26 Site, Facility ID #9-025008

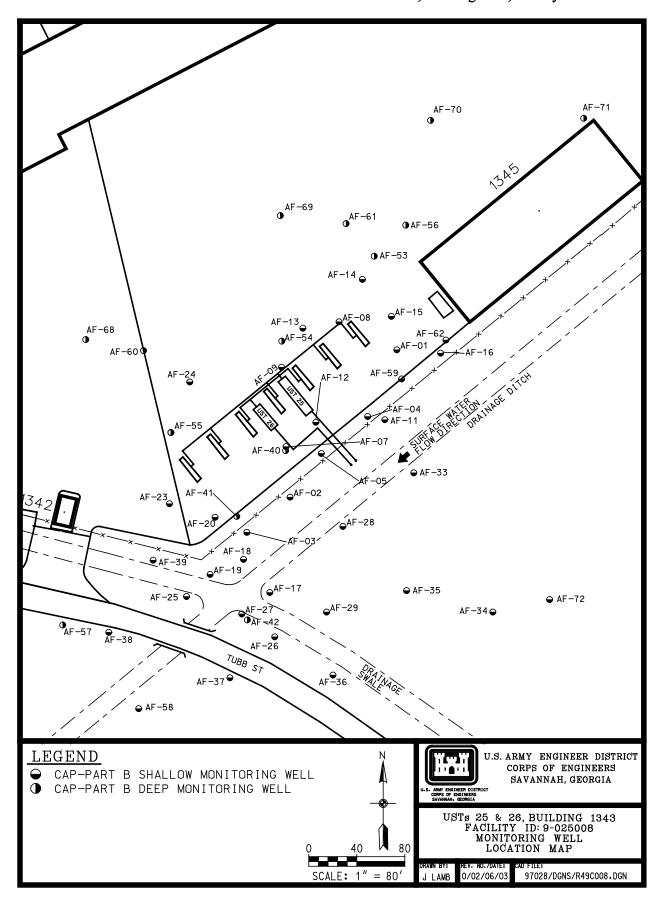


Figure 3. Monitoring Well Location Map of the USTs 25 & 26 Site, Facility ID #9-025008

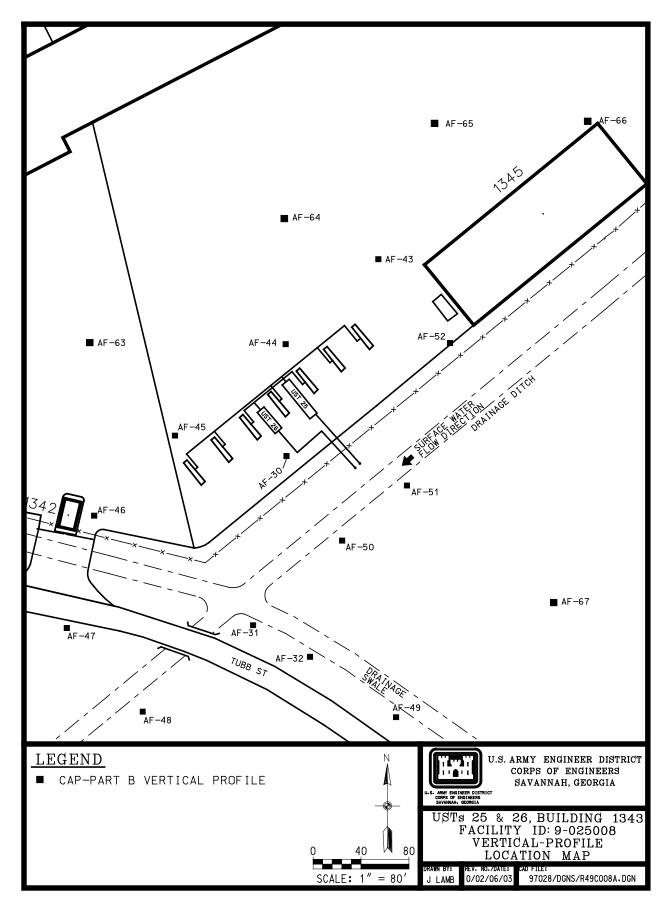


Figure 4. Vertical-Profile Location Map of the USTs 25 & 26 Site, Facility ID #9-025008

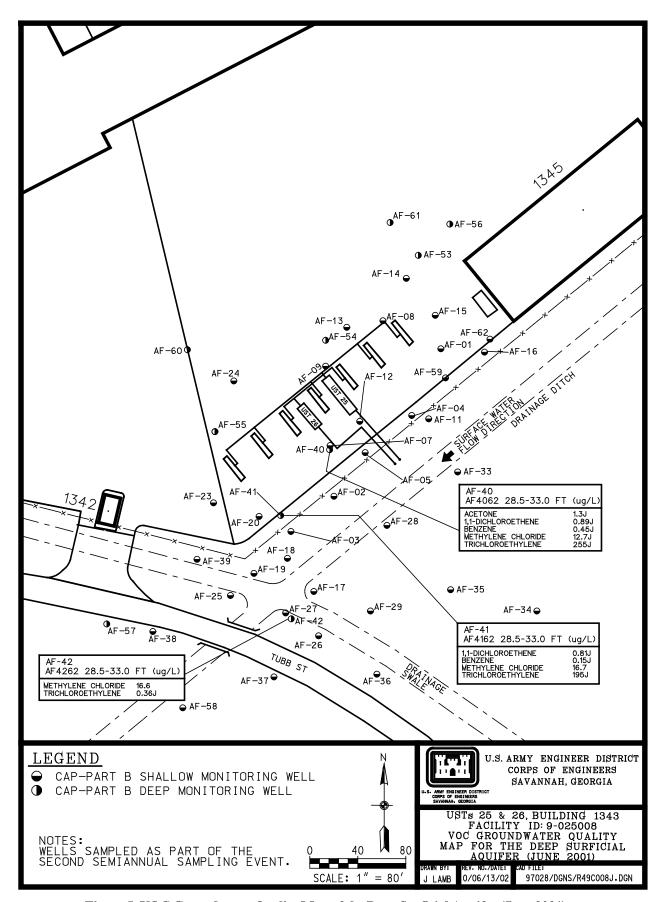
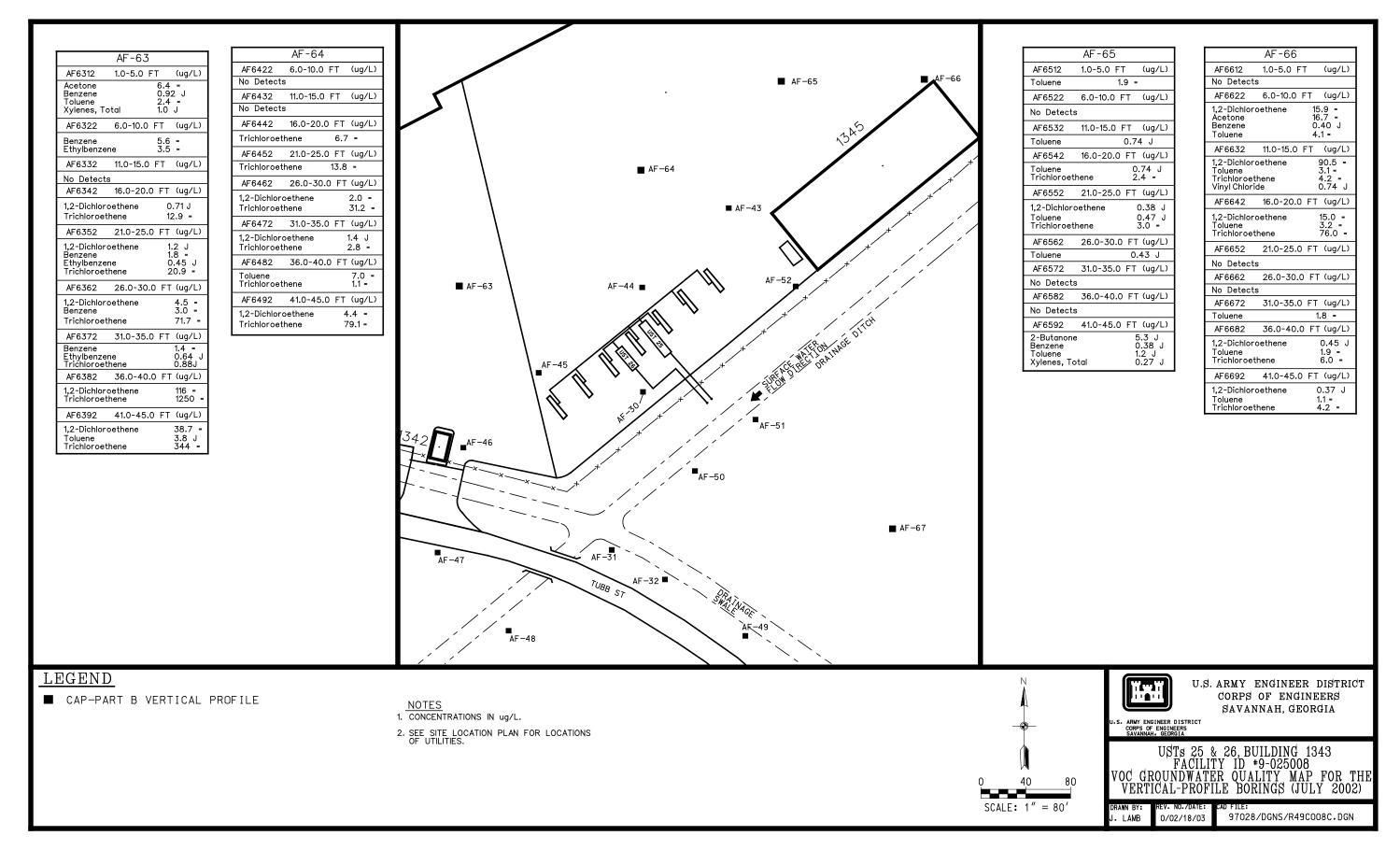
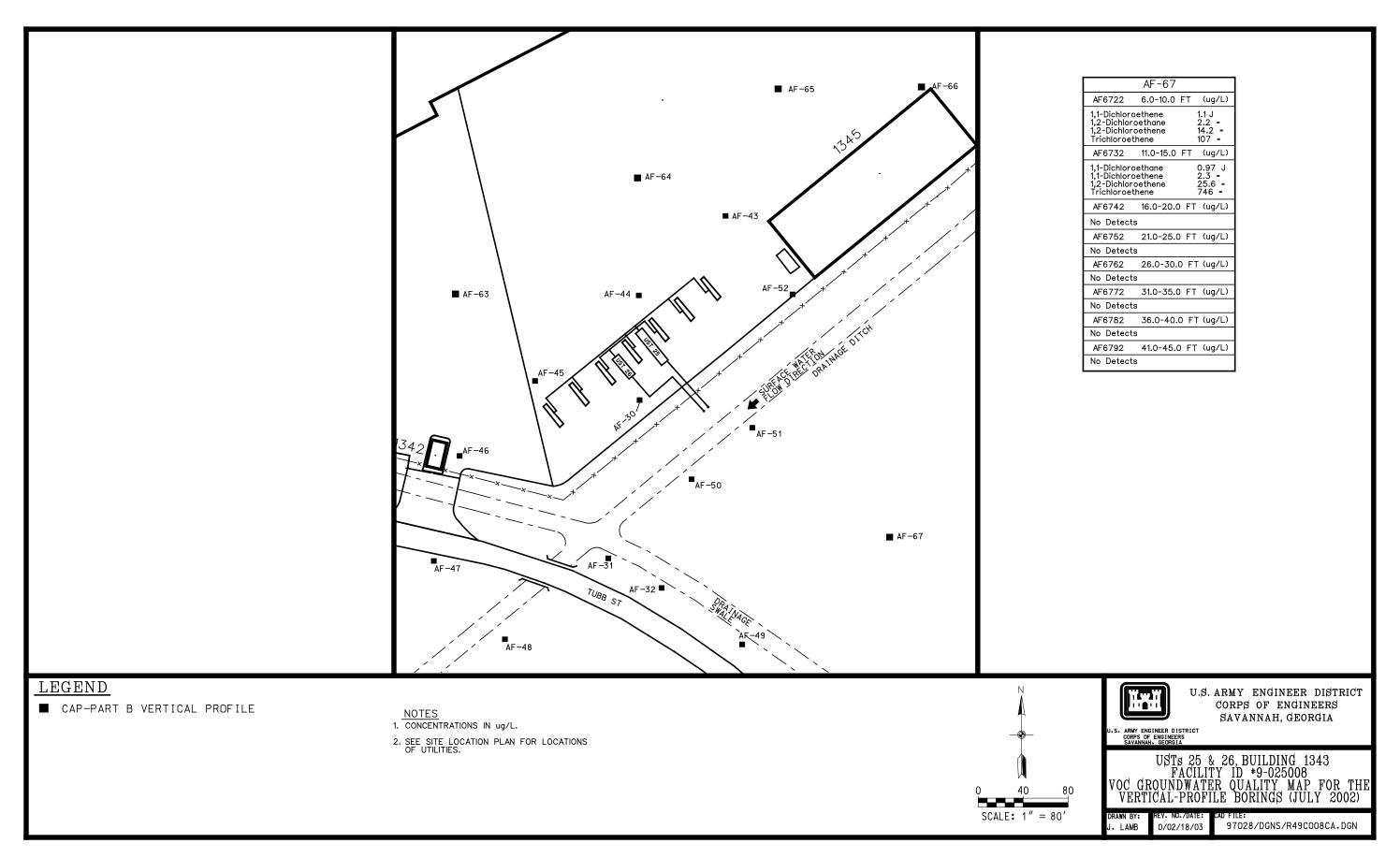


Figure 5. VOC Groundwater Quality Map of the Deep Surficial Aquifer (June 2001) at the USTs 25 & 26 Site, Facility ID #9-025008





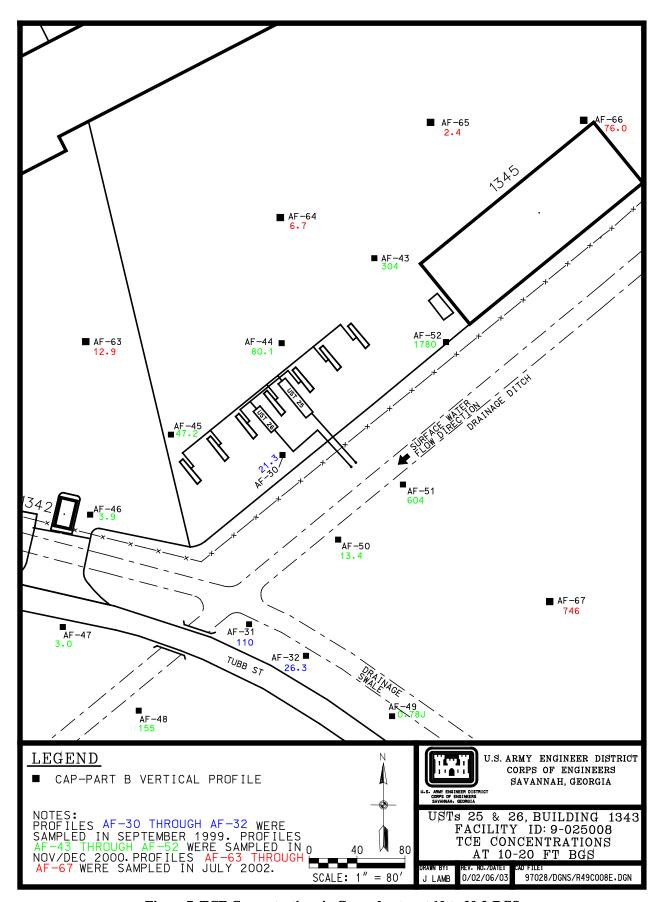


Figure 7. TCE Concentrations in Groundwater at 10 to 20 ft BGS at the USTs 25 & 26 Site, Facility ID #9-025008

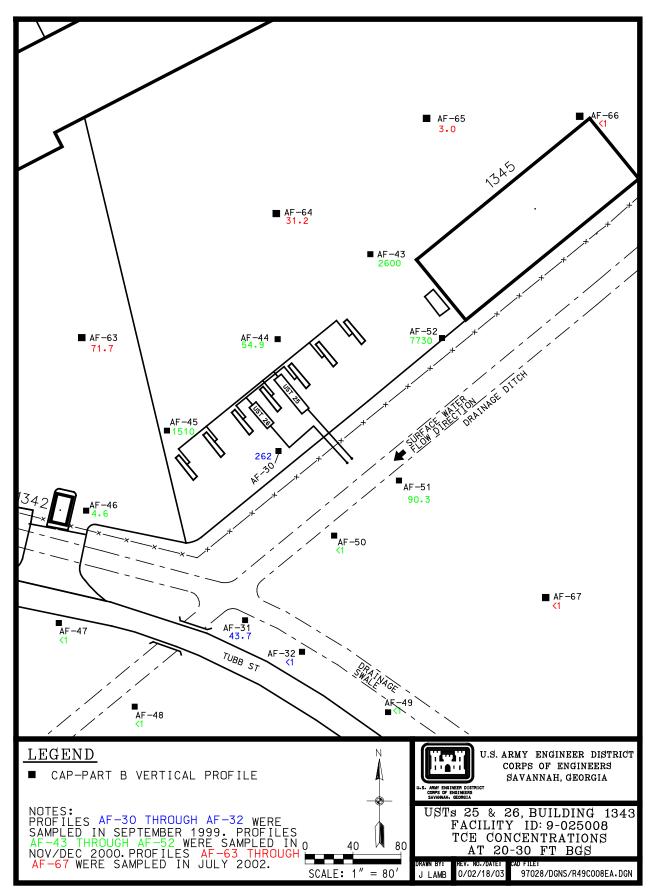


Figure 8. TCE Concentrations in Groundwater at 20 to 30 ft BGS at the USTs 25 & 26 Site, Facility ID #9-025008

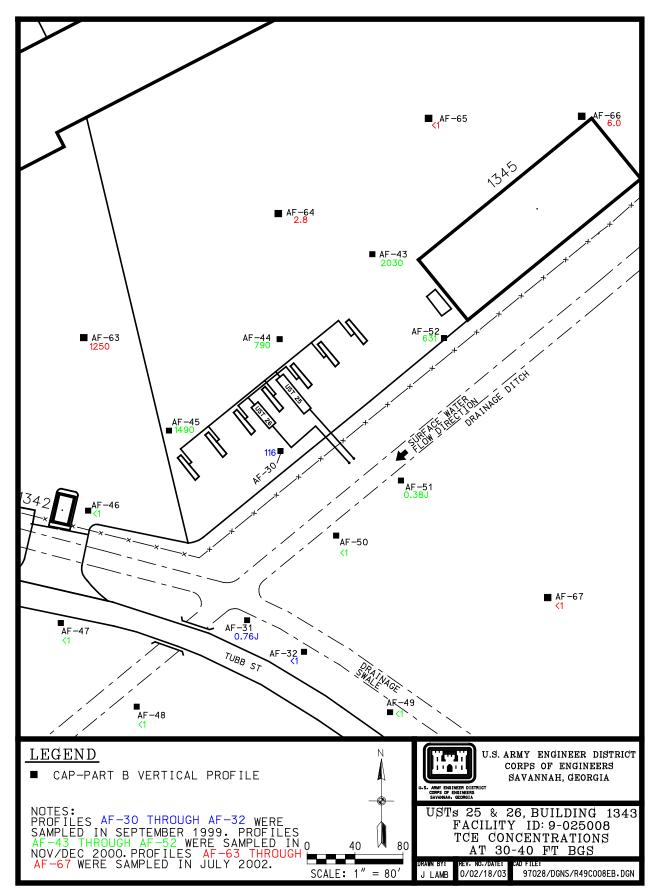


Figure 9. TCE Concentrations in Groundwater at 30 to 40 ft BGS at the USTs 25 & 26 Site, Facility ID #9-025008

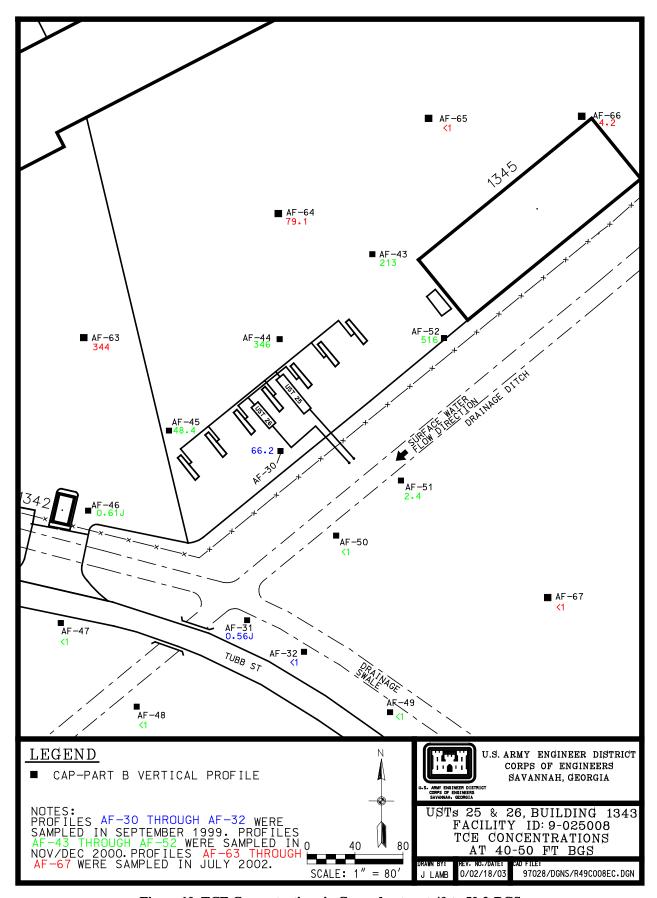


Figure 10. TCE Concentrations in Groundwater at 40 to 50 ft BGS at the USTs 25 & 26 Site, Facility ID #9-025008

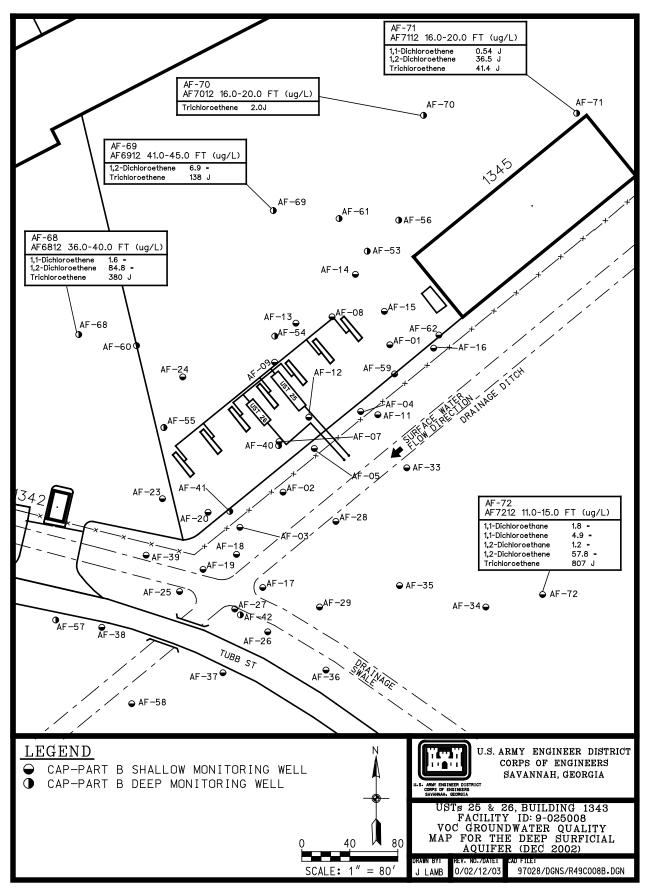


Figure 11. VOC Groundwater Quality Map (December 2002) of the USTs 25 & 26 Site, Facility ID #9-025008

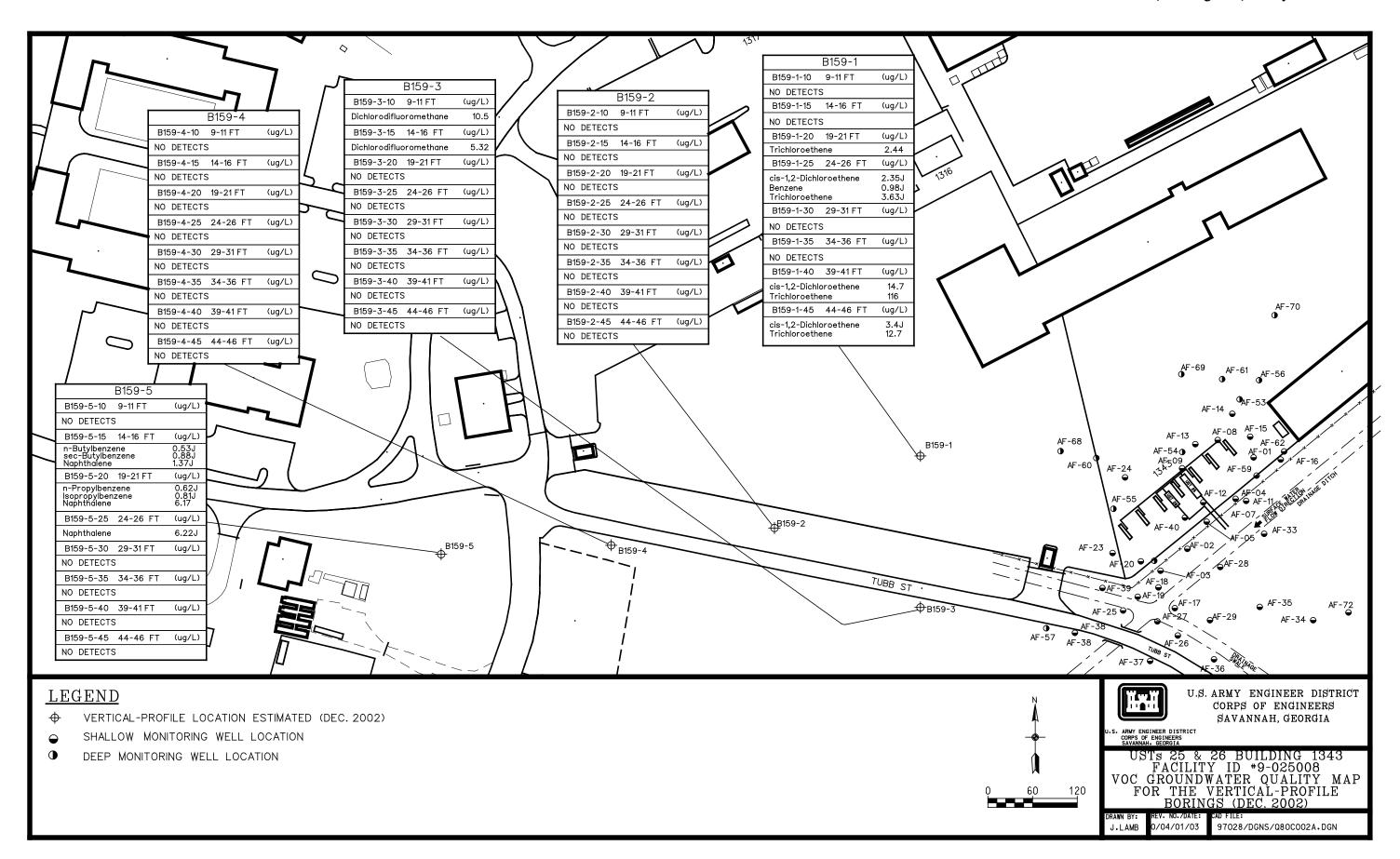


Figure 12. VOC Groundwater Quality Map of the Vertical-Profile Borings (December 2002) at the USTs 25 & 26 Site, Facility ID #9-025008

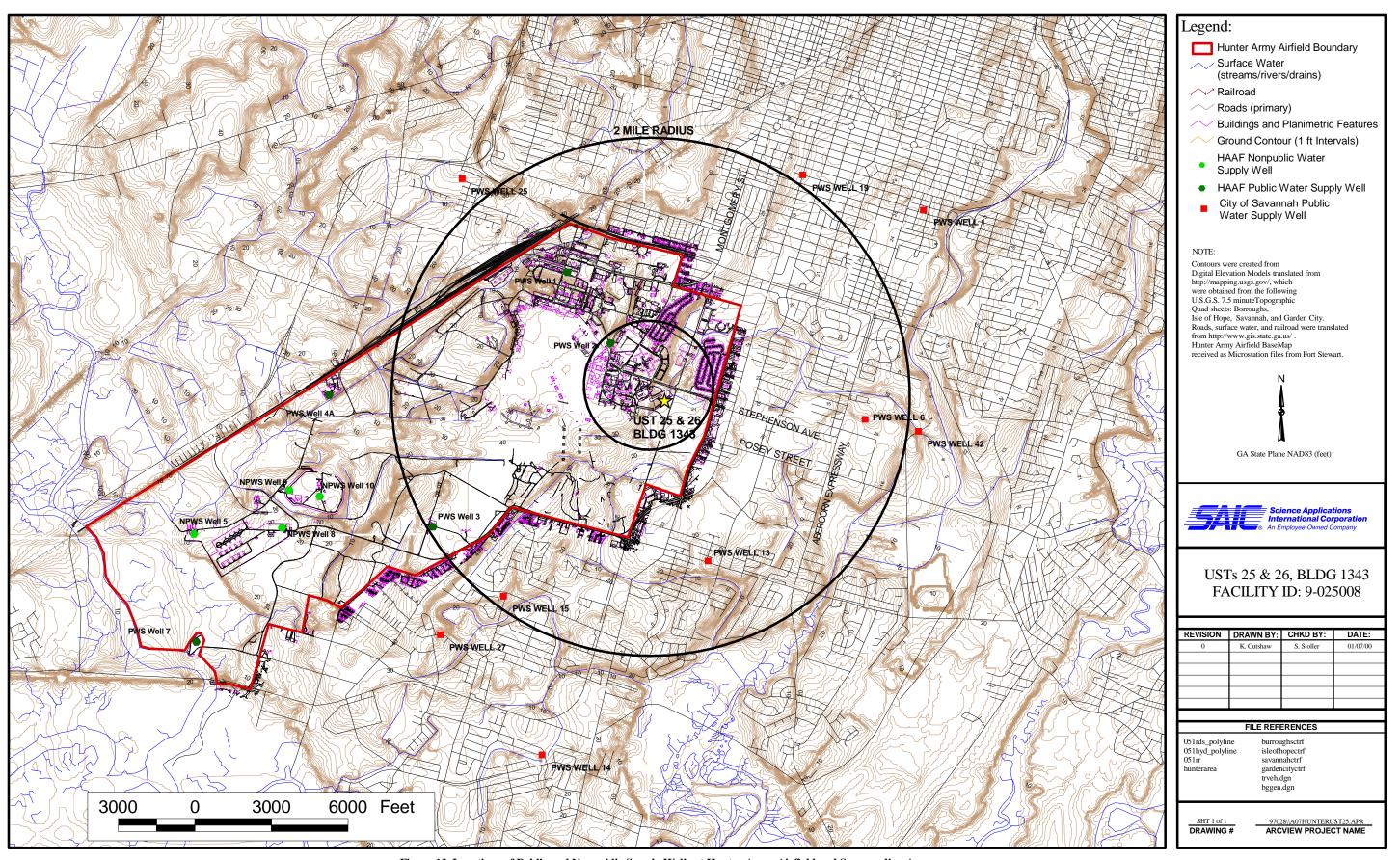


Figure 13. Locations of Public and Nonpublic Supply Wells at Hunter Army Airfield and Surrounding Area

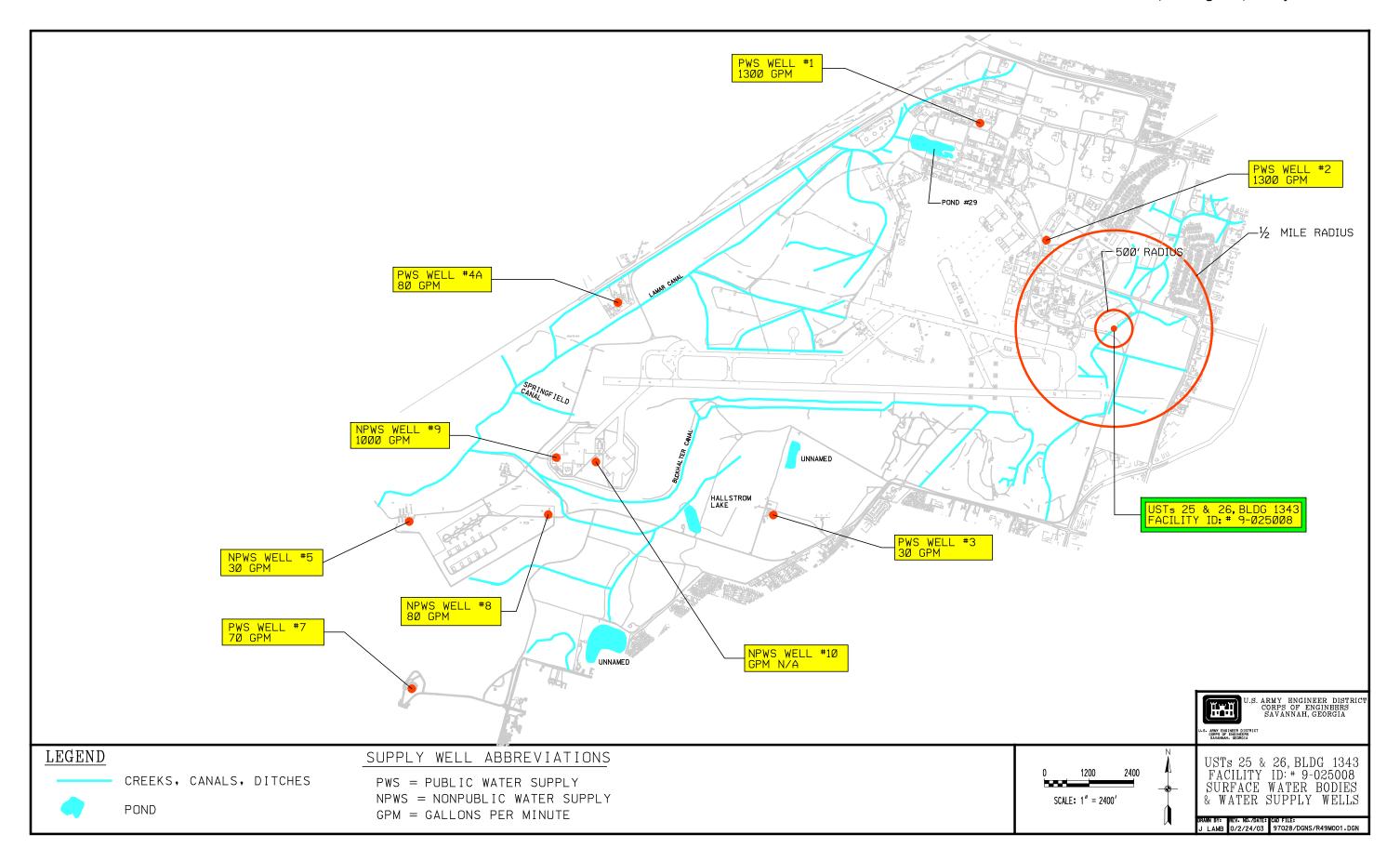


Figure 14. Locations of Surface Water Bodies and Water Supply Wells at Hunter Army Airfield

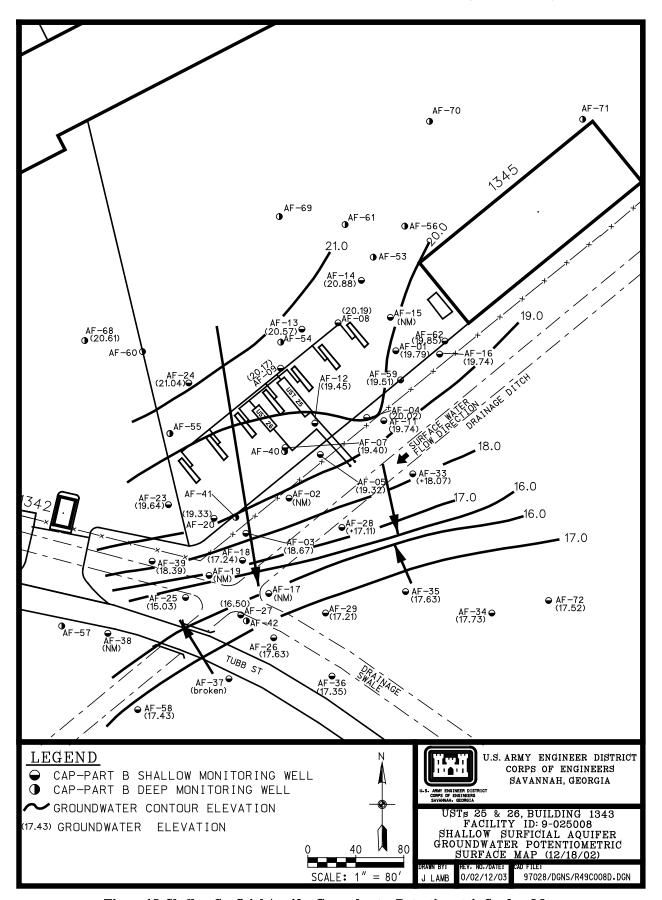


Figure 15. Shallow Surficial Aquifer Groundwater Potentiometric Surface Map and Equipotential Flow Net (December 2002) of the USTs 25 & 26 Site, Facility ID #9-025008

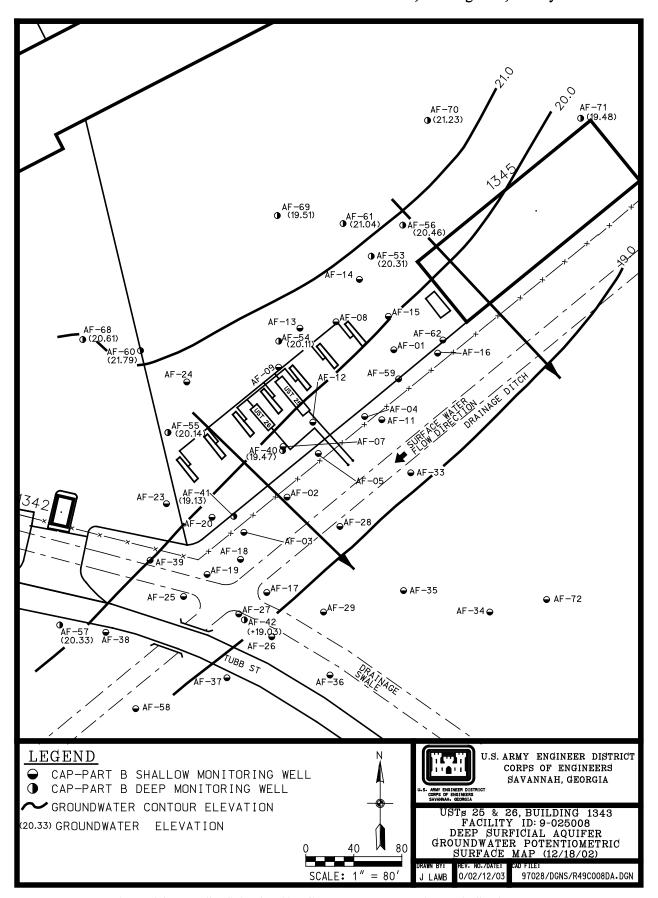


Figure 16. Deep Surficial Aquifer Groundwater Potentiometric Surface Map and Equipotential Flow Net (December 2002) of the USTs 25 & 26 Site, Facility ID #9-025008

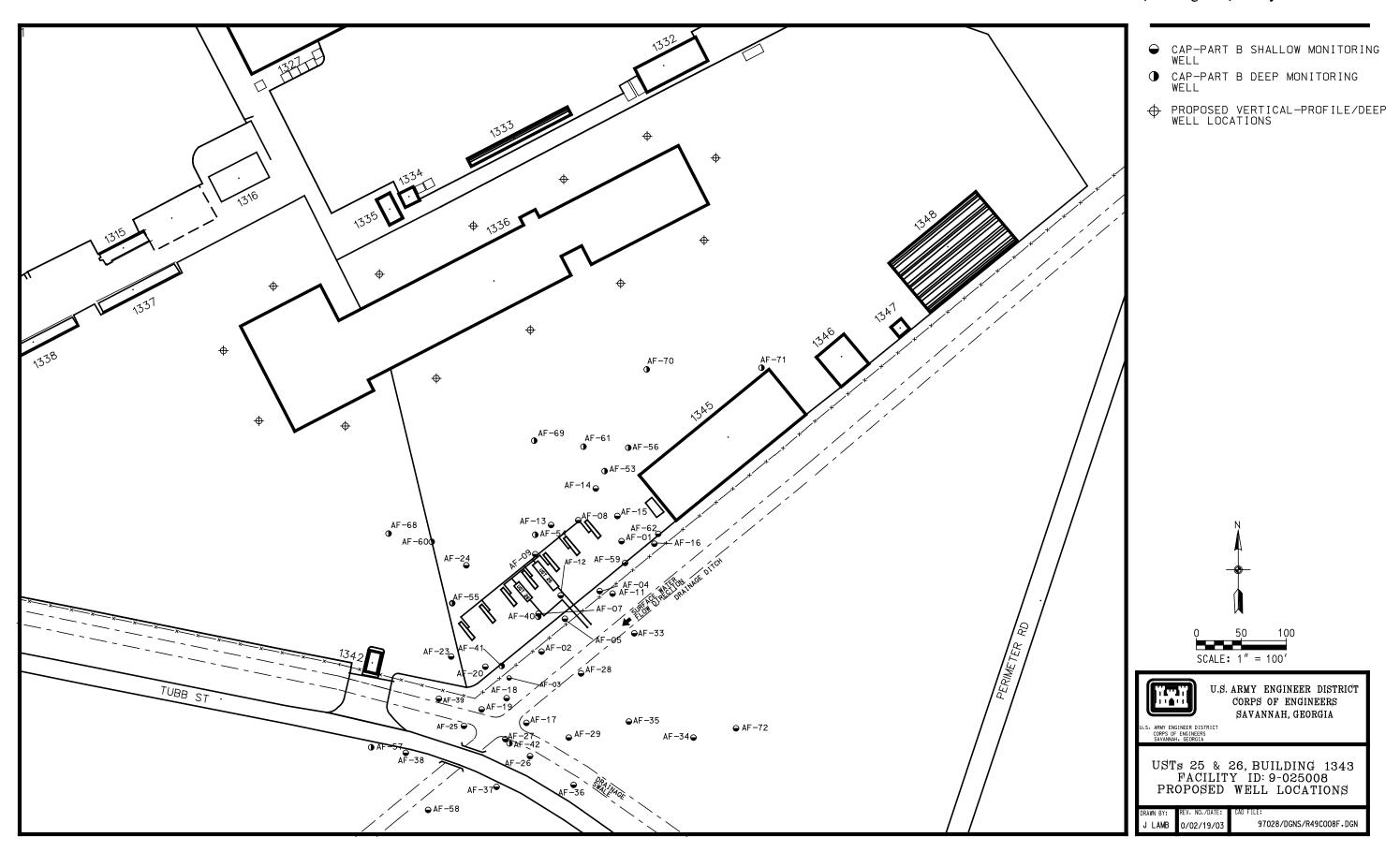


Figure 17. Proposed Vertical-Profile and Well Locations at the USTs 25 & 26 Site, Facility ID #9-025008

APPENDIX II REPORT TABLES

Hunter Army Airfield UST CAP-Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

Table 1. Groundwater Analytical Results

									D	etected	Volati	le Organ	ic Com	pounds (μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
						CAP-	-Part B	Groun	dwater .	Samplir	ıg – Sep	otember 1	1999							
AF-01	AF0122	2.5 - 12.5	09/26/99											1.2 J						
AF-02	AF0222	2.0 - 12.0	09/26/99								11.1 J	8.4 =		0.54 J			0.65 J			
AF-03	AF0322	2.0 - 12.0	09/26/99									2.2 =			1.6 J					0.96 J
AF-04	AF0422	2.0 - 12.0	09/26/99																	
AF-05	AF0522	2.0 - 12.0	09/26/99									11.8 =			9.5 =		3 =			46.5 =
AF-07	AF0722	2.5 - 12.5	09/26/99							40.2 =		9,130 =			493 =		24.8 =			246 =
AF-08	AF0822	2.5 - 12.5	09/26/99										1.1 J							
AF-09	AF0922	2.0 - 12.0	09/26/99				3.9 =					11.8 =			27.7 =					1.4 J
AF-11	AF1122	1.0 - 11.0	09/26/99																	
AF-12	AF1222	2.5 - 12.5	09/26/99									23.4 =		2 J	54.8 =					8.5 J
AF-13	AF1322	2.5 - 12.5	09/26/99				1.5 J													
AF-14	AF1422	1.4 – 11.4	09/26/99										2 J							
AF-15	AF1522	1.5 – 11.5	09/26/99																	
AF-16	AF1622	1.5 – 11.5	09/26/99																	
AF-17	AF1722	2.5 - 12.5	09/26/99				19.9 =					14 =						112 =		
AF-18	AF1822	1.5 – 11.5	09/26/99				13.2 =					10.3 =						1.6 J		
AF-19	AF1922	1.5 – 11.5	09/26/99				8.3 =					3.5 =						2.6 =		
AF-20	AF2022	3.0 - 13.0	09/26/99				1.7 J					2.1 =								
Ma	aximum Co	ntaminant Le	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Wate	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Hunter Army Airfield UST CAP-Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

Table 1. Groundwater Analytical Results (continued)

									D	etected	Volati	le Organ	ic Com	pounds	(μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
AF-23	AF2322	3.0 – 13.0	09/26/99				5.3 =		5.9 J			1.1 J						1.6 J		
AF-24	AF2422	2.0 - 12.0	09/26/99																	
AF-25	AF25222	0.5 - 10.5	09/26/99		0.66 J		40.2 =					4.8 =			0.59 J			243 =	0.6 J	
AF-26	AF2622	2.0 - 12.0	09/26/99				27.9 =					16.6 =		1.5 J				116 =		
AF-27	AF2722	1.0 - 11.0	09/26/99				49.3 =					5.1 J		12.8 J				596 =		
AF-28	AF2822	2.0 - 12.0	09/26/99		0.67 J		41.9 =					3.9 =						60.9 =		
AF-29	AF2922	2.0 - 12.0	09/26/99				9.5 =					53.6 =		1.2 J				11 =	1.8 J	
AF-30	AF3012	11.0 - 15.0	09/26/99				3.3 =			14.2 =		7,670 J		2.2 =	500 J		19 =	1.7 J		72.7 =
AF-30	AF3022	16.0 - 20.0	09/26/99				24 =			15.5 =		2,290 =			168 =		5.5 =	21.3 =	0.88 J	9.6 =
AF-30	AF3032	21.0 - 25.0	09/26/99		0.74 J		33 =					37.9 =		0.95 J	2.7 =		0.55 J	75.9 =		1.8 J
AF-30	AF3042	26.0 - 30.0	09/26/99		2.2 =		90.3 =					16.2 =	1.1 J		1.3 J			262 =		
AF-30	AF3052	31.0 - 35.0	09/26/99		0.62 J		24.3 =					11 =			0.53 J			116 =		0.51 J
AF-30	AF3062	36.0 - 40.0	09/26/99				11.3 =					6.4 =			0.67 J			66.5 =		0.67 J
AF-30	AF3072	41.0 – 45.0	09/26/99				8.7 =					5.5 =			5.5 =		0.78 J	66.2 =		9.3 =
AF-30	AF3082	46.0 – 50.0	09/26/99									6.8 =	1.3 J		1.8 J		0.5 J	0.91 J		2.9 J
Ma	aximum Co	ntaminant Le	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Wate	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									D	etected	Volatil	e Organ	ic Com	pounds	(μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
AF-31	AF3112	6.0 - 10.0	09/25/99				17.9 =					11.1 =						168 =		
AF-31	AF3122	11.0 - 15.0	09/25/99				10.7 =					0.99 J						110 =		
AF-31	AF3132	16.0 - 20.0	09/25/99															2.6 =		
AF-31	AF3142	21.0 - 25.0	09/25/99				16.4=							3 =				43.7 =		
AF-31	AF3152	26.0 - 30.0	09/25/99															1.3 J		
AF-31	AF3162	31.0 - 35.0	09/25/99						1.9 J									1.0 J		
AF-31	AF3172	36.0 - 40.0	09/25/99						1.3 J									0.76 J		
AF-31	AF3182	41.0 - 45.0	09/25/99																	
AF-31	AF3192	46.0 - 50.0	09/25/99															0.56 J		
AF-32	AF3212	11.0 - 15.0	09/25/99				6.4 =					2.1 =						26.3 =		
AF-32	AF3222	16.0 - 20.0	09/25/99						0.93 J								0.52 J			
AF-32	AF3232	21.0 - 25.0	09/25/99											2.9 =						
AF-32	AF3242	26.0 - 30.0	09/25/99																	
AF-32	AF3252	31.0 - 35.0	09/25/99																	
AF-32	AF3262	36.0 - 40.0	09/25/99										0.56 J							
AF-32	AF3272	41.0 - 45.0	09/25/99																	
AF-32	AF3282	46.0 - 50.0	09/25/99	_																
Ma	Maximum Contaminant Level		NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000	
In-St	ream Water	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									D	etected	Volatil	le Organ	ic Com	nounds	(11g/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
AF-33	AF3312	2.3 – 11.8	09/25/99				6.4 =								2.1 =			45.8 =		
AF-34	AF3412	1.4 – 10.9	09/25/99	3.4 =	4.8 =		10.8 =							3.6 =				95.5 =		
AF-35	AF3512	1.2 - 10.7	09/25/99				8.8 =					2.1 =						23 =		
AF-36	AF3612	1.4 - 10.9	09/25/99				17.3 =					2.4 =		2.6 =				38 =		
AF-37	AF3712	4.4 – 14.3	09/25/99		0.6 J		26.4 =					4.2 =			0.63 J		0.69 J	346 =		3.4 J
AF-38	AF3812	4.1 – 14.1	09/25/99				3.8 =					2 =			1.6 J		2 =	6.8 =		9.4 =
AF-39	AF3912	4.4 – 14.4	09/25/99				4.3 =					0.92 J								
					Αι	lditiona	ıl Deep	Well In	stallatio	n & Sa	mpling	– Februc	ary 2000	9						
AF-40	AF4012	28.5 - 33.0	02/02/00				15.4 =					21.3 =			3.2 =		0.60 J	53.3 =		8.8 =
AF-41	AF4112	28.5 - 33.0	02/02/00		0.94 J		35.6 =					0.20 J						158 =		
AF-42	AF4212	28.5 - 33.0	02/02/00														0.30 J			
						I	irst Sen	niannu	al Samp	ling Ev	ent – Ji	une 2000								
AF-40	AF4032	28.5 - 33.0	06/23/00		1.6=		63.3 =					1.3 =			0.57 J			353 =		
AF-41		28.5 - 33.0	06/23/00		3.0 =		110 =											636 =		
AF-42	AF4232	28.5 - 33.0	06/23/00														0.81 J			
Ma	ximum Co	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000	
In-St	ream Water	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC	

Table 1. Groundwater Analytical Results (continued)

									D	etected	Volatil	e Organi	ic Com	pounds	(μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
				Supple	mental	Grouna	lwater S	amplin	g to Su	pport G	eophysi	cal Surve	ey – Sep	tember	2000					
AF-01	AF0142	2.5 - 12.5	09/28/00								6.7 =									
AF-02	AF0242	2.0 - 12.0	09/28/00								8.0 =	0.82 J								
AF-03	AF0342	2.0 - 12.0	09/28/00								18 =									
AF-04	AF0442	2.0 - 12.0	09/28/00								9.1 =									
AF-05	AF0542	2.0 - 12.0	09/28/00								11.7 =	4.7 =			4.7 =		0.82 J			20.9 =
AF-07	AF0742	2.5 - 12.5	09/28/00									9,920 =			645 =		39.2 =			300 U
AF-08	AF0842	2.5 - 12.5	09/28/00								6.8 =	0.20 J								
AF-09	AF0942	2.0 - 12.0	09/28/00				3.4 =				7.4 =	7 =			16.7 =		0.36 J			
AF-11	AF1142	1.0 - 11.0	09/28/00																	
AF-12	AF1242	2.5 - 12.5	09/28/00								8.2 =	33.2 =			94.1 =		0.29 J			3.2 =
AF-13	AF1342	2.5 - 12.5	09/28/00				1.2 J				7.2 =				0.17 J					1.2 J
AF-14	AF1442	1.4 - 11.4	09/28/00								8.3 =				0.064 J					
AF-15	AF1542	1.5 - 11.5	09/28/00								8.2 =	0.19 J								
AF-16	AF1642	1.5 - 11.5	09/28/00								6.5 =									
AF-18	AF1842	1.5 - 11.5	09/28/00				5.6 =				11.2 =	5.8 =			0.11 J		0.7 J	1.4=		
AF-19	AF1942	1.5 - 11.5	09/28/00				0.36 J				7.4 =	0.24 J					0.99 J			
AF-20	AF2042	3.0 - 13.0	09/27/00				2.3 =				7.7 =	0.55 J								
Ma	Maximum Contaminant Level			NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Wate	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									D	etected	Volati	le Organ	ic Com	pounds	s (μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
AF-23	AF2342	3.0 – 13.0	09/27/00				8.5 =				6.6 =	1.6=						0.33 J		
AF-24	AF2442	2.0 - 12.0	09/28/00																	
AF-25	AF2542	0.5 - 10.5	09/28/00				34 =					1.6=						197 =		
AF-26	AF2642	2.0 - 12.0	09/28/00				21.8 =					11.2 =					1.9 =	102 J		
AF-27	AF2742	1.0 - 11.0	09/28/00				30.7 =					1.9 =						179 =		
AF-28	AF2842	2.0 - 12.0	09/28/00				42.6 =					8.6 =					1.2 =	56.8 =		
AF-29	AF2942	2.0 - 12.0	09/28/00				2.4 =					351 =			54.1 =		2.8 =	2.6 =	0.77 J	5.1 =
AF-33	AF3342	2.3 - 11.8	09/28/00				8.1 =											34.4 =		
AF-34	AF3442	1.4 - 10.9	09/28/00	2.8 =	3.9 =		13 =										0.47 J	105 J		
AF-35	AF3542	1.2 - 10.7	09/28/00				9.6 =					0.38 J						27.6 =		
AF-36	AF3642	1.4 – 10.9	09/28/00				3.3 =					0.83 J					0.78 J	10.3 =		
AF-37	AF3742	4.4 – 14.3	09/28/00				17.2 =					2.7 =					1.9 =	226 =		
AF-38	AF3842	4.1 – 14.1	09/28/00				0.39 J					0.19 J					1.4 =			
AF-40	AF4042	28.5 - 33.0	09/28/00				14.6 =					1.8 =			0.45 J			42.9 =	0.76 J	
AF-41	AF4142	28.5 - 33.0	09/28/00				1.7 J											1.2 =		
AF-42	AF4242	28.5 - 33.0	09/28/00																	
Ma	aximum Co	ntaminant Lo	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Wate	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									De	tected	Volatile	e Organ	nic Con	ıpound	s (μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
						Vertic	al-Profi	ile Sam	pling –	Novemi	ber/Dec	ember 2	2000							
AF-43	AF4312	4.0 - 9.0	11/30/00								11 =									
AF-43	AF4322	9.0 - 14.0	11/30/00				0.46 J		1.2 J		3.6 J							1.2 =		
AF-43	AF4332	14.0 - 19.0	11/30/00		0.51 J		5.3 =				1.6 J							304 =		
AF-43	AF4342	19.0 - 24.0	11/30/00		2.3 =		20.2 =				1.8 J	0.68 J						2,600 =		
AF-43	AF4352	24.0 - 29.0	11/30/00		5.4 =		103 =				2 J						0.27 J	2,140 =		
AF-43	AF4362	29.0 - 34.0	11/30/00	1.3 =	12.8 =		116=				1.8 J							2,030 =		
AF-43	AF4372	34.0 - 39.0	11/30/00	0.9 J	7.2 =		68.2 =				2.9 J							883 =		
AF-43	AF4382	39.0 - 44.0	11/30/00		0.1 J		9.8 =				2 J							213 J		
AF-43	AF4392	44.0 - 49.0	11/30/00				5.4 =								0.062 J		0.45 J	71.2 =		0.32 J
AF-44	AF4412	4.0 - 9.0	12/01/00				7 =											14.3 =		
AF-44	AF4422	9.0 - 14.0	12/01/00				2.8 =								0.072 J		0.29 J	80.1 =		0.46 J
AF-44	AF4432	14.0 - 19.0	12/01/00															13 =		
AF-44	AF4442	19.0 - 24.0	12/01/00				5.6 =										0.31 J	54.9 =		
AF-44	AF4452	24.0 - 29.0	12/01/00				7 =										0.30 J	33.5 =		
AF-44	AF4462	29.0 - 34.0	12/01/00				1.1 J										0.38 J	0.83 J		
AF-44	AF4472	34.0 - 39.0	12/01/00		3.2 =		104 =				1.8 J	0.16 J						790 =		
AF-44	AF4482	39.0 - 44.0	12/01/00		0.84 J		38.6 =		2.4 J		4.3 J	0.31 J			0.11 J		0.48 J	346 =		
AF-44	AF4492	44.0 - 49.0	12/01/00				9.2 =		1.4 J	2.2 J	4.5 J							60.8 =		
Ma	ximum Co	ntaminant Le	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Wate	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									De	etected	Volatil	e Orgai	nic Con	pound	ls (μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
AF-45	AF4512	4.0 - 9.0	12/01/00				10.3 =					1.8 =	0.41 J				0.39 J	1.9=		
AF-45	AF4522	9.0 - 14.0	12/01/00		0.17 J		7.6 =					4.2 =	0.59 J					47.2 =		
AF-45	AF4532	14.0 - 19.0	12/01/00				1.5 =					0.99 J						18.3 =		
AF-45	AF4542	19.0 - 24.0	12/01/00		0.63 J		67.5 =					0.33 J						428 =		
AF-45	AF4552	24.0 - 29.0	12/01/00		3.8 =		279 =					0.24 J						1,510 =	0.27 J	
AF-45	AF4562	29.0 - 34.0	12/01/00		4.7 =		206 =					0.19 J						1,490 =	0.24 J	
AF-45	AF4572	34.0 - 39.0	12/02/00				15.2 =										0.66 J	181 =		
AF-45	AF4582	39.0 – 44.0	12/02/00				5.9 =											48.4 =		
AF-45	AF4592	44.0 - 49.0	12/02/00															0.59 J		
AF-46	AF4612	6.0 - 10.0	12/02/00				0.73 J					0.22 J								
AF-46	AF4622	11.0 - 15.0	12/02/00				1.4 J					0.65 J	0.84 J					3.9 =		
AF-46	AF4632	16.0 - 20.0	12/02/00									0.30 J						2.6 =		
AF-46	AF4642	21.0 - 25.0	12/02/00				1.4 J					0.63 J						4.6 =		
AF-46	AF4652	26.0 - 30.0	12/02/00				2.3 =					0.16 J						1.2 =		
AF-46	AF4662	31.0 - 35.0	12/02/00				0.46 J													
AF-46	AF4672	36.0 - 40.0	12/02/00																	
AF-46	AF4682	41.0 – 45.0	12/02/00															0.61 J		
AF-46	AF4692	46.0 - 50.0	12/02/00																	
Ma	aximum Co	ntaminant Le	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Wate	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									De	tected \	Volatile	Organ	ic Com	pounds	s (μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
AF-47	AF4722	11.0 - 15.0	12/02/00				0.84 J	0.3 J				1.2 =						3 =		
AF-47	AF4732	16.0 - 20.0	12/02/00			0.51 J						0.21 J						0.27 J		
AF-47	AF4742	21.0 - 25.0	12/02/00																	
AF-47	AF4752	26.0 - 30.0	12/02/00																	
AF-47	AF4762	31.0 - 35.0	12/03/00																	
AF-47	AF4772	36.0 - 40.0	12/03/00																	
AF-47	AF4782	41.0 - 45.0	12/03/00																	
AF-47	AF4792	46.0 - 50.0	12/03/00																	
AF-48	AF4812	5.0 - 10.0	12/04/00				6.7 =				2.4 J	0.88 J			1.6 =		8.9 =	5.9 =		7.3 =
AF-48	AF4822	10.0 - 15.0	12/04/00				9.6 =					0.63 J			0.14 J			155 =		0.42 J
AF-48	AF4832	15.0 - 20.0	12/04/00																	0.40 J
AF-48	AF4842	20.0 - 25.0	12/04/00																	
AF-48	AF4852	25.0 - 30.0	12/04/00																	
AF-48	AF4862	30.0 - 35.0	12/04/00																	
AF-48	AF4872	35.0 - 40.0	12/04/00																	
AF-48	AF4882	40.0 - 45.0	12/04/00																	
AF-48	AF4892	45.0 - 50.0	12/04/00																	
Ma	ximum Co	ntaminant Le	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Wate	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									De	tected V	Volatile	Organ	ic Com	pounds	(μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
AF-49	AF4912	6.0 - 10.0	12/03/00				1.4 J		2.4 J				0.63 J					0.48 J		
AF-49	AF4922	11.0 - 15.0	12/03/00				1.9 J					0.21 J	0.98 J					$0.78~\mathrm{J}$		
AF-49	AF4932	16.0 - 20.0	12/03/00										0.66 J							
AF-49	AF4942	21.0 - 25.0	12/03/00																	
AF-49	AF4952	26.0 - 30.0	12/03/00																	
AF-49	AF4962	31.0 - 35.0	12/03/00																	
AF-49	AF4972	36.0 - 40.0	12/03/00											0.38 J						
AF-49	AF4982	41.0 – 45.0	12/03/00								2 J					0.58 J	3.9 =			
AF-49	AF4992	46.0 - 50.0	12/03/00								2.6 J					0.69 J	3.7 =			
AF-50	AF5012	4.0 - 9.0	12/02/00				4.0 =				1.8 J	9.5 =						6.5 =		
AF-50	AF5022	9.0 - 14.0	12/02/00				4.4 =				2 J	0.86 J						13.4 =		
AF-50	AF5032	14.0 – 19.0	12/02/00				0.21 J													
AF-50	AF5042	19.0 - 24.0	12/03/00						1.6 J											
AF-50	AF5052	24.0 - 29.0	12/03/00																	
AF-50	AF5062	29.0 – 34.0	12/03/00																	
AF-50	AF5072	34.0 – 39.0	12/03/00																	
AF-50	AF5082	39.0 – 44.0	12/03/00																	
AF-50	AF5092	44.0 – 49.0	12/03/00																	
Ма	aximum Co	ntaminant Le	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Wate	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									De	etected	Volatil	e Orgai	nic Con	npound	s (µg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
AF-51	AF5112	5.0 - 10.0	12/03/00				3.4 =					1.3 =					0.27 J	25.6 =		
AF-51	AF5122	10.0 - 15.0	12/03/00		0.64 J		5.1 =					0.86 J						37.3 =		
AF-51	AF5132	15.0 - 20.0	12/03/00	10.3 =	22.5 =		65.4 =											604 =	0.60 J	
AF-51	AF5142	20.0 - 25.0	12/03/00	2.1 =	1.9=		4.0 =											10.9 =		
AF-51	AF5152	25.0 - 30.0	12/04/00	0.76 J	2.3 =		11.9 =											90.3 =		
AF-51	AF5162	30.0 - 35.0	12/04/00				0.51 J											0.38 J		
AF-51	AF5172	35.0 - 40.0	12/04/00												0.16 J					0.45 J
AF-51	AF5182	40.0 - 45.0	12/04/00				0.97 J											2.4 =		
AF-51	AF5192	45.0 - 50.0	12/04/00																	
AF-52	AF5212	4.0 - 9.0	12/02/00						1.2 J		8.5 =	0.18 J								
AF-52	AF5222	9.0 - 14.0	12/02/00								1.8 J							0.33 J		
AF-52	AF5232	14.0 – 19.0	12/02/00				34.5 J											1,780 =		
AF-52	AF5242	19.0 - 24.0	12/02/00		16.3 J		378 =											7,730 =		
AF-52	AF5252	24.0 - 29.0	12/02/00		15 J		174 =											2,120 =		
AF-52	AF5262	29.0 - 34.0	12/02/00		0.61 J		6 =											34.1 =		
AF-52	AF5272	34.0 – 39.0	12/02/00				65.2 =											631 =		
AF-52	AF5282	39.0 – 44.0	12/02/00				42.7 =											516 =		
AF-52	AF5292	44.0 – 49.0	12/02/00				0.31 J											2.8 =		
Ma	aximum Co	ntaminant Le	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Wate	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									De	etected	Volatile	e Orgai	nic Con	npound	s (μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloroform	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
						Seco	nd Semi	iannual	Sampl	ing Eve	ent – Jar	nuary 2	001				÷.			
AF-40	AF4052	28.5 - 33.0	01/07/01		0.41 J		26 =					0.39 J			0.13 J			108 J	0.67 J	0.34 J
AF-41	AF4152	28.5 - 33.0	01/07/01		0.82 J		32.7 =											176 =		
AF-42	AF4252	28.5 - 33.0	01/07/01																	
						Well .	Installa	tion & S	Samplin	g – Fe	bruary/A	March 2	2001							
AF-53	AF5312	20.0 - 30.0	03/10/01		4.6 =		88.8 =				97.3 =	0.22 J					0.27 J	2,410 J		
AF-54	AF5412	32.4 - 42.4	03/10/01				53.2 =				613 J			2.5 =				352 =		
AF-55	AF5512	34.0 - 34.0	03/10/01				154 =				3,100 J	0.35 J		0.21J				1,020 =		
AF-56	AF5612	19.9 - 29.9	03/10/01				7.9 J											303 =		
AF-57	AF5712	57.8 - 62.8	03/09/01								220 =			4.7 =				0.72 J		
AF-58	AF5812	2.7 - 12.7	03/09/01				8.0 =		2.8 J		1,360 J	0.16 J		1.1 =			0.62 J	13 =		0.25 J
AF-59	AF5912	2.3 - 12.3	03/10/01						1.0 J		2,250 J	0.67 J		0.66 J						
AF-60	AF6012	20.0 - 30.0	03/10/01				3.4 =					0.26 J						26.1 =		
AF-61	AF6112	20.0 - 30.0	03/10/01				1.3 J		2.3 J		356 =			0.39 J				267 =		
AF-62	AF6212	3.0 - 13.0	03/10/01						1.9 J		8,630 J	0.15 J		1.0 =			0.23 J	0.39 J		
Ma	ximum Co	ntaminant Le	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Water	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									De	etected	Volatile	e Organ	nic Con	pound	s (μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
							Vertic	cal- Pro	file Sar	npling -	- July 2	002								
AF-63	AF6312	1.0 - 5.0	07/16/02								6.4 =	0.92 J					2.4 =			1.0 J
AF-63	AF6322	6.0 - 10.0	07/16/02									5.6 =			3.5 =					
AF-63	AF6332	11.0 - 15.0	07/16/02																	
AF-63	AF6342	16.0 - 20.0	07/16/02				0.71 J											12.9 =		
AF-63	AF6352	21.0 - 25.0	07/16/02				1.2 J					1.8 =			0.45 J			20.9 =		
AF-63	AF6362	26.0 - 30.0	07/16/02				4.5 =					3.0 =						71.7 =		
AF-63	AF6372	31.0 - 35.0	07/16/02									1.4 =			0.64 J			0.88J		
AF-63	AF6382	36.0 - 40.0	07/16/02				116 =											1250=		
AF-63	AF6392	41.0 - 45.0	07/16/02				38.7 =										3.8 J	344 =		
AF-64	AF6422	6.0 - 10.0	07/16/02																	
AF-64	AF6432	11.0 - 15.0	07/16/02																	
AF-64	AF6442	16.0 - 20.0	07/16/02															6.7 =		
AF-64	AF6452	21.0 - 25.0	07/16/02															13.8 =		
AF-64	AF6462	26.0 - 30.0	07/16/02				2.0 =											31.2 =		
AF-64	AF6472	31.0 - 35.0	07/16/02				1.4 J											2.8 =		
AF-64	AF6482	36.0 - 40.0	07/16/02														7.0 =	1.1 =		
AF-64	AF6492	41.0 – 45.0	07/16/02				4.4 =											79.1 =		
Ma	ximum Co	ntaminant Le	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Water	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,00	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									D	etected	Volatil	e Orga	nic Con	npound	s (µg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
AF-65	AF6512	1.0 - 5.0	07/17/02														1.9 =			
AF-65	AF6522	6.0 - 10.0	07/17/02																	
AF-65	AF6532	11.0 - 15.0	07/17/02														0.74 J			
AF-65	AF6542	16.0 - 20.0	07/17/02														0.74 J	2.4 =		
AF-65	AF6552	21.0 - 25.0	07/17/02				0.38 J										0.47 J	3.0 =		
AF-65	AF6562	26.0 - 30.0	07/17/02														0.43 J			
AF-65	AF6572	31.0 - 35.0	07/17/02																	
AF-65	AF6582	36.0 - 40.0	07/17/02																	
AF-65	AF6592	41.0 - 45.0	07/17/02						5.3 J			0.38 J					1.2 J			0.27 J
AF-66	AF6612	1.0 - 5.0	07/16/02											4.8 J						
AF-66	AF6622	6.0 - 10.0	07/16/02				15.9 =				16.7 =	0.40 J					4.1 =			
AF-66	AF6632	11.0 - 15.0	07/16/02				90.5 =										3.1 =	4.2 =	0.74 J	
AF-66	AF6642	16.0 - 20.0	07/17/02				15.0 =										3.2 =	76.0 =		
AF-66	AF6652	21.0 - 25.0	07/17/02																	
AF-66	AF6662	26.0 - 30.0	07/17/02											1.9 J						
AF-66	AF6672	31.0 - 35.0	07/17/02														1.8 =			
AF-66	AF6682	36.0 - 40.0	07/17/02				0.45 J										1.9 =	6.0 =		
AF-66	AF6692	41.0 – 45.0	07/17/02				0.37 J										1.1 =	4.2 =		
Ma	ximum Co	ntaminant Le	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Wate	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Table 1. Groundwater Analytical Results (continued)

									De	etected	Volatile	e Orgai	nic Con	ıpound	s (μg/L)					
Boring ID	Sample ID	Screened Interval (ft BGS)	Sample Date	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane	2-Butanone	2-Hexanone	Acetone	Benzene	Carbon Disulfide	Chloromethane	Ethylbenzene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl Chloride	Xylenes, Total
AF-67	AF6722	6.0 - 10.0	07/17/02		1.1 J	2.2 =	14.2 =											107 =		
AF-67	AF6732	11.0 - 15.0	07/17/02	0.97 J	2.3 =		25.6 =											746 =		
AF-67	AF6742	16.0 - 20.0	07/17/02																	
AF-67	AF6752	21.0 - 25.0	07/17/02																	
AF-67	AF6762	26.0 - 30.0	07/17/02																	
AF-67	AF6772	31.0 - 35.0	07/17/02																	
AF-67	AF6782	36.0 - 40.0	07/17/02																	
AF-67	AF6792	41.0 – 45.0	07/17/02																	
						Well I	nstallati	on & S	ampling	g – Octo	ber/De	cember	2002							
AF-68	AF6812	36.0 - 40.0			1.6=		84.8 =											380 J		
AF-69	AF6912	41.0 – 45.0					6.9 =											138 J		
AF-70	AF7012	16.0 - 20.0																2 J		
AF-71	AF7112	16.0 - 20.0			0.54 J		36.5 J											41.4 J		
AF-72	AF7212	11.0 - 15.0		1.8 =	4.9 =	1.2 =	57.8 =											807 J		
Ma	aximum Co	ntaminant L	evel	NRC	7	5	NRC	5	NRC	NRC	NRC	5	NRC	NRC	700	5	1,000	5	2	10,000
In-St	ream Wate	r Quality Sta	ndard	NRC	3.2	98.6	NRC	NRC	NRC	NRC	NRC	71.28	NRC	NRC	28,718	8.85	200,000	80.7	525	NRC

Bold values exceed maximum contaminant level.

Shaded values exceed Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface. CAP Corrective Action Plan. NRC No regulatory criterion.

Laboratory Qualifiers

- U Indicates the compound was not detected at the concentration reported.
- J Indicates the value for the compound is an estimated value.
- Indicates the compound was detected at the concentration reported.

Table 2. USACE Vertical-Profile Groundwater Analytical Results

						Detecte	ed Orgai	nic Com	nounds	s (ng/L)		
										(rs/2)		
Boring ID	Sample ID	Sample Date	Sample Depth (ft BGS)	cis-1,2-Dichloroethene	n-Butylbenzene	sec-Butylbenzene	n-Propylbenzene	Benzene	Dichlorodifluoromethane	Isopropylbenzene	Naphthalene	Trichloroethene
B159-1	B159-1-10	12/04/02	9 – 11									
B159-1	B159-1-15	12/04/02	14 – 16									
B159-1	B159-1-20	12/04/02	19 – 21									2.44
B159-1	B159-1-25	12/04/02	24 – 26	2.35 J				0.98 J				3.63 J
B159-1	B159-1-30	12/04/02	29 - 31	2.33 3				0.763				3.03 3
B159-1	B159-1-35	12/04/02	$\frac{29-31}{34-36}$									
B159-1	B159-1-40	12/04/02	39 – 41	14.7								116
												116
B159-1	B159-1-45	12/04/02	44 – 46	3.4 J								12.7
B159-2	B159-2-10	12/06/02	9 – 11									
B159-2	B159-2-15	12/06/02	14 – 16									
B159-2	B159-2-20	12/06/02	19 – 21									
B159-2	B159-2-25	12/06/02	24 - 26									
B159-2	B159-2-30	12/06/02	29 – 31									
B159-2	B159-2-35	12/06/02	34 - 36									
B159-2	B159-2-35	12/06/02	39 - 41									
B159-2	B159-2-40	12/06/02	44 - 46									
B159-3	B159-3-10	12/04/02	9 – 11						10.5			
B159-3	B159-3-15	12/04/02	14 - 16						5.32			
B159-3	B159-3-20	12/04/02	19 - 21									
B159-3	B159-3-25	12/04/02	24 - 26									
B159-3	B159-3-30	12/04/02	29 – 31									
B159-3	B159-3-35	12/04/02	34 - 36									
B159-3	B159-3-40	12/04/02	39 – 41									
B159-3	B159-3-45	12/04/02	44 – 46									
B159-4	B159-4-10	12/04/02	9 – 11									
B159-4	B159-4-15	12/04/02	14 – 16									
B159-4	B159-4-20	12/04/02	19 – 21									
B159-4	B159-4-25	12/04/02	24 – 26									
B159-4	B159-4-30	12/04/02	29 – 31									
B159-4	B159-4-35	12/04/02	34 - 36									
B159-4	B159-4-40	12/04/02	39 – 41									
B159-4												
	B159-4-45	12/04/02	44 – 46									
B159-5	B159-5-10	12/03/02	9 – 11		0.52.1	0.00 7					1 27 1	
B159-5	B159-5-15	12/03/02	14 – 16		0.53 J	0.88 J	0.62.1			0.01.7	1.37 J	
B159-5	B159-5-20	12/03/02	19 – 21				0.62 J			0.81 J	6.17	
B159-5	B159-5-25	12/03/02	24 – 26								6.22 J	
B159-5	B159-5-30	12/03/02	29 – 31									
B159-5	B159-5-35	12/03/02	34 – 36									
B159-5	B159-5-40	12/03/02	39 – 41									
B159-5	B159-5-45	12/03/02	44 – 46									
	Aaximum Con			70	NRC	NRC	NRC	5	NRC	NRC	NRC	5
In-S	Stream Water	Quality Stan	dard	NRC	NRC	NRC	NRC	71.28	NRC	NRC	NRC	80.7

Bold values exceed maximum contaminant levels Shaded values exceed in-stream water quality standards BGS Below ground surface. J Indicates the value for the compound is an estimated value.

NRC No regulatory criterion.
USACE U. S. Army Corps of Engineers.

Table 3. CAP-Part B Well Construction Details

Boring/		Boring	Screened		Coordinate	es (NAD 88)	Elevation (NGVD 88)
Well	Date	Depth	Interval	Type of			Ground	Top of
Number	Installed	(ft BGS)	(ft BGS)	Completion	Northing	Easting	Surface	Casing
				P–Part B Investigation –	- 1999			
AF-01	05/04/99	12.7	2.5 - 12.5	3/4" PVC shallow well	734225.90	979645.78	23.28	23.02
AF-02 ^a	05/05/99	12.2	2.0 - 12.0	3/4" PVC shallow well	734103.05	979556.81	22.10	21.94
AF-03 ^a	05/05/99	12.2	2.0 - 12.0	3/4" PVC shallow well	734073.65	979520.84	22.30	22.27
AF-04	05/05/99	12.2	2.0 - 12.0	3/4" PVC shallow well	734170.32	979621.51	22.32	22.24
AF-05	05/05/99	12.2	2.0 - 12.0	³ / ₄ " PVC shallow well	734139.42	979582.77	22.46	22.21
AF-06	05/05/99	12.2	2.0 - 12.0	temporary piezometer	734083.64	979514.88	22.70	N/A
AF-07	05/04/99	12.7	2.5 - 12.5	3/4" PVC shallow well	734145.20	979553.53	23.13	22.90
AF-08	05/04/99	12.7	2.5 - 12.5	3/4" PVC shallow well	734249.25	979597.57	23.30	23.10
AF-09	05/04/99	12.2	2.0 - 12.0	³ / ₄ " PVC shallow well	734211.34	979549.77	23.11	22.93
AF-10	05/04/99	12.7	2.5 - 12.5	temporary piezometer	734145.04	979465.65	23.23	N/A
AF-11 ^a	05/05/99	11.2	1.0 - 11.0	³ / ₄ " PVC shallow well	734167.54	979635.77	22.03	21.89
AF-12	05/04/99	12.7	2.5 - 12.5	³ / ₄ " PVC shallow well	734165.46	979578.22	23.05	22.86
AF-13	05/07/99	12.7	2.5 - 12.5	³ / ₄ " PVC shallow well	734243.82	979567.47	23.01	22.79
AF-14	05/07/99	11.5	1.4 - 11.4	³ / ₄ " PVC shallow well	734284.56	979617.09	23.33	23.04
AF-15	05/07/99	11.6	1.5 - 11.5	³ / ₄ " PVC shallow well	734253.79	979641.17	23.30	23.28
AF-16	05/07/99	12.0	1.6 – 11.6	³ / ₄ " PVC shallow well	734223.09	979682.24	22.06	22.17
AF-17	05/08/99	12.2	2.0 - 12.0	³ / ₄ " PVC shallow well	734023.58	979539.92	18.64	18.93
AF-18 a	05/08/99	11.5	1.3 - 11.3	³ / ₄ " PVC shallow well	734051.22	979517.96	19.06	20.13
AF-19 ^a	05/08/99	11.5	1.4 - 11.4	³ / ₄ " PVC shallow well	734038.69	979490.11	19.52	19.68
AF-20	05/08/99	13.2	3.0 - 13.0	³ / ₄ " PVC shallow well	734086.22	979494.33	23.03	22.84
AF-21	05/07/99	55.0	N/A	vertical profile	734143.75	979553.06	23.05	N/A
AF-22	05/08/99	55.0	N/A	vertical profile	734085.32	979516.34	22.61	N/A
AF-23	05/08/99	13.2	3.0 - 13.0	3/4" PVC shallow well	734097.56	979456.29	23.43	23.25
AF-24	05/08/99	12.2	2.0 - 12.0	3/4" PVC shallow well	734199.08	979473.21	23.10	22.85
AF-25 ^a	05/11/99	10.5	0.1 - 10.1	³ / ₄ " PVC shallow well	734020.29	979470.48	14.75	15.03
AF-26 a	05/11/99	12.2	2.0 - 12.0	³ / ₄ " PVC shallow well	733986.65	979544.00	16.90	17.65
AF-27 a	05/11/99	11.5	1.0 - 11.0	³ / ₄ " PVC shallow well	734005.71	979516.52	16.40	16.50
AF-28 a	05/11/99	12.2	2.0 - 12.0	³ / ₄ " PVC shallow well	734078.69	979600.87	16.80	17.11
AF-29	05/11/99	12.2	2.0 - 12.0	³ / ₄ " PVC shallow well	734007.36	979587.21	18.90	19.06
AF-30	09/26/99	50.0	N/A	vertical profile	734139.86	979550.68	23.10	N/A
AF-31	09/25/99	50.0	N/A	vertical profile	733998.85	979522.67	16.70	N/A
AF-32	09/25/99	50.0	N/A	vertical profile	733972.47	979570.12	17.00	N/A
AF-33 ^a	09/25/99	12.0	2.3 - 11.8	3/4" PVC shallow well	734123.31	979659.91	17.60	18.07
AF-34	09/25/99	11.0	1.4 - 10.9	3/4" PVC shallow well	734007.30	979725.81	17.60	17.85
AF-35	09/25/99	11.0	1.2 - 10.7	3/4" PVC shallow well	734025.16	979653.95	17.30	17.63
AF-36 a	09/25/99	11.0	1.4 - 10.9	3/4" PVC shallow well	733954.70	979592.53	17.40	17.52
AF-37 ^a	09/25/99	15.0	4.4 – 14.3	3/4" PVC shallow well	733952.49	979506.73	19.80	20.06
AF-38 a	09/25/99	14.5	4.1 – 14.0	3/4" PVC shallow well	733990.35	979405.78	20.00	20.14
AF-39 ^a	09/25/99	15.0	4.4 – 14.3	3/4" PVC shallow well	734050.46	979442.65	21.70	22.12

^a Well was damaged and repaired following the installation and initial survey. The top of casing was resurveyed in February 2001.

BGS Below ground surface. CAP Corrective Action Plan. Not applicable.

N/A NAD North American Datum.

National Geodetic Vertical Datum. NGVD

PVC Polyvinyl chloride.

Table 3. CAP-Part B Well Construction Details (continued)

Boring/		Boring	Screened		Coordinate	es (NAD 88)	Elevation (NGVD 88)
Well	Date	Depth	Interval	Type of			Ground	Top of
Number	Installed	(ft BGS)	(ft BGS)	Completion	Northing	Easting	Surface	Casing
		Supple		Part B Investigation Act				
AF-40	01/15/00	33.5	28.5 - 33.0	2" PVC deep well	734141.9	979553.1	23.05	22.78
AF-41	01/15/00	33.5	28.5 - 33.0	2" PVC deep well	734087.0	979512.4	22.70	22.33
AF-42	01/15/00	33.5	28.5 - 33.0	2" PVC deep well	734000.8	979521.2	16.40	19.03
AF-43	11/30/00	49.0	N/A	vertical profile	734303.9	979627.0	23.31	N/A
AF-44	12/01/00	49.0	N/A	vertical profile	734233.0	979549.9	22.77	N/A
AF-45	12/01/00	49.0	N/A	vertical profile	734156.9	979457.5	23.14	N/A
AF-46	12/02/00	50.0	N/A	vertical profile	734090.1	979390.2	23.16	N/A
AF-47	12/02/00	50.0	N/A	vertical profile	733996.5	979367.3	19.90	N/A
AF-48	12/04/00	50.0	N/A	vertical profile	733926.8	979430.7	19.70	N/A
AF-49	12/02/00	50.0	N/A	vertical profile	733922.2	979641.8	22.69	N/A
AF-50	12/02/00	49.0	N/A	vertical profile	734069.3	979596.9	17.30	N/A
AF-51	12/03/00	50.0	N/A	vertical profile	734115.2	979650.9	18.10	N/A
AF-52	12/02/00	49.0	N/A	vertical profile	734234.0	979686.7	22.60	N/A
AF-53	02/04/01	31.0	20.0 - 30.0	2" PVC deep well	734303.9	979627.0	23.31	22.93
AF-54	02/04/01	43.5	32.4 - 42.4	2" PVC deep well	734233.0	979549.9	22.77	22.43
AF-55	02/04/01	34.5	24.0 - 34.0	2" PVC deep well	734156.9	979457.5	23.14	22.76
AF-56	02/04/01	31.0	19.9 - 29.9	2" PVC deep well	734329.8	979653.2	23.27	22.99
AF-57	02/03/01	65.0	57.8 – 62.8	2" PVC deep well	733996.5	979367.3	19.90	22.21
AF-58	02/05/01	13.0	2.7 - 12.7	2" PVC shallow well	733926.8	979430.7	19.70	22.32
AF-59	02/04/01	14.9	2.3 - 12.3	2" PVC shallow well	734201.6	979649.7	22.69	22.33
AF-60	02/05/01	31.0	20.0 - 30.0	2" PVC deep well	734225.2	979434.6	24.08	23.77
AF-61	02/05/01	31.0	20.0 - 30.0	2" PVC deep well	734331.1	979603.5	23.79	23.47
AF-62	02/05/01	14.0	3.0 - 13.0	2" PVC shallow well	734234.0	979686.7	22.60	22.11
		Su	ipplemental C	AP-Part B Investigation	Activities – 2	2002		l .
AF-63	07/16/02	45.0	N/A	vertical profile	734234.3	979386.5	24.4	N/A
AF-64	07/16/02	45.0	N/A	vertical profile	734337.7	979548.7	24.7	N/A
AF-65	07/17/02	45.0	N/A	vertical profile	734417.0	979673.9	24.4	N/A
AF-66	07/17/02	45.0	N/A	vertical profile	734418.8	979801.5	23.2	N/A
AF-67	07/17/02	45.0	N/A	vertical profile	734017.7	979773.2	17.8	N/A
AF-68	10/18/02	45.0	34.5 - 39.5	2" PVC deep well	734234.3	979386.5	24.4	24.26
AF-69	10/17/02	50.0	40.2 - 45.2	2" PVC deep well	734337.7	979548.7	24.7	23.83
AF-70	10/16/02	21.0	15.0 - 20.0	2" PVC shallow well	734417.0	979673.9	24.4	24.00
AF-71	10/17/02	21.0	15.3 - 20.3	2" PVC shallow well	734418.8	979801.5	23.2	23.06
AF-72	10/16/02	13.0	2.5 - 12.5	2" PVC shallow well	734017.7	979773.2	17.8	17.72
NOTES:	ı		L		L			<u>. </u>

BGS Below ground surface. CAP Corrective Action Plan.

N/A Not applicable.

NAD North American Datum.

NGVD National Geodetic Vertical Datum.

PVC Polyvinyl chloride.

Table 4. CAP-Part A/B Groundwater Elevations

Well Number	Date Measured	Ground Surface Elev. (ft MSL)	Top of Casing Elev. (ft MSL)	Depth of Screened Interval (ft BGS)	Depth of Free Product (ft BTOC)	Water Depth (ft BTOC)	Product Thickness (ft)	Specific Gravity Adjustment	Corrected Groundwater Elev. (ft MSL)
			CAI	PPart A In	vestigation – l	November 19	98		
MW-3	11/19/98	NR	21.44	3.0 - 7.0	N/A	4.72	0	N/A	16.72
MW-4	11/19/98	NR	22.80	2.5 - 6.5	N/A	2.65	0	N/A	20.15
MW-5	11/19/98	NR	21.51	3.5 - 7.5	N/A	5.00	0	N/A	16.51
			(CAP–Part B	Investigation	– June 1999			
AF-01	06/02/99	23.28	23.02	2.5 - 12.5	N/A	4.88	0	N/A	18.14
AF-02	06/02/99	22.10	21.97	2.0 - 12.0	N/A	4.91	0	N/A	17.06
AF-03	06/02/99	22.30	22.30	2.0 - 12.0	N/A	5.11	0	N/A	17.19
AF-04	06/02/99	22.32	22.24	2.0 - 12.0	N/A	4.66	0	N/A	17.58
AF-05	06/02/99	22.46	22.21	2.0 - 12.0	N/A	4.97	0	N/A	17.24
AF-07	06/02/99	23.13	22.9	2.5 - 12.5	N/A	5.01	0	N/A	17.89
AF-08	06/02/99	23.30	23.1	2.5 - 12.5	N/A	3.94	0	N/A	19.16
AF-09	06/02/99	23.11	22.93	2.0 - 12.0	N/A	4.01	0	N/A	18.92
AF-11	06/02/99	22.03	21.93	1.0 - 11.0	N/A	4.72	0	N/A	17.21
AF-12	06/02/99	23.05	22.86	2.5 - 12.5	N/A	5.29	0	N/A	17.57
AF-13	06/02/99	23.01	22.79	2.5 - 12.5	N/A	3.34	0	N/A	19.45
AF-14	06/02/99	23.33	23.04	1.4 – 11.4	N/A	3.12	0	N/A	19.92
AF-15	06/02/99	23.30	23.28	1.5 - 11.5	N/A	4.46	0	N/A	18.82
AF-16	06/02/99	22.06	22.17	1.6 – 11.6	N/A	4.22	0	N/A	17.95
AF-17	06/02/99	18.64	18.93	2.0 - 12.0	N/A	4.46	0	N/A	14.47
AF-18	06/02/99	19.06	19.33	1.3 - 11.3	N/A	3.40	0	N/A	15.93
AF-19	06/02/99	19.52	19.70	1.4 – 11.4	N/A	3.85	0	N/A	15.85
AF-20	06/02/99	23.03	22.84	3.0 - 13.0	N/A	4.91	0	N/A	17.93
AF-23	06/02/99	23.43	23.25	3.0 - 13.0	N/A	4.91	0	N/A	18.34
AF-24	06/02/99	23.10	22.85	2.0 - 12.0	N/A	2.66	0	N/A	20.19
AF-25	06/02/99	14.75	15.01	0.1 - 10.1	N/A	0.87	0	N/A	14.14
AF-26	06/02/99	16.90	17.04	2.0 - 12.0	N/A	2.76	0	N/A	14.28
AF-27	06/02/99	16.40	16.55	1.0 - 11.0	N/A	1.98	0	N/A	14.57
AF-28	06/02/99	16.80	17.13	2.0 - 12.0	N/A	1.74	0	N/A	15.39
AF-29	06/02/99	18.90	19.06	2.0 - 12.0	N/A	4.67	0	N/A	14.39
			CA	P–Part B In	vestigation – l	December 19	99		
AF-01	12/03/99	23.28	23.02	2.5 - 12.5	N/A	4.97	0	N/A	18.05
AF-02	12/03/99	22.10	21.97	2.0 - 12.0	N/A	4.86	0	N/A	17.11
AF-03	12/03/99	22.30	22.30	2.0 - 12.0	N/A	5.09	0	N/A	17.21
AF-04	12/03/99	22.32	22.24	2.0 - 12.0	N/A	4.67	0	N/A	17.57
AF-05	12/03/99	22.46	22.21	2.0 - 12.0	N/A	4.94	0	N/A	17.27
AF-07	12/03/99	23.13	22.9	2.5 – 12.5	5.00	5.02	0.02	N/A	17.88
AF-08	12/03/99	23.30	23.1	2.5 - 12.5	N/A	4.10	0	N/A	19.00
AF-09	12/03/99	23.11	22.93	2.0 - 12.0	N/A	4.11	0	N/A	18.82

BGS Below ground surface.
BTOC Below top of casing.
MSL Mean sea level.
N/A Not applicable.
NR Not reported.

Table 4. CAP-Part A/B Groundwater Elevations (continued)

Well Number	Date Measured	Ground Surface Elev.	Top of Casing Elev.	Depth of Screened Interval (ft BGS)	Depth of Free Product (ft BTOC)	Water Depth (ft BTOC)	Product Thickness (ft)	Specific Gravity Adjustment	Corrected Groundwater Elev. (ft MSL)
AF-11	12/03/99	22.03	21.93	1.0 – 11.0	N/A	4.71	0	N/A	17.22
AF-12	12/03/99	23.05	22.86	2.5 - 12.5	N/A	5.19	0	N/A	17.67
AF-13	12/03/99	23.01	22.79	2.5 - 12.5	N/A	3.54	0	N/A	19.25
AF-14	12/03/99	23.33	23.04	1.4 – 11.4	N/A	3.34	0	N/A	19.70
AF-15	12/03/99	23.30	23.28	1.5 – 11.5	N/A	4.49	0	N/A	18.79
AF-16	12/03/99	22.06	22.17	1.6 – 11.6	N/A	3.98	0	N/A	18.19
AF-17	12/03/99	18.64	18.93	2.0 - 12.0	N/A	3.79	0	N/A	15.14
AF-18	12/03/99	19.06	19.33	1.3 - 11.3	N/A	3.73	0	N/A	16.10
AF-19	12/03/99	19.52	19.70	1.4 – 11.4	N/A	3.56	0	N/A	16.14
AF-20	12/03/99	23.03	22.84	3.0 - 13.0	N/A	5.00	0	N/A	17.84
AF-23	12/03/99	23.43	23.25	3.0 - 13.0	N/A	5.03	0	N/A	18.22
AF-24	12/03/99	23.10	22.85	2.0 - 12.0	N/A	2.81	0	N/A	20.04
AF-25	12/03/99	14.75	15.01	0.1 - 10.1	N/A	0.60	0	N/A	14.41
AF-26	12/03/99	16.90	17.04	2.0 - 12.0	N/A	2.02	0	N/A	15.02
AF-27	12/03/99	16.40	16.55	1.0 - 11.0	N/A	1.41	0	N/A	15.14
AF-28	12/03/99	16.80	17.13	2.0 – 12.0	N/A	1.14	0	N/A	15.14
AF-29	12/03/99	18.90	19.06	2.0 - 12.0	N/A	3.79	0	N/A	15.27
AF-33	12/03/99	17.6	18.02	2.3 – 11.8	N/A	2.06	0	N/A	15.96
AF-34	12/03/99	17.6	17.85	1.4 – 10.9	N/A	4.62	0	N/A	13.23
AF-35	12/03/99	17.3	17.63	1.2 - 10.7	N/A	2.55	0	N/A	15.08
AF-36	12/03/99	17.4	17.52	1.4 – 10.9	N/A	2.71	0	N/A	14.81
AF-37	12/03/99	19.8	20.07	4.4 – 14.3	N/A	5.46	0	N/A	14.61
AF-38	12/03/99	20.0	20.24	4.1 – 14.0	N/A	5.84	0	N/A	14.40
AF-39	12/03/99	21.7	22.14	4.4 – 14.3	N/A	4.93	0	N/A	17.21
711 37	12/03/77	21.7			Monitoring E			1 1/11	17.21
AF-01	06/26/00	23.28	23.02	2.5 – 12.5	N/A	5.07	0	N/A	17.95
AF-02	06/26/00	22.10	21.97	2.0 – 12.0	N/A	5.05	0	N/A	16.92
AF-03	06/26/00	22.30	22.30	2.0 – 12.0	N/A	5.03	0	N/A	17.27
AF-04	06/26/00	22.32	22.24	2.0 - 12.0	N/A	4.61	0	N/A	17.63
AF-05	06/26/00	22.46	22.21	2.0 - 12.0	N/A	4.96	0	N/A	17.25
AF-07	06/26/00	23.13	22.90	2.5 – 12.5	N/A	5.35	0	N/A	17.55
AF-08	06/26/00	23.30	23.10	2.5 – 12.5	N/A	4.25	0	N/A	18.85
AF-09	06/26/00	23.11	22.93	2.0 – 12.0	N/A	5.37	0	N/A	17.56
AF-11	06/26/00	22.03	21.93	1.0 - 11.0	N/A	4.55	0	N/A	17.38
AF-12	06/26/00	23.05	22.86	2.5 – 12.5	N/A	5.53	0	N/A	17.33
AF-13	06/26/00	23.01	22.79	2.5 – 12.5	N/A	3.62	0	N/A	19.17
AF-14	06/26/00	23.33	23.04	1.4 – 11.4	N/A	3.35	0	N/A	19.69
AF-15	06/26/00	23.30	23.28	1.5 – 11.5	N/A	4.66	0	N/A	18.62
AF-16	06/26/00	22.06	22.17	1.6 – 11.6	N/A	3.31	0	N/A	18.86
NOTES:				11.0	**	1	<u> </u>		

BGS Below ground surface.
BTOC Below top of casing.
MSL Mean sea level.
N/A Not applicable.

Table 4. CAP-Part A/B Groundwater Elevations (continued)

Well Number	Date Measured	Ground Surface Elev. (ft MSL)	Top of Casing Elev. (ft MSL)	Depth of Screened Interval (ft BGS)	Depth of Free Product (ft BTOC)	Water Depth (ft BTOC)	Product Thickness (ft)	Specific Gravity Adjustment	Corrected Groundwater Elev. (ft MSL)
AF-17	06/26/00	18.64	18.93	2.0 - 12.0	N/A	destroyed	destroyed	N/A	destroyed
AF-18	06/26/00	19.06	19.33	1.3 – 11.3	N/A	4.12	0	N/A	15.21
AF-19	06/26/00	19.52	19.70	1.4 – 11.4	N/A	<1.00		N/A	_
AF-20	06/26/00	23.03	22.84	3.0 - 13.0	N/A	5.22	0	N/A	17.62
AF-23	06/26/00	23.43	23.25	3.0 - 13.0	N/A	3.12	0	N/A	20.13
AF-24	06/26/00	23.10	22.85	2.0 - 12.0	N/A	NM	NM	N/A	NM
AF-25	06/26/00	14.75	15.01	0.1 - 10.1	N/A	NM	NM	N/A	NM
AF-26	06/26/00	16.90	17.04	2.0 - 12.0	N/A	3.01	0	N/A	14.03
AF-27	06/26/00	16.40	16.55	1.0 - 11.0	N/A	1.29	0	N/A	15.26
AF-28	06/26/00	16.80	17.13	2.0 - 12.0	N/A	1.93	0	N/A	15.20
AF-29	06/26/00	18.90	19.06	2.0 - 12.0	N/A	5.15	0	N/A	13.91
AF-33	06/26/00	17.6	18.02	2.3 - 11.8	N/A	2.93	0	N/A	15.09
AF-34	06/26/00	17.6	17.85	1.4 - 10.9	N/A	6.31	0	N/A	11.54
AF-35	06/26/00	17.3	17.63	1.2 - 10.7	N/A	3.64	0	N/A	13.99
AF-36	06/26/00	17.4	17.52	1.4 - 10.9	N/A	3.68	0	N/A	13.84
AF-37	06/26/00	19.8	20.07	4.4 – 14.3	N/A	6.50	0	N/A	13.57
AF-38	06/26/00	20.0	20.24	4.1 – 14.0	N/A	6.44	0	N/A	13.80
AF-39	06/26/00	21.7	22.14	4.4 – 14.3	N/A	5.12	0	N/A	17.02
AF-40	06/26/00	23.05	22.78	28.5 - 33.0	N/A	5.76	0	N/A	17.02
AF-41	06/26/00	22.70	22.33	28.5 - 33.0	N/A	5.80	0	N/A	16.53
AF-42	06/26/00	16.40	19.03	28.5 - 33.0	N/A	1.42	0	N/A	17.61
			Second S	Semiannual .	Monitoring E	vent – Janua	ry 2001		
AF-01	01/10/01	23.28	23.02	2.5 – 12.5	N/A	5.00	0	N/A	18.02
AF-02	01/10/01	22.10	21.97	2.0 - 12.0	N/A	4.61	0	N/A	17.36
AF-03	01/10/01	22.30	22.30	2.0 - 12.0	N/A	4.94	0	N/A	17.36
AF-04	01/10/01	22.32	22.24	2.0 - 12.0	N/A	4.85	0	N/A	17.39
AF-05	01/10/01	22.46	22.21	2.0 - 12.0	N/A	4.85	0	N/A	17.36
AF-07	01/10/01	23.13	22.90	2.5 – 12.5	N/A	5.27	0	N/A	17.63
AF-08	01/10/01	23.30	23.10	2.5 – 12.5	N/A	4.39	0	N/A	18.71
AF-09	01/10/01	23.11	22.93	2.0 - 12.0	N/A	4.54	0	N/A	18.39
AF-11	01/10/01	22.03	21.93	1.0 - 11.0	N/A	4.59	0	N/A	17.34
AF-12	01/10/01	23.05	22.86	2.5 – 12.5	N/A	5.32	0	N/A	17.54
AF-13	01/10/01	23.01	22.79	2.5 – 12.5	N/A	3.59	0	N/A	19.20
AF-14	01/10/01	23.33	23.04	1.4 – 11.4	N/A	3.82	0	N/A	19.22
AF-15	01/10/01	23.30	23.28	1.5 – 11.5	N/A	4.87	0	N/A	18.41
AF-16	01/10/01	22.06	22.17	1.6 – 11.6	N/A	3.70	0	N/A	18.47
AF-17	01/10/01	18.64	18.93	2.0 - 12.0	N/A	destroyed	destroyed	N/A	destroyed
AF-18	01/10/01	19.06	19.33	1.3 – 11.3	N/A	broken	broken	N/A	broken

BGS Below ground surface.
BTOC Below top of casing.
MSL Mean sea level.
N/A Not applicable.
NM Not measured.

Table 4. CAP-Part A/B Groundwater Elevations (continued)

Well Number	Date Measured	Ground Surface Elev. (ft MSL)	Top of Casing Elev. (ft MSL)	Depth of Screened Interval (ft BGS)	Depth of Free Product (ft BTOC)	Water Depth (ft BTOC)	Product Thickness (ft)	Specific Gravity Adjustment	Corrected Groundwater Elev. (ft MSL)
AF-19	01/10/01	19.52	19.70	1.4 – 11.4	N/A	3.78	0	N/A	15.92
AF-20	01/10/01	23.03	22.84	3.0 - 13.0	N/A	5.18	0	N/A	17.66
AF-23	01/10/01	23.43	23.25	3.0 - 13.0	N/A	5.28	0	N/A	17.97
AF-24	01/10/01	23.10	22.85	2.0 - 12.0	N/A	3.34	0	N/A	19.51
AF-25	01/10/01	14.75	15.01	0.1 - 10.1	N/A	0.45	0	N/A	14.56
AF-26	01/10/01	16.90	17.04	2.0 - 12.0	N/A	2.21	0	N/A	14.83
AF-27	01/10/01	16.40	16.55	1.0 - 11.0	N/A	0.97	0	N/A	15.58
AF-28	01/10/01	16.80	17.13	2.0 - 12.0	N/A	0.86	0	N/A	16.27
AF-29	01/10/01	18.90	19.06	2.0 - 12.0	N/A	3.43	0	N/A	15.63
AF-33	01/10/01	17.6	18.02	2.3 – 11.8	N/A	1.98	0	N/A	16.04
AF-34	01/10/01	17.6	17.85	1.4 - 10.9	N/A	4.21	0	N/A	13.64
AF-35	01/10/01	17.3	17.63	1.2 - 10.7	N/A	1.95	0	N/A	15.68
AF-36	01/10/01	17.4	17.52	1.4 - 10.9	N/A	2.26	0	N/A	15.26
AF-37	01/10/01	19.8	20.07	4.4 – 14.3	N/A	5.00	0	N/A	15.07
AF-38	01/10/01	20.0	20.24	4.1 – 14.0	N/A	destroyed	destroyed	N/A	destroyed
AF-39	01/10/01	21.7	22.14	4.4 – 14.3	N/A	4.91	0	N/A	17.23
AF-40	01/10/01	23.05	22.78	28.5 - 33.0	N/A	5.10	0	N/A	17.68
AF-41	01/10/01	22.70	22.33	28.5 - 33.0	N/A	5.04	0	N/A	17.29
AF-42	01/10/01	16.40	19.03	28.5 - 33.0	N/A	0.77	0	N/A	18.26
			Well Inst	allation and S	Sampling – F	ebruary/Mar	ch 2001		
AF-01	03/11/01	23.28	23.02	2.5 - 12.5	N/A	4.33	0	N/A	18.69
AF-02	03/11/01	22.10	21.97	2.0 - 12.0	N/A	4.15	0	N/A	17.79
AF-03	03/11/01	22.30	22.30	2.0 - 12.0	N/A	4.37	0	N/A	17.90
AF-04	03/11/01	22.32	22.24	2.0 - 12.0	N/A	2.69	0	N/A	19.55
AF-05	03/11/01	22.46	22.21	2.0 - 12.0	N/A	4.06	0	N/A	18.15
AF-07	03/11/01	23.13	22.90	2.5 - 12.5	N/A	4.43	0	N/A	18.47
AF-08	03/11/01	23.30	23.10	2.5 - 12.5	N/A	3.76	0	N/A	19.34
AF-09	03/11/01	23.11	22.93	2.0 - 12.0	N/A	3.81	0	N/A	19.12
AF-11	03/11/01	22.03	21.93	1.0 - 11.0	N/A	2.50	0	N/A	19.39
AF-12	03/11/01	23.05	22.86	2.5 - 12.5	N/A	4.57	0	N/A	18.29
AF-13	03/11/01	23.01	22.79	2.5 - 12.5	N/A	3.25	0	N/A	19.54
AF-14	03/11/01	23.33	23.04	1.4 – 11.4	N/A	3.15	0	N/A	19.89
AF-15	03/11/01	23.30	23.28	1.5 – 11.5	N/A	4.20	0	N/A	19.08
AF-16	03/11/01	22.06	22.17	1.6 – 11.6	N/A	3.51	0	N/A	18.66
AF-17	03/11/01	18.64	18.93	2.0 - 12.0	N/A	NM	NM	NM	NM
AF-18	03/11/01	19.06	20.13	1.3 – 11.3	N/A	3.45	0	N/A	16.68
AF-19	03/11/01	19.52	19.68	1.4 – 11.4	N/A	3.17	0	N/A	16.51
AF-20	03/11/01	23.03	22.84	3.0 - 13.0	N/A	4.50	0	N/A	18.34

BGS Below ground surface.
BTOC Below top of casing.
MSL Mean sea level.
N/A Not applicable.
NM Not measured.

Table 4. CAP-Part A/B Groundwater Elevations (continued)

Well	Date	Ground Surface Elev.	Top of Casing Elev.	Depth of Screened Interval	Depth of Free Product	Water Depth	Product Thickness	Specific Gravity	Corrected Groundwater Elev.
	Measured		`	(ft BGS)	(ft BTOC)		· · ·	Adjustment	
AF-23	03/11/01	23.43	23.25	3.0 – 13.0	N/A	4.65	0	N/A	18.60
AF-24	03/11/01	23.10	22.85	2.0 - 12.0	N/A	2.72	0	N/A	20.13
AF-25	03/11/01	14.75	15.03	0.1 - 10.1	N/A	0.29	0	N/A	14.74
AF-26	03/11/01	16.90	17.65	2.0 – 12.0	N/A	1.35	0	N/A	16.30
AF-27	03/11/01	16.40	16.5	1.0 - 11.0	N/A	0.45	0	N/A	16.05
AF-28	03/11/01	16.80	17.11	2.0 - 12.0	N/A	0.20	0	N/A	16.91
AF-29	03/11/01	18.90	19.06	2.0 - 12.0	N/A	2.81	0	N/A	16.25
AF-33	03/11/01	17.6	18.07	2.3 - 11.8	N/A	0.97	0	N/A	17.10
AF-34	03/11/01	17.6	17.85	1.4 – 10.9	N/A	2.45	0	N/A	15.40
AF-35	03/11/01	17.3	17.63	1.2 - 10.7	N/A	1.03	0	N/A	16.60
AF-36	03/11/01	17.4	17.52	1.4 – 10.9	N/A	1.39	0	N/A	16.13
AF-37	03/11/01	19.8	20.06	4.4 – 14.3	N/A	4.11	0	N/A	15.95
AF-38	03/11/01	20.0	20.14	4.1 - 14.0	N/A	NM	NM	NM	NM
AF-39	03/11/01	21.7	22.12	4.4 – 14.3	N/A	4.68	0	N/A	17.44
AF-40	03/11/01	23.05	22.78	28.5 - 33.0	N/A	4.51	0	N/A	18.27
AF-41	03/11/01	22.70	22.33	28.5 - 33.0	N/A	4.45	0	N/A	17.88
AF-42	03/11/01	16.40	19.03	28.5 - 33.0	N/A	0.53	0	N/A	18.50
AF-53	03/11/01	23.31	22.93	20.0 - 30.0	N/A	3.85	0	N/A	19.08
AF-54	03/11/01	22.77	22.43	32.4 - 42.4	N/A	3.87	0	N/A	18.56
AF-55	03/11/01	23.14	22.76	24.0 - 34.0	N/A	3.78	0	N/A	18.98
AF-56	03/11/01	23.27	22.99	19.9 - 29.9	N/A	3.77	0	N/A	19.22
AF-57	03/11/01	19.90	22.21	57.8 - 62.8	N/A	3.45	0	N/A	18.76
AF-58	03/11/01	19.70	22.32	2.7 - 12.7	N/A	NM	NM	NM	NM
AF-59	03/11/01	22.69	22.33	2.3 - 12.3	N/A	3.93	0	N/A	18.40
AF-60	03/11/01	24.08	23.77	20.0 - 30.0	N/A	3.13	0	N/A	20.64
AF-61	03/11/01	23.79	23.47	20.0 - 30.0	N/A	3.76	0	N/A	19.71
AF-62	03/11/01	22.60	22.11	3.0 - 13.0	N/A	3.36	0	N/A	18.75
				llation and	Sampling – O	ctober/Decen	ıber 2002		
AF-01	12/18/02	23.28	23.02	2.5 - 12.5	N/A	3.23	0	N/A	19.79
AF-02	12/18/02	22.10	21.97	2.0 - 12.0	NM	NM	NM	NM	NM
AF-03	12/18/02	22.30	22.30	2.0 - 12.0	N/A	3.63	0	N/A	18.67
AF-04	12/18/02	22.32	22.24	2.0 - 12.0	N/A	2.22	0	N/A	20.02
AF-05	12/18/02	22.46	22.21	2.0 - 12.0	N/A	2.89	0	N/A	19.32
AF-07	12/18/02	23.13	22.90	2.5 - 12.5	N/A	3.50	0	N/A	19.40
AF-08	12/18/02	23.30	23.10	2.5 - 12.5	N/A	2.91	0	N/A	20.19
AF-09	12/18/02	23.11	22.93	2.0 - 12.0	N/A	2.76	0	N/A	20.17
AF-11	12/18/02	22.03	21.93	1.0 - 11.0	N/A	2.19	0	N/A	19.74

BGS Below ground surface.
BTOC Below top of casing.
MSL Mean sea level.
N/A Not applicable.
NM Not measured.

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Table 4. CAP-Part A/B Groundwater Elevations (continued)

Well	Date Measured	Ground Surface Elev.	Top of Casing Elev.	Depth of Screened Interval (ft BGS)	Depth of Free Product (ft BTOC)	Water Depth	Product Thickness (ft)	Specific Gravity Adjustment	Corrected Groundwater Elev. (ft MSL)
AF-12	12/18/02	23.05	22.86	2.5 – 12.5	N/A	3.41	0	N/A	19.45
AF-13	12/18/02	23.03	22.79	2.5 - 12.5 $2.5 - 12.5$	N/A	2.22	0	N/A	20.57
AF-14	12/18/02	23.33	23.04	1.4 – 11.4	N/A	2.16	0	N/A	20.88
AF-15	12/18/02	23.30	23.28	1.5 – 11.5	NM	NM	NM	NM	NM
AF-16	12/18/02	22.06	22.17	1.6 – 11.6	N/A	2.43	0	N/A	19.74
AF-17	12/18/02	18.64	18.93	2.0 – 12.0	NM	NM	NM	NM	NM
AF-18	12/18/02	19.06	20.13	1.3 – 11.3	N/A	2.89	0	N/A	17.24
AF-19	12/18/02	19.52	19.68	1.4 – 11.4	NM	NM	NM	NM	NM
AF-20	12/18/02	23.03	22.84	3.0 – 13.0	N/A	3.51	0	N/A	19.33
AF-23	12/18/02	23.43	23.25	3.0 – 13.0	N/A	3.61	0	N/A	19.64
AF-24	12/18/02	23.10	22.85	2.0 – 12.0	N/A	1.81	0	N/A	21.04
AF-25	12/18/02	14.75	15.03	0.1 – 10.1	N/A	0.00	0	N/A	15.03
AF-26	12/18/02	16.90	17.65	2.0 – 12.0	N/A	0.00	0	N/A	17.63
AF-27	12/18/02	16.40	16.5	1.0 – 11.0	N/A	0.00	0	N/A	16.50
AF-28	12/18/02	16.80	17.11	2.0 - 12.0	N/A	artesian	0	N/A	+17.11
AF-29	12/18/02	18.90	19.06	2.0 - 12.0	N/A	1.85	0	N/A	17.21
AF-33	12/18/02	17.6	18.07	2.3 – 11.8	N/A	artesian	0	N/A	+18.07
AF-34	12/18/02	17.6	17.85	1.4 – 10.9	N/A	0.12	0	N/A	17.73
AF-35	12/18/02	17.3	17.63	1.2 - 10.7	N/A	0.00	0	N/A	17.63
AF-36	12/18/02	17.4	17.52	1.4 – 10.9	N/A	0.17	0	N/A	17.35
AF-37	12/18/02	19.8	20.06	4.4 – 14.3	broken	broken	broken	broken	broken
AF-38	12/18/02	20.0	20.14	4.1 – 14.0	NM	NM	NM	NM	NM
AF-39	12/18/02	21.7	22.12	4.4 – 14.3	N/A	3.73	0	N/A	18.39
AF-40	12/18/02	23.05	22.78	28.5 - 33.0	N/A	3.31	0	N/A	19.47
AF-41	12/18/02	22.70	22.33	28.5 - 33.0	N/A	3.20	0	N/A	19.13
AF-42	12/18/02	16.40	19.03	28.5 - 33.0	N/A	artesian	0	N/A	+19.03
AF-53	12/18/02	23.31	22.93	20.0 - 30.0	N/A	2.62	0	N/A	20.31
AF-54	12/18/02	22.77	22.43	32.4 – 42.4	N/A	2.32	0	N/A	20.11
AF-55	12/18/02	23.14	22.76	24.0 - 34.0	N/A	2.62	0	N/A	20.14
AF-56	12/18/02	23.27	22.99	19.9 – 29.9	N/A	2.53	0	N/A	20.46
AF-57	12/18/02	19.90	22.21	57.8 - 62.8	N/A	1.88	0	N/A	20.33
AF-58	12/18/02	19.70	22.32	2.7 - 12.7	N/A	4.89	NM	NM	17.43
AF-59	12/18/02	22.69	22.33	2.3 - 12.3	N/A	2.82	0	N/A	19.50
AF-60	12/18/02	24.08	23.77	20.0 - 30.0	N/A	1.98	0	N/A	21.79
AF-61	12/18/02	23.79	23.47	20.0 - 30.0	N/A	2.43	0	N/A	21.04
AF-62	12/18/02	22.60	22.11	3.0 - 13.0	N/A	2.26	0	N/A	19.85
AF-68	12/18/02	24.40	24.26	34.5 - 39.5	N/A	3.65	0	N/A	20.61
AF-69	12/18/02	24.70	23.83	40.2 - 45.2	N/A	4.32	0	N/A	19.51

BGS Below ground surface.
BTOC Below top of casing.
MSL Mean sea level.
N/A Not applicable.
NM Not measured.

Table 4. CAP-Part A/B Groundwater Elevations (continued)

Well Number	Date Measured	Ground Surface Elev. (ft MSL)	Elev.	Depth of Screened Interval (ft BGS)	Free	-	Product Thickness (ft)	. 1	Corrected Groundwater Elev. (ft MSL)
AF-70	12/18/02	24.40	24.00	15.0 - 20.0	N/A	2.77	0	N/A	21.23
AF-71	12/18/02	23.20	23.06	15.3 - 20.3	N/A	3.58	0	N/A	19.48
AF-72	12/18/02	17.80	17.72	2.5 – 12.5	N/A	0.20	0	N/A	17.52

BGS Below ground surface.
BTOC Below top of casing.
MSL Mean sea level.
N/A Not applicable.

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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APPENDIX III

WATER RESOURCES SURVEY DOCUMENTATION

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WATER RESOURCES SURVEY DOCUMENTATION

1.0 LOCAL WATER RESOURCES

As required by the Georgia Environmental Protection Division (GA EPD) Underground Storage Tank (UST) Corrective Action Plan (CAP)–Part A guidance (GA EPD 1998), a water resources survey documenting information for public and nonpublic water supply wells, surface water bodies, underground utilities, and potential receptors was conducted for the USTs 25 & 26 site. The information presented in this section provides the supporting documentation for Section II.D.1 of the CAP–Part B Report (SAIC 2000).

1.1 WATER SUPPLY WELL SURVEY

The water supply well survey was conducted in accordance with the following GA EPD guidelines/requirements:

- Hunter Army Airfield (HAAF) is located in an area of average or higher groundwater pollution susceptibility (GA EPD 1976).
- All public supply wells, as defined by GA EPD, that exist within 2 miles of the investigation sites were located.
- All nonpublic supply wells that exist within 0.5 mile of the investigation sites were located.
- All supply wells nearest the investigation sites were located.
- All wells downgradient of the investigation sites were located.

The required survey was accomplished by obtaining information for the Fort Stewart Directorate of Public Works (DPW) and the City of Savannah Bureau of Water Operations, performing a field survey, obtaining a U.S. Environmental Protection Agency site map displaying the public water supply for HAAF, and conducting a U.S. Geological Survey (USGS) database search. A summary of the information obtained from the survey is provided in the following sections.

1.1.1 Fort Stewart Directorate of Public Works Survey Summary

According to the DPW, nine water supply wells are located within the confines of the HAAF area. These wells have the potential to provide up to 3,890 gal/min of water to occupants of the HAAF installation. The Fort Stewart DPW was unable to provide documentation listing the companies responsible for well installation and drillers' logs showing as-built information and subsurface geologic data. The DPW provided well locations, pumps rates, treatment methods, casing depths, and total depths for three of the nine wells located within 3 miles of the subject site (Table III-A). Documentation of subsurface geology based on HAAF drilling logs, however, remains extremely limited; therefore, other references containing deep-well information were used to document the subsurface geology and aquifer characteristics beneath the HAAF area.

Wells 1, 2, and 3 are located within a 2-mile radius of the USTs 25 & 26 site. Wells 1 and 2 are both public water supply wells located in the cantonment area of HAAF and constitute the main water supply system at the HAAF installation. Well 1, located at Building 711 on the corner of Moore Road and Douglas Street, is a 12-in.-diameter well with a 100-hp turbine pump serving a 100,000-gal elevated storage tank (Tank 1) through 10-in. lines. Water from Well 1 is injected with hydrofluosilic acid and chlorine gas solution at the well house. Well 2, located at Building 1205 on the corner of Neal Street and Strachan Road, is a 12-in.-diameter well with a 100-hp turbine pump serving a 200,000-gal elevated tank (Tank 2) through 10-in. lines. Water

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from Well 2 is also injected with hydrofluosilic acid and chlorine gas solution at the well house. Wells 1 and 2 provide water to a 500,000-gal elevated storage tank (Tank 3) located on Middleground Road behind the Noncommissioned Officer family housing. This tank provides potable water to 694 service connections, which are used by an average of at least 5,000 individuals year-round.

Well 3, is a public supply well located outside the cantonment area of HAAF. Well 3, located at Building 8455, is a 4.0-in.-diameter well with a 1.0-hp electric submersible pump serving a 1,000-gal hydropneumatic storage tank through 1.5-in. galvanized steel lines. Water from Well 3 is treated with calcium hypochlorite solution and is consumed by approximately 25 people during daytime hours year-round.

Pumping rates, casing depths, bore depths, treatment methods, and storage tank information for Wells 1, 2, and 3 are provided in Table III-A.

1.1.2 City of Savannah Bureau of Water Operations Survey Summary

The locations of supply wells found outside the boundary of HAAF that are within 2 miles of the USTs 25 & 26 site are shown on Figure 17, Appendix I. Data concerning casing depths, borehole depths, casing sizes, and capacities are listed in Table III-B. The City of Savannah Bureau of Water Operations was unable to provide drilling logs or as-built well information.

1.2 SURFACE WATER BODIES

Surface water in the state of Georgia, as defined by *Rules and Regulations for Water Quality Control, Chapter 391-3-6* (GA EPD 1998), means any and all rivers; streams; creeks; branches; lakes; reservoirs; ponds; drainage systems; springs producing 100,000 gal/day; and all other bodies of surface water, natural or artificial, lying within or forming a part of the boundaries of the state that are not entirely confined and retained completely upon the property of a single individual, partnership, or corporation. The surface-water-body survey was conducted in accordance with the following GA EPD guidelines/requirements:

- surface water bodies that exist within 1 mile of the investigation sites,
- all surface water bodies nearest the investigation sites if these bodies lie outside the 1-mile radius of concern,
- all surface water bodies downgradient of the investigation sites, and
- the storm and sanitary sewers adjacent to investigation sites.

The locations of surface water bodies at HAAF were obtained from USGS topographic maps and from maps provided by the DPW. Storm and sanitary sewer location maps, storm sewer invert elevations, and storm sewer and culvert construction details were also provided by the DPW.

1.3 POTENTIAL RECEPTOR SURVEY SUMMARY OF THE USTS 25 & 26 SITE

Earth Tech, Inc., conducted a field potential receptor survey for the USTs 25 & 26 site on November 19, 1998. The site and adjacent areas were surveyed for locations of surface water bodies, utility lines, and basements. Basements do not exist in the buildings adjacent to the site. Additional information, provided by the Fort Stewart DPW, was used to determine the location of the nearest public supply wells and downgradient surface water bodies not located during the field survey.

1.3.1 Water Supply Wells Near USTs 25 & 26 Site

The following information is presented to provide supplemental information to Section II.D.1 of the CAP–Part B Report (SAIC 2000) and provides detailed information relating to public and nonpublic water supply wells located 2 miles and 1/2 mile, respectively, from the USTs 25 & 26 site.

- Well 1, on the corner of Moore Road and Douglas Street at Building 711, is located approximately 6,500 ft north-northwest (upgradient) of the USTs 25 & 26 site.
- Well 2, at Building 1205 on the corner of Neal Street and Strachan Road, is located approximately 2,900 ft northwest (upgradient) of the USTs 25 & 26 site.
- Well 3, at Building 8455, is approximately 11,000 ft southwest (cross gradient) of the USTs 25 & 26 site.

The USTs 25 & 26 site is, therefore, classified as being located more than 500 ft from these withdrawal points. Based on the estimated nature and extent of petroleum-related groundwater contamination at the site, there is no indication that Well 1, 2, or 3 has been impacted; therefore, collection and analysis of groundwater samples from Wells 1, 2, and 3 are not recommended.

1.3.2 Surface Water Bodies Near the USTs 25 & 26 Site

A small drainage ditch is located approximately 75 ft southeast of the Building 1343, 260th Quartermaster Motor Pool site and ultimately flows southeast and off-site toward the Vernon River. The Springfield Canal lies 7,000 ft to the west-northwest of the USTs 25 & 26 site and flows into the Little Ogeechee River. Because of the ditch 75 ft southeast of the USTs 25 & 26 site, the site is classified as being less than 500 ft from a downgradient surface water body.

1.3.3 Underground Utilities at the USTs 25 & 26 Site

Numerous water and electrical underground utilities are located southeast (downgradient) of the site. The depth of these lines is estimated to be approximately 2 to 3 ft below ground surface (BGS). In addition, a force main for the sanitary sewer is located approximately 5 ft southeast of the UST 25 tank. The invert depth of this line is approximately 3.0 ft BGS. Three wells are located adjacent to the force main, and in March 2001 the depths to groundwater in these wells were 4.33 ft in AF-01, 4.43 ft in AF-07, and 4.50 ft in AF-20; therefore, the invert depth of the force main is located approximately 1.5 ft above the water table.

2.0 REFERENCES

- GA EPD (Georgia Environmental Protection Division) 1976. *Geologic Map of Georgia*, Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey (reprinted 1997).
- GA EPD 1998. Rules of Georgia Department of Natural Resources, Environmental Protection Division, Chapter 391-3-6, Water Quality Control, May.
- SAIC (Science Applications International Corporation) 2000. *Corrective Action Plan-Part B for USTs 25 & 26, Facility ID #9-025008, Building 1343, Hunter Army Airfield, Georgia*, February.

Table III-A. Water Supply Well Information Provided by the Fort Stewart DPW

Building	Well ID	Year Drilled	Bore Depth	Casing Depth	Pumping Rate (gpm)	Number of Service Connections	Population	Public or Nonpublic Supply
711	1	1941	550	250	1,300	525	7,500	Public
1205	2	1941	600	250	1,300	525	7,500	Public
8455	3	1951	360	40	30	2	25	Public
8581	4a	1976	300	92	80	10	15	Public

DPW Directorate of Public Works.

gpm Gallons per minute.

Table III-B. Water Supply Information Provided by the City of Savannah Bureau of Water Operations

	Year	Bore	Casing	Pumping Rate	Number of Service		Public or Nonpublic
Well ID	Drilled	Depth	Depth	(gpm)	Connections	Population	Supply
6	TBD	750	1,240	1,500	TBD	TBD	Public
13	TBD	TBD	TBD	2,200	TBD	TBD	Public
14	TBD	800	338	571	TBD	TBD	Public
15	TBD	414	252	1,000	TBD	TBD	Public
23	TBD	639	320	1,056	TBD	TBD	Public
25	TBD	540	287	1,120	TBD	TBD	Public
27	TBD	550	321	1,468	TBD	TBD	Public

gpm TBD Gallons per minute.

To be determined.

APPENDIX IV SOIL BORING LOGS

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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Boring logs associated with borings AF-01 through AF-39 that were installed as part of the initial Corrective Action Plan (CAP)—Part B investigation were provided in the CAP—Part B report dated February 2000.

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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Boring logs associated with borings AF-40 through AF-62 that were installed as part of the first supplemental investigation of the chlorinated solvent plume were provided in the CAP-Part B Addendum #1 report dated June 2001.

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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USTs 25 & 26	6. Building 134	43. Facility ID	#9-025008

BORING LOGS ASSOCIATED WITH BORINGS AF-63 THROUGH AF-72 (JULY 2002 THROUGH DECEMBER 2002)

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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		HTRW DRILL	ING LOG			HOLE NUMBER: AF-63
PROJEC'	T: USTs 25		SPECTOR: T. Co		1	SHEET 1 OF 3
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	2	Vertical profile borehole for the purpose of collecting groundwater samples. No soil was collected for lithlogic description.			Groundwater Sample AF6312	Water at ~4 ft bgs
	8				Groundwater Sample AF6322	
	12				Groundwater Sample AF6332	
	16				Groundwater Sample AF6342	

PD C I T C		HTRW DRIL				HOLE NUMBER: AF-63
	CT: USTs 25 &		INSPECTOR: T. C			SHEET 2 OF 3
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	p s	Vertical profile borehole for the urpose of collecting groundwater amples. No soil was collected for thlogic description.			Groundwater Sample AF6352	
	28				Groundwater Sample AF6362	
	32				Groundwater Sample AF6372	
	36				Groundwater Sample AF6382	

	III LIGHT OF O	HOLE NUMBER AF-63				
	T: USTs 25 &	SHEET 3 OF 3				
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
i	'\	Vertical profile borehole for the ourpose of collecting groundwater				
	l ∃s	amples. No soil was collected for ithlogic description.		}	l e	
	42	unogie description.			amp	
					ter S	
					Groundwater Sample AF6392	
	# =				roun	
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	E	and of drilling at 45.0 ft BGS				
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		HTRW DRILL				HOLE NUMBER: AF-64
			NSPECTOR: T. C			SHEET LOF 3
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Vertical profile borehole for the purpose of collecting groundwater samples. No soil was collected for lithlogic description.	WAS CLASS	OR CORL BOX	Groundwater Sample Insufficient volume AF6422 for sampling	
	10				Groundwater Sample AF6432 AI	
	16				Groundwater Sample AF6442	

		HOLE NUMBER: AF-64				
			SPECTOR: T. C	· · · · · · · · · · · · · · · · · · ·		SHEET 2 OF 3
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO.	REMARKS (G)
	22	Vertical profile borehole for the purpose of collecting groundwater samples. No soil was collected for lithlogic description.	AGGELIA	OK CORE BOX	Groundwater Sample AF6452	
	26				Groundwater Sample AF6462	
	32				Groundwater Sample AF6472	
	36				Groundwater Sample AF6482	

		HTRW DRILL				HOLE NUMBER AF-64
			NSPECTOR: T. C	Coffey		SHEET 3 OF 3
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	=					
	=	Vertical profile borehole for the purpose of collecting groundwater				
	42	samples. No soil was collected for lithlogic description.			ble	
					Sam 2	
	<u> </u>				vater F649	
	44				Groundwater Sample AF6492	
					Gro	
		End of drilling at 45.0 ft BGS				
	46					
						 - -
	48				i	
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	50					Ė
			:			
	52					
	4					
	54					<u> </u>
	" =					
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	56					
Ì	\exists					<u> </u>
ļ	\exists					
ļ	58					-
	\exists					
	\exists					
	60		137.14			

	HOLE NUMBER: AF-65					
	T: USTs 25	SHEET 1 OF 3				
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Vertical profile borehole for the purpose of collecting groundwater samples. No soil was collected for lithlogic description.	RESULTS	OR CORE BOX	Groundwater Sample Groundwater Sample AF6512	Water at ~4.5 ft bgs
	12				Groundwater Sample AF6532	
	16				Groundwater Sample AF6542	

		HOLE NUMBER: AF-65				
	Г	HTRW DRIL	INSPECTOR:			SHEET 2 OF 3
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENIN RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
			KEAAAA	ON CORE BOX	(F)	
		Vertical profile borehole for the purpose of collecting groundwater				
		samples. No soil was collected for lithlogic description.			ımple	
					dwater Si AF6552	
	24				Groundwater Sample AF6552	
•					Gro	
	26					
					mple	
	28				Groundwater Sample AF6562	
					ndwater S AF6562	
					Grou	
	30					
	32			e e	ıple .	
	=				Groundwater Sample AF6572	
					dwater S AF6572	
	34				Grour	
	=					
	36					
					ple	
	38				Groundwater Sample AF6582	
	38				dwater S AF6582	i
					roun	
	40				<u> </u>	

		HTRW DRIL	LING LOG			HOLE NUMBER AF-65
	T: USTs 25	SHEET 3 OF 3				
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	=	Vertical profile borehole for the purpose of collecting groundwater				
	1 =	samples. No soil was collected for lithlogic description.			le le	
	42	nunogie description.			amp	
					ter S	
					Groundwater Sample AF6592	
			į		r.com	
		End of drilling at 45.0 ft BGS				
	46					
·	48				<u>}</u>	
					!	
i						
	50					
	52 _					
	54		ļ			
	E					
	\exists		ļ			•
	56					
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						ŀ
	58			,		
	\exists					<u> </u>
1	60				İ	F

	LING LOG			HOLE NUMBER: AF-66				
	PROJECT: USTs 25 & 26 at HAAF INSPECTOR: T. Coffey							
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	SHEET 1 OF 3 REMARKS (G)		
		Vertical profile borehole for the purpose of collecting groundwater						
	2	samples. No soil was collected for lithlogic description.			Groundwater Sample AF6612	Water at ~4 ft bgs		
	8				Groundwater Sample AF6622			
	12				Groundwater Sample AF6632			
	18				Groundwater Sample AF6642			

		HOLE NUMBER: AF-66				
		& 26 at HAAF	SPECTOR: T. C	offey		SHEET 2 OF 3
ELÉV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		V	1000113	ON CORE BOX	(1)	
	22	Vertical profile borehole for the purpose of collecting groundwater samples. No soil was collected for lithlogic description.			Groundwater Sample AF6652	
	26				Gro	
	28				Groundwater Sample AF6662	
	30				Groun	
	32				Groundwater Sample AF6672	
	36				Groundwater Sample AF6682	

		HTRW DRILI	JNG LOG			HOLE NUMBER AF-66	7
		5 & 26 at HAAF	NSPECTOR: T. C	offey		SHEET 3 OF 3	7
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)	1
	=						ŧ
	_	Vertical profile borehole for the purpose of collecting groundwater		<u> </u> 			F
	_	samples. No soil was collected for			<u>a</u>		E
	42	lithlogic description.			amp		E
	_				ter S 692		F
	=				dwater S		F
	44				Groundwater Sample AF6692		E
	=				5		E
	_	End of drilling at 45.0 ft BGS					F
	46						F
	_						E
	48						E
							E
	=						E
							E
	50						E
							E
	52						
							Ė
							F
	54						
							E
					:		E
	56						E
							E
							E
	58						E
	58						E
							E
	\exists						E
	60 -						F

		HOLE NUMBER: AF-67				
	T: USTs 25	SHEET 1 OF 3				
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Vertical profile borehole for the purpose of collecting groundwater samples. No soil was collected for lithlogic description.				
	1	ogie description.			Insufficient volume for sampling	Water at ~4.5 ft bgs
	8				Groundwater Sample AF6722	
	12				Groundwater Sample AF6732	
	16				Groundwater Sample AF6742	

		HOLE NUMBER: AF-67				
		& 26 at HAAF	NSPECTOR: T. C	offey		SHEET 2 OF 3
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
		Vertical profile borehole for the	NSSEELS.	ON COND BOX	(F)	
	22	purpose of collecting groundwater samples. No soil was collected for lithlogic description.			Groundwater Sample AF6752	
	26					
	28				Groundwater Sample AF6762	
	30					
	32				Groundwater Sample AF6772	
	36				Groundwater Sample AF6782	

		HTRW DRILL				HOLE NUMBER AF-67
			NSPECTOR: T. O			SHEET 3 OF 3
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO. (F)	REMARKS (G)
	42	Vertical profile borehole for the purpose of collecting groundwater samples. No soil was collected for lithlogic description.			mple	
	44				Groundwater Sample AF6792	
		End of drilling at 45.0 ft BGS				
	46					
	48		<u> </u>			
	50					
	52			;		
į	54					
	56					
	58					
	60					

PRODUCT: (1575 25 + 26 NSPECTOR 1), Parker BERRY DEPTH OF THE PRODUCT OF THE STREET O
BESCHIPTION OF MATERIALS ASPINAL ASPINAL ASPINAL ASPINAL SAND W/SILT (SP-SM) Time grained, subangular, LIDY (b/1) ASPIND W/SILT (SP-SM), fine grained, subangular, becoming saturated, greenish gray (LOY (b/1)) 1130ppm ASMATTRAD ASMATTRAD ASMATTRAD ASMATTRAD FOR CHORD DX FOR CHORD DX FOR CHORD DX FOR CHORD DX FOR CHORD DX FOR CHORD DX FOR CHORD DX FOR CHORD DX FOR CHORD DX FOR CHORD DX FOR CHORD DX FOR CHORD DX FOR
Asphall SAND W/SILT (SP-SM) Time grained, subangular, moist, greenish gray (LIDY 6/1) 1990 SAND W/SILT (SP-SM), fine grained, subangular, becoming saturated, greenish gray (10Y 6/1) 1130ppm V wet below 6.0 FT

-		HTRW DRILL	ING LOG			HOLE NUMBERAF 69
PROJEC		525 i 26	SPECTOR W.	Parker		SHEET LOF1
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO (F)	REMARKS (G)
	- 11	Asphalt SAND W/SILT (SP-SM), fine grained, subangular, Moist to saturated, white brown to Pinkish gray (5 YR 7/2)	Ø.Øppm			
	3		O. & ppm			
	4					Vwet below 5.0 ft
	6	NO RECOVERY				
	7					
	9					
		END OF DRILLING AT 50.0 FT				

		HTRW DRILI	ING LOG		 ,	HOLE NUMBER AF - 70	5]
			NSPECTOR ${\cal W}$	· Parker	_	SHEET 1 OF 1	7
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO.	REMARKS (G)	7
	(B)	SILTY SAND (SM), fine to medium grained, Subangular, moist to saturated, gray (7.5 YR 5/1)	SCREENING	SAMPLE OR CORE BOX	SAMPLE NO. (F)	Vwet below 4.0 A	
	<u>,, = = = = = = = = = = = = = = = = = = </u>	END OF DRILLING AT 21.0 PT					E

PROJECT: USTS 25 £ 26 NSPECULO DISPITED STREET DESCRIPTION OF MYTHERALS NSPECULO DISPITED STREET DESCRIPTION OF MYTHERALS ASPITULT SAND (SP), Medium graved Subangular, Moist to Saturated, gray (5 78 49) 2.0 ppm 2.0 ppm Wet below 4.0 ft	ELEV.	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING		ANALYTICAL		SHEET 1 OF I	
ELLY (A) (B) DESCRIPTION OF MATERIALS SAFERING SCREENING (C) SCREENING SCREENING SAMPLE NO OR CORE BOX (F) ANALYTICAL SAMPLE NO OR CORE BOX (F) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G		(B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING		ANALYTICAL			
Aspralt SAND (SP), Medium grained, Subangular, Moist to Saturated, gray (5 YR 4), 2.0ppm Wet below 4.0 ft			Asphalt		OR CORE BOX	SAMPLE NO.		(G)	
		3 4 5 6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	SAND (SP), Medium grained, Subangular, Moist to Saturated, gray (5 YR 6/1)	2.0ppm	OR CORE BOX	SAMPLE NO. (F)	∑ We	(G)	

		HTRW DRILI	JNG LQG				HOLE NUMBER AF. 7	2]
PROJEC	7: US1	5 25 2 26 1	NSPECTOR W .	Parker			SHEET 1 OF 1	\neg
ELEV. (A)	DEPTH (B)	DESCRIPTION OF MATERIALS (C)	HEADSPACE SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX	ANALYTICAL SAMPLE NO.		REMARKS (G)	
		SILTYSAND (SM), fine to medium grained, subangular, soft, moist to saturated, light brown is n gray (2.5 y 6/2) SILTY SAND (SM) fine to medium grained, interbeds to black clay, black (2.5 y /1)		OR CORE BOX	(F)	∑ we	et below 30 FT	
	5	SILTY SAND (SM) fine to medium grained interbeds of black clay, black (2.5 Y/1)	24.0ppm					
	7	SILTY SAND (SM), fine to medium grained, Saturated, Soft to firm, light greenish gray (567/1)	18,5ppm					
	9	ENDOF DRILLINGAT 13.0 FT	20.5 ppm					

APPENDIX V

SOIL AND SEDIMENT LABORATORY RESULTS

No soil samples were collected as part of the Corrective Action Plan (CAP)—Part A investigation; however, analytical data sheets associated with the closure activities were provided in the CAP—Part A report dated March 1999. Soil samples were collected during the initial CAP—Part B investigation, and the analytical results were provided in the CAP—Part B report dated February 2000.

APPENDIX VI

ALTERNATE CONCENTRATION LIMIT AND ALTERNATE THRESHOLD LEVEL CALCULATIONS

Alternate concentration limits for constituents in groundwater [i.e., benzene, benzo(a)pyrene, and naphthalene] and alternate threshold levels for constituents in soil (i.e., benzene) were calculated in the Corrective Action Plan–Part B report dated February 2000.

Alternate concentration limits for constituents in groundwater were recalculated in the first annual monitoring only report dated July 2001.

03-051(doc)/040103 VI-3

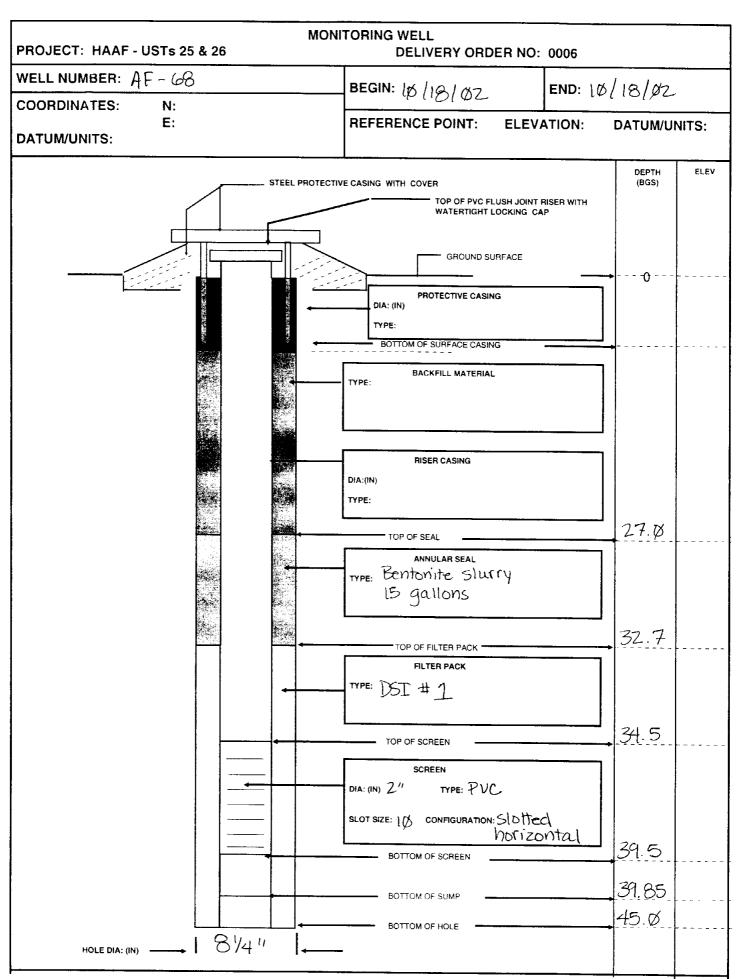
APPENDIX VII MONITORING WELL DETAILS

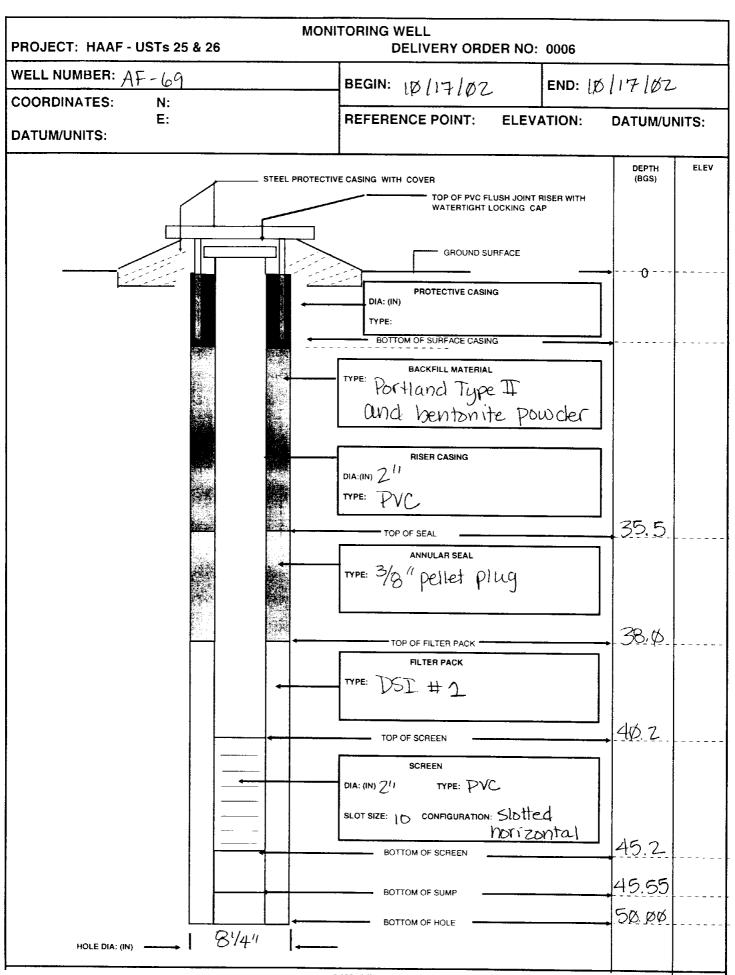
Well construction diagrams associated with wells AF-01 through AF-39 that were installed as part of the initial Corrective Action Plan (CAP)–Part B investigation were provided in the CAP–Part B report dated February 2000.

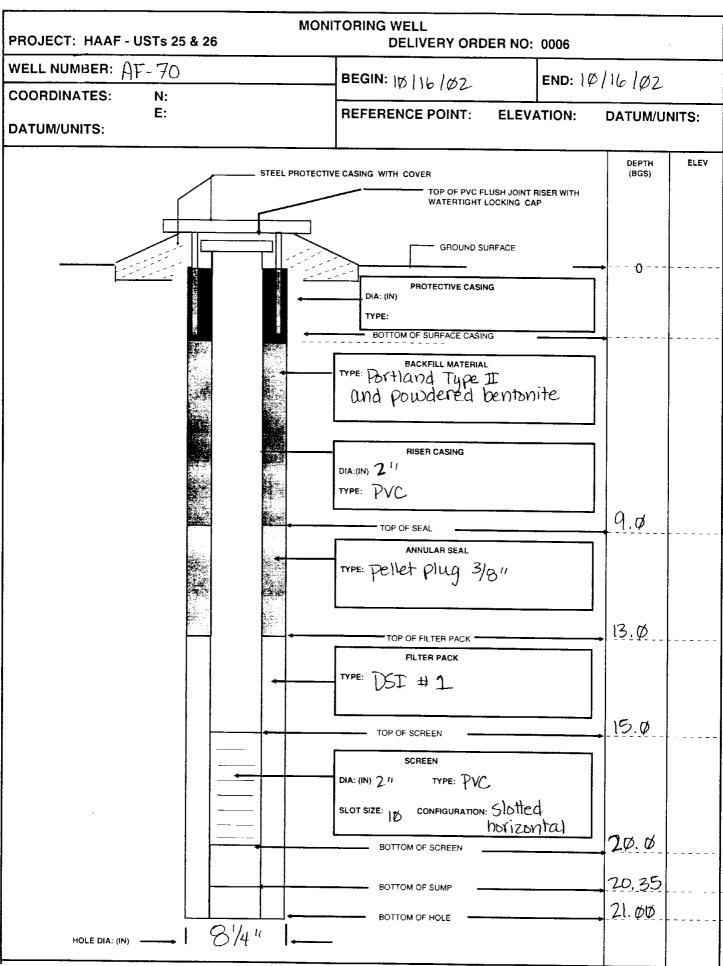
Well construction diagrams associated with wells AF-40 through AF-62 that were installed as part of the first supplemental investigation of the chlorinated solvent plume were provided in the CAP-Part B Addendum #1 report dated June 2001.

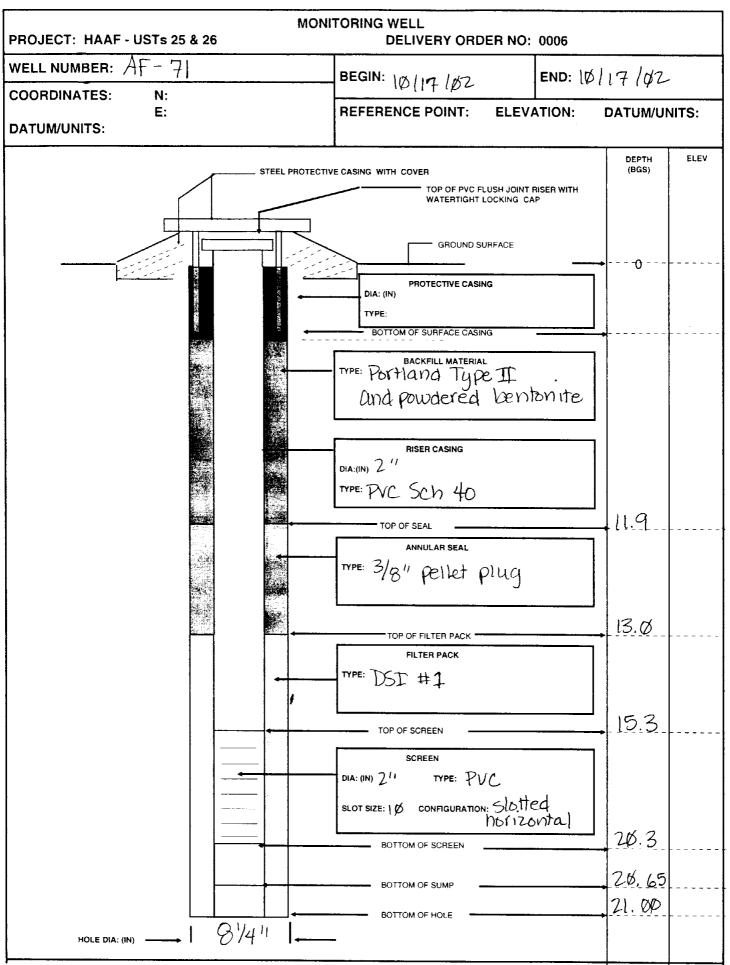
WELL CONSTRUCTION DIAGRAMS ASSOCIATED WITH WELLS AF-68 THROUGH AF-72

(OCTOBER 2002 THROUGH DECEMBER 2002)









MONITORING WELL PROJECT: HAAF - USTs 25 & 26 **DELIVERY ORDER NO: 0006** WELL NUMBER: AF - 72 END: 10/16/02 BEGIN: 10/16/02 **COORDINATES:** N: E: REFERENCE POINT: **ELEVATION: DATUM/UNITS: DATUM/UNITS:** ELEV DEPTH (BGS) STEEL PROTECTIVE CASING WITH COVER TOP OF PVC FLUSH JOINT RISER WITH WATERTIGHT LOCKING CAP GROUND SURFACE PROTECTIVE CASING DIA: (IN) TYPE: BOTTOM OF SURFACE CASING BACKFILL MATERIAL TYPE: RISER CASING DIA:(IN) $2^{\prime\prime}$ TYPE: PVC 0.5 TOP OF SEAL ANNULAR SEAL TYPE: 3/8" perlet plug TOP OF FILTER PACK TYPE: DST #1 TOP OF SCREEN SCREEN DIA: (IN) 21/ TYPE: PVC configuration: Slotted Notizontal 10# 12.5 BOTTOM OF SCREEN 12.85 BOTTOM OF SUMP 13.00 BOTTOM OF HOLE HOLE DIA: (IN)

APPENDIX VIII

GROUNDWATER AND SURFACE WATER LABORATORY RESULTS

Hunter Army Airfield U	JST CAP–Part I	3 Addendum #2 Repor	t
USTs 25 & 26	Building 1343	Facility ID #9-025008	₹

CORRECTIVE ACTION PLAN-PART B GROUNDWATER SAMPLING SEPTEMBER 1999

Table VIII-A. Summary of September 1999 Groundwater Analytical Results

Station: Sample ID: Screened Interval (ft BGS): Collection Date: Units:	Federal SDWA MCLs ^a (μg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-01 AF0122 2.5 – 12.5 26-Sep-99 (µg/L)	AF-02 AF0222 2.0 – 12.0 26-Sep-99 (µg/L)	AF-03 AF0322 2.0 – 12.0 26-Sep-99 (µg/L)	AF-04 AF0422 2.0 – 12.0 26-Sep-99 (µg/L)	AF-05 AF0522 2.0 – 12.0 26-Sep-99 (µg/L)
VOLATILE ORGANIC COMP							
1,1,1-Trichloroethane	200	_	2 U	2 U	2 U	2 U	2 U
1,1,2,2-Tetrachloroethane	_	10.8	2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	5	41.99	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethane	_	_	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	7	3.2	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethane	5	98.6	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethene		_	2 U	2 U	2 U	2 U	2 U
1,2-Dichloropropane	_	_	2 U	2 U	2 U	2 U	2 U
1,3-cis-Dichloropropene	_	1,700	2 U	2 U	2 U	2 U	2 U
1,3-trans-Dichloropropene	_	1,700	2 U	2 U	2 U	2 U	2 U
2-Butanone	_	_	5 R	5 R	5 U	5 U	5 U
2-Hexanone		_	5 U	5 UJ	5 U	5 U	5 U
4-Methyl-2-Pentanone		_	5 U	5 U	5 U	5 U	5 U
Acetone		_	5 U	11.1 J	5 U	8.9 U	10.6 U
Benzene	5	71.28	2 U	8.4 =	2.2 =	2 U	11.8 =
Bromodichloromethane	_	_	5 U	5 U	5 U	5 U	5 U
Bromoform		360	2 U	2 U	2 U	2 U	2 U
Bromomethane		_	2 U	2 U	2 U	2 U	2 U
Carbon Disulfide		_	5 U	5 U	5 UJ	5 UJ	5 U
Carbon Tetrachloride	5	4.42	2 U	2 U	2 U	2 U	2 U
Chlorobenzene	100	21,000	2 U	2 U	2 U	2 U	2 U
Chloroethane	_	_	2 U	2 U	2 U	2 U	2 U
Chloroform	_	470.8	2 U	2 U	2 U	2 U	2 U
Chloromethane			2 U	2 U	2 U	2 U	2 U
Dibromochloromethane		22	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	700	28,718	2 U	2 U	1.6 J	2 U	9.5 =
Methylene Chloride		_	1.2 J	0.54 J	2 U	2 U	2 U
Styrene	100	_	2 U	2 U	2 U	2 U	2 U
Tetrachloroethene	5	8.85	2 U	2 U	2 U	2 U	2 U
Toluene	1,000	200,000	2 U	0.65 J	2 U	2 U	3 =
Trichloroethene	5	80.7	2 U	2 U	2 U	2 U	2 U
Vinyl Chloride	2	525	2 U	2 U	2 U	2 U	2 U
Xylenes, Total	10,000	—	6 U	6 U	0.96 J	6 U	46.5 =

^a U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

J Indicates the value for the compound is an estimated value.

= Indicates the compound was detected at the concentration reported.

R Indicates the result was rejected during the data validation process.

Table VIII-A. Summary of September 1999 Groundwater Analytical Results (continued)

Station: Sample ID: Screened Interval (ft BGS): Collection Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-07 AF0722 2.5 – 12.5 26-Sep-99 (µg/L)	AF-08 AF0822 2.5 – 12.5 26-Sep-99 (μg/L)	AF-09 AF0922 2.0 – 12.0 26-Sep-99 (µg/L)	AF-11 AF1122 1.0 – 11.0 26-Sep-99 (µg/L)	AF-12 AF1222 2.5 – 12.5 26-Sep-99 (μg/L)
VOLATILE ORGANIC COM							
1,1,1-Trichloroethane	200	_	10 U	2 U	2 U	2 U	4 U
1,1,2,2-Tetrachloroethane	_	10.8	10 U	2 U	2 U	2 U	4 U
1,1,2-Trichloroethane	5	41.99	10 U	2 U	2 U	2 U	4 U
1,1-Dichloroethane	_	_	10 U	2 U	2 U	2 U	4 U
1,1-Dichloroethene	7	3.2	10 U	2 U	2 U	2 U	4 U
1,2-Dichloroethane	5	98.6	10 U	2 U	2 U	2 U	4 U
1,2-Dichloroethene	_		10 U	2 U	3.9 =	2 U	4 U
1,2-Dichloropropane	_		10 U	2 U	2 U	2 U	4 U
1,3-cis-Dichloropropene	_	1,700	10 U	2 U	2 U	2 U	4 U
1,3-trans-Dichloropropene	_	1,700	10 U	2 U	2 U	2 U	4 U
2-Butanone	_	_	25 U	5 U	5 R	5 R	10 R
2-Hexanone	_	_	40.2 =	5 U	5 U	5 U	10 UJ
4-Methyl-2-Pentanone	_	_	25 U	5 U	5 U	5 U	10 U
Acetone	_	_	25 U	5 U	5 R	5 U	10 R
Benzene	5	71.28	9,130 =	2 U	11.8 =	2 U	23.4 =
Bromodichloromethane	_	_	25 U	5 U	5 U	5 U	10 U
Bromoform	_	360	10 U	2 U	2 U	2 U	4 U
Bromomethane		_	10 U	2 U	2 U	2 U	4 U
Carbon Disulfide	_		25 UJ	1.1 J	5 U	5 U	10 U
Carbon Tetrachloride	5	4.42	10 U	2 U	2 U	2 U	4 U
Chlorobenzene	100	21,000	10 U	2 U	2 U	2 U	4 U
Chloroethane	_	_	10 U	2 U	2 U	2 U	4 U
Chloroform	_	470.8	10 U	2 U	2 U	2 U	4 U
Chloromethane	_	_	10 U	2 U	2 U	2 U	4 U
Dibromochloromethane	_	22	10 U	2 U	2 U	2 U	4 U
Ethylbenzene	700	28,718	493 =	2 U	27.7 =	2 U	54.8 =
Methylene Chloride		_	13.1 U	2 U	3.9 U	2 U	2 J
Styrene	100	_	10 U	2 U	2 U	2 U	4 U
Tetrachloroethene	5	8.85	10 U	2 U	2 U	2 U	4 U
Toluene	1,000	200,000	24.8 =	2 U	2 U	2 U	4 U
Trichloroethene	5	80.7	10 U	2 U	2 U	2 U	4 U
Vinyl Chloride	2	525	10 U	2 U	2 U	2 U	4 U
Xylenes, Total	10,000	_	246 =	6 U	1.4 J	6 U	8.5 J

^a U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

J Indicates the value for the compound is an estimated value.

= Indicates the compound was detected at the concentration reported.

R Indicates the result was rejected during the data validation process.

Table VIII-A. Summary of September 1999 Groundwater Analytical Results (continued)

Station:		In-Stream	AF-13	AF-14	AF-15	AF-16	AF-17
Sample ID:	Federal	Water	AF1322	AF1422	AF1522	AF1622	AF1722
Screened Interval (ft BGS):	SDWA MCLs ^a	Quality Standards ^b	2.5 – 12.5	1.4 – 11.4	1.5 – 11.5	1.5 – 11.5	2.5 – 12.5
Collection Date:			26-Sep-99	26-Sep-99	26-Sep-99	26-Sep-99	26-Sep-99
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP							
1,1,1-Trichloroethane	200	_	2 U	2 U	2 U	2 U	2 U
1,1,2,2-Tetrachloroethane	_	10.8	2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	5	41.99	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethane	_	_	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	7	3.2	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethane	5	98.6	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethene	_	_	1.5 J	2 U	2 U	2 U	19.9 =
1,2-Dichloropropane	_	_	2 U	2 U	2 U	2 U	2 U
1,3-cis-Dichloropropene		1,700	2 U	2 U	2 U	2 U	2 U
1,3-trans-Dichloropropene	—	1,700	2 U	2 U	2 U	2 U	2 U
2-Butanone	_	_	5 U	5 U	5 R	5 U	5 U
2-Hexanone	_	_	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U	5 U	5 U
Acetone		_	5 U	7.8 U	5 R	5.2 U	5 U
Benzene	5	71.28	2 U	2 U	2 U	2 U	14 =
Bromodichloromethane		_	5 U	5 U	5 U	5 U	5 U
Bromoform		360	2 U	2 U	2 U	2 U	2 U
Bromomethane		_	2 U	2 U	2 U	2 U	2 U
Carbon Disulfide		_	5 U	2 J	5 U	5 UJ	5 UJ
Carbon Tetrachloride	5	4.42	2 U	2 U	2 U	2 U	2 U
Chlorobenzene	100	21,000	2 U	2 U	2 U	2 U	2 U
Chloroethane	_	_	2 U	2 U	2 U	2 U	2 U
Chloroform		470.8	2 U	2 U	2 U	2 U	2 U
Chloromethane	_		2 U	2 U	2 U	2 U	2 U
Dibromochloromethane	_	22	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	700	28,718	2 U	2 U	2 U	2 U	2 U
Methylene Chloride		_	2 U	2 U	2 U	2 U	2 U
Styrene	100	_	2 U	2 U	2 U	2 U	2 U
Tetrachloroethene	5	8.85	2 U	2 U	2 U	2 U	2 U
Toluene	1,000	200,000	2 U	2 U	2 U	2 U	2 U
Trichloroethene	5	80.7	2 U	2 U	2 U	2 U	112 =
Vinyl Chloride	2	525	2 U	2 U	2 U	2 U	2 U
Xylenes, Total	10,000	_	6 U	6 U	6 U	6 U	6 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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Table VIII-A. Summary of September 1999 Groundwater Analytical Results (continued)

Station:	Federal	In-Stream Water	AF-18 AF1822	AF-19 AF1922	AF-20 AF2022	AF-23 AF2322	AF-24 AF2422
Sample ID: Screened Interval (ft BGS):	SDWA	Quality	1.5 – 11.5	1.5 – 11.5	3.0 - 13.0	3.0 - 13.0	2.0 – 12.0
Collection Date:	\mathbf{MCLs}^a	Standards ^b	26-Sep-99	26-Sep-99	26-Sep-99	26-Sep-99	26-Sep-99
Units:	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	20-Scp->> (μg/L)	(μg/L)
VOLATILE ORGANIC COMP		(μg/L)	(μg/L)	(µg/L)	(μg/L)	(μg/L)	(μg/L)
1,1,1-Trichloroethane	200		2 U	2 U	2 U	2 U	2 U
1,1,2,2-Tetrachloroethane	200	10.8	2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	5	41.99	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethane	3	41.99	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	7	3.2	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethane	5	98.6	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethene	3	76.0	13.2 =	8.3 =	1.7 J	5.3 =	2 U
1,2-Dichloropropane			2 U	2 U	2 U	2 U	2 U
1,3-cis-Dichloropropene		1,700	2 U	2 U	2 U	2 U	2 U
1,3- <i>trans</i> -Dichloropropene	_	1,700	2 U	2 U	2 U	2 U	2 U
2-Butanone	_	1,700	5 R	5 R	5 R	5.9 J	5 U
2-Hexanone		_	5 U	5 U	5 U	5.5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U	5 U	5 U
Acetone	_	_	5 R	5 R	5 R	5 U	5 U
Benzene	5	71.28	10.3 =	3.5 =	2.1 =	1.1 J	2 U
Bromodichloromethane	3	/1.20	5 U	5.5 – 5 U	5 U	5 U	5 U
Bromoform		360	2 U	2 U	2 U	2 U	2 U
Bromomethane			2 U	2 U	2 U	2 U	2 U
Carbon Disulfide		_	5 U	5 U	5 U	5 U	5 UJ
Carbon Tetrachloride	5	4.42	2 U	2 U	2 U	2 U	2 U
Chlorobenzene	100	21,000	2 U	2 U	2 U	2 U	2 U
Chloroethane			2 U	2 U	2 U	2 U	2 U
Chloroform	_	470.8	2 U	2 U	2 U	2 U	2 U
Chloromethane	_		2 U	2 U	2 U	2 U	2 U
Dibromochloromethane	_	22	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	700	28,718	2 U	2 U	2 U	2 U	2 U
Methylene Chloride			4.2 U	2.3 U	4.5 U	2 U	2 U
Styrene	100		2 U	2 U	2 U	2 U	2 U
Tetrachloroethene	5	8.85	2 U	2 U	2 U	2 U	2 U
Toluene	1,000	200,000	2 U	2 U	2 U	2 U	2 U
Trichloroethene	5	80.7	1.6 J	2.6 =	2 U	1.6 J	2 U
Vinyl Chloride	2	525	2 U	2 U	2 U	2 U	2 U
Xylenes, Total	10,000	_	6 U	6 U	6 U	6 U	6 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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Table VIII-A. Summary of September 1999 Groundwater Analytical Results (continued)

Station:	E.dl	In-Stream	AF-25	AF-26	AF-27	AF-28	AF-29
Sample ID:	Federal SDWA	Water Quality	AF2522 0.5 – 10.5	AF2622 2.0 – 12.0	AF2722 1.0 – 11.0	AF2822 2.0 – 12.0	AF2922 2.0 – 12.0
Screened Interval (ft BGS): Collection Date:	MCLs ^a	Standards ^b	0.5 – 10.5 26-Sep-99	2.0 – 12.0 26-Sep-99	26-Sep-99	2.0 – 12.0 26-Sep-99	2.0 – 12.0 26-Sep-99
Units:			•				•
	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP			0.11	4 77	20 11	0.11	2 11
1,1,1-Trichloroethane	200		2 U	4 U	20 U	2 U	2 U
1,1,2,2-Tetrachloroethane	_	10.8	2 U	4 U	20 U	2 U	2 U
1,1,2-Trichloroethane	5	41.99	2 U	4 U	20 U	2 U	2 U
1,1-Dichloroethane	_		2 U	4 U	20 U	2 U	2 U
1,1-Dichloroethene	7	3.2	0.66 J	4 U	20 U	0.67 J	2 U
1,2-Dichloroethane	5	98.6	2 U	4 U	20 U	2 U	2 U
1,2-Dichloroethene	_	_	40.2 =	27.9 =	49.3 =	41.9 =	9.5 =
1,2-Dichloropropane	_		2 U	4 U	20 U	2 U	2 U
1,3-cis-Dichloropropene		1,700	2 U	4 U	20 U	2 U	2 U
1,3-trans-Dichloropropene	—	1,700	2 U	4 U	20 U	2 U	2 U
2-Butanone	_	_	5 U	10 R	50 R	5 U	5 R
2-Hexanone	—	—	5 U	10 U	50 U	5 U	5 U
4-Methyl-2-Pentanone	—	—	5 U	10 U	50 U	5 U	5 U
Acetone	_		5 U	10 U	50 U	5 U	5 U
Benzene	5	71.28	4.8 =	16.6 =	5.1 J	3.9 =	53.6 =
Bromodichloromethane	_		5 U	10 U	50 U	5 U	5 U
Bromoform	_	360	2 U	4 U	20 U	2 U	2 U
Bromomethane	_	_	2 U	4 U	20 U	2 U	2 U
Carbon Disulfide		_	5 U	10 U	50 U	5 UJ	5 U
Carbon Tetrachloride	5	4.42	2 U	4 U	20 U	2 U	2 U
Chlorobenzene	100	21,000	2 U	4 U	20 U	2 U	2 U
Chloroethane	_	_	2 U	4 U	20 U	2 U	2 U
Chloroform		470.8	2 U	4 U	20 U	2 U	2 U
Chloromethane	_		2 U	4 U	20 U	2 U	2 U
Dibromochloromethane	_	22	2 U	4 U	20 U	2 U	2 U
Ethylbenzene	700	28,718	0.59 J	4 U	20 U	2 U	2 U
Methylene Chloride		_	2 U	1.5 J	12.8 J	2 U	1.2 J
Styrene	100	_	2 U	4 U	20 U	2 U	2 U
Tetrachloroethene	5	8.85	2 U	4 U	20 U	2 U	2 U
Toluene	1,000	200,000	2 U	4 U	20 U	2 U	2 U
Trichloroethene	5	80.7	243 =	116 =	596 =	60.9 =	11 =
Vinyl Chloride	2	525	0.6 J	4 U	20 U	2 U	1.8 J
Xylenes, Total	10,000	_	6 U	12 U	60 U	6 U	6 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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Table VIII-A. Summary of September 1999 Groundwater Analytical Results (continued)

Station:	·	In-Stream	AF-30	AF-30	AF-30	AF-30	AF-30
Sample ID:	Federal	Water	AF3012	AF3022	AF3032	AF3042	AF3052
Screened Interval (ft BGS):	SDWA MCLs ^a	Quality Standards ^b	11.0 – 15.0	16.0 - 20.0	21.0 - 25.0	26.0 - 30.0	31.0 – 35.0
Collection Date:			26-Sep-99	26-Sep-99	26-Sep-99	26-Sep-99	26-Sep-99
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP							
1,1,1-Trichloroethane	200	_	2 U	2 U	2 U	2 U	2 U
1,1,2,2-Tetrachloroethane	_	10.8	2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	5	41.99	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethane	_	_	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	7	3.2	2 U	2 U	0.74 J	2.2 =	0.62 J
1,2-Dichloroethane	5	98.6	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethene	_	_	3.3 =	24 =	33 =	90.3 =	24.3 =
1,2-Dichloropropane	_	_	2 U	2 U	2 U	2 U	2 U
1,3-cis-Dichloropropene		1,700	2 U	2 U	2 U	2 U	2 U
1,3-trans-Dichloropropene		1,700	2 U	2 U	2 U	2 U	2 U
2-Butanone	_		5 U	5 U	5 R	5 U	5 R
2-Hexanone	_	_	14.2 =	15.5 =	5 UJ	5 U	5 U
4-Methyl-2-Pentanone			5 U	5 U	5 U	5 U	5 U
Acetone		_	8.4 U	10.8 U	5 R	5 U	5 R
Benzene	5	71.28	7,670 J	2,290 =	37.9 =	16.2 =	11 =
Bromodichloromethane		_	5 U	5 U	5 U	5 U	5 U
Bromoform		360	2 U	2 U	2 U	2 U	2 U
Bromomethane		_	2 U	2 U	2 U	2 U	2 U
Carbon Disulfide	_		5 U	5 UJ	5 U	1.1 J	5 U
Carbon Tetrachloride	5	4.42	2 U	2 U	2 U	2 U	2 U
Chlorobenzene	100	21,000	2 U	2 U	2 U	2 U	2 U
Chloroethane			2 U	2 U	2 U	2 U	2 U
Chloroform		470.8	2 U	2 U	2 U	2 U	2 U
Chloromethane	_		2 U	2 U	2 U	2 U	2 U
Dibromochloromethane		22	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	700	28,718	500 J	168 =	2.7 =	1.3 J	0.53 J
Methylene Chloride		_	2.2 =	2 U	0.95 J	2 U	4 U
Styrene	100	_	0.52 J	2 U	2 U	2 U	2 U
Tetrachloroethene	5	8.85	2 U	2 U	2 U	2 U	2 U
Toluene	1,000	200,000	19 =	5.5 =	0.55 J	2 U	2 U
Trichloroethene	5	80.7	1.7 J	21.3 =	75.9 =	262 =	116 =
Vinyl Chloride	2	525	2 U	0.88 J	2 U	2 U	2 U
Xylenes, Total	10,000	_	72.7 =	9.6 =	1.8 J	6 U	0.51 J

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
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- MCL Maximum contaminant level.
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Table VIII-A. Summary of September 1999 Groundwater Analytical Results (continued)

Station:	F 1 1	In-Stream	AF-30	AF-30	AF-30	AF-31	AF-31
Sample ID:	Federal	Water	AF3062	AF3072	AF3082	AF3112	AF3122
Screened Interval (ft BGS):	SDWA	Quality Standards ^b	36.0 – 40.0	41.0 – 45.0	46.0 – 50.0	6.0 - 10.0	11.0 – 15.0
Collection Date:	MCLs ^a		26-Sep-99	26-Sep-99	26-Sep-99	25-Sep-99	25-Sep-99
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP							
1,1,1-Trichloroethane	200	_	2 U	2 U	2 U	10 U	2 U
1,1,2,2-Tetrachloroethane	_	10.8	2 U	2 U	2 U	10 U	2 U
1,1,2-Trichloroethane	5	41.99	2 U	2 U	2 U	10 U	2 U
1,1-Dichloroethane	_	_	2 U	2 U	2 U	10 U	2 U
1,1-Dichloroethene	7	3.2	2 U	2 U	2 U	10 U	2 U
1,2-Dichloroethane	5	98.6	2 U	2 U	2 U	10 U	2 U
1,2-Dichloroethene	_	_	11.3 =	8.7 =	2 U	17.9 =	10.7 =
1,2-Dichloropropane	_	_	2 U	2 U	2 U	10 U	2 U
1,3-cis-Dichloropropene		1,700	2 U	2 U	2 U	10 U	2 U
1,3-trans-Dichloropropene	—	1,700	2 U	2 U	2 U	10 U	2 U
2-Butanone	_		5 R	5 R	5 R	25 R	5 R
2-Hexanone	_	_	5 U	5 U	5 U	25 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U	25 U	5 U
Acetone		_	5 U	5 R	5 R	25 R	5 U
Benzene	5	71.28	6.4 =	5.5 =	6.8 =	11.1 =	0.99 J
Bromodichloromethane		_	5 U	5 U	5 U	25 U	5 U
Bromoform		360	2 U	2 U	2 U	10 U	2 U
Bromomethane		_	2 U	2 U	2 U	10 U	2 U
Carbon Disulfide	_		5 U	5 U	1.3 J	25 U	5 U
Carbon Tetrachloride	5	4.42	2 U	2 U	2 U	10 U	2 U
Chlorobenzene	100	21,000	2 U	2 U	2 U	10 U	2 U
Chloroethane		_	2 U	2 U	2 U	10 U	2 U
Chloroform	_	470.8	2 U	2 U	2 U	10 U	2 U
Chloromethane	_	_	2 U	2 U	2 U	10 U	2 U
Dibromochloromethane	_	22	2 U	2 U	2 U	10 U	2 U
Ethylbenzene	700	28,718	0.67 J	5.5 =	1.8 J	10 U	2 U
Methylene Chloride		_	3.4 U	2 U	2.9 U	14.4 U	2.4 U
Styrene	100	_	2 U	2 U	2 U	10 U	2 U
Tetrachloroethene	5	8.85	2 U	2 U	2 U	10 U	2 U
Toluene	1,000	200,000	2 U	0.78 J	0.5 J	10 U	2 U
Trichloroethene	5	80.7	66.5 =	66.2 =	0.91 J	168 =	110 =
Vinyl Chloride	2	525	2 U	2 U	2 U	10 U	2 U
Xylenes, Total	10,000	_	0.67 J	9.3 =	2.9 J	30 U	6 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
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Table VIII-A. Summary of September 1999 Groundwater Analytical Results (continued)

Station:		In-Stream	AF-31	AF-31	AF-31	AF-31	AF-31
Sample ID:	Federal	Water	AF3132	AF3142	AF3152	AF3162	AF3172
Screened Interval (ft BGS):	SDWA	Quality	16.0 – 20.0	21.0 – 25.0	26.0 – 30.0	31.0 – 35.0	36.0 – 40.0
Collection Date:	\mathbf{MCLs}^a	Standards ^b	25-Sep-99	25-Sep-99	25-Sep-99	25-Sep-99	25-Sep-99
Units:	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(μg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP							
1,1,1-Trichloroethane	200		2 U	2 U	2 U	2 U	2 U
1,1,2,2-Tetrachloroethane	_	10.8	2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	5	41.99	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethane	_		2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	7	3.2	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethane	5	98.6	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethene	_		2 U	16.4 =	2 U	2 U	2 U
1,2-Dichloropropane	_	_	2 U	2 U	2 U	2 U	2 U
1,3-cis-Dichloropropene		1,700	2 U	2 U	2 U	2 U	2 U
1,3-trans-Dichloropropene		1,700	2 U	2 U	2 U	2 U	2 U
2-Butanone		_	5 R	5 R	5 R	1.9 J	1.3 J
2-Hexanone	_	_	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U	5 U	5 U
Acetone		_	5 R	5 R	5 U	5 U	5 U
Benzene	5	71.28	2 U	2 U	2 U	2 U	2 U
Bromodichloromethane	_	_	5 U	5 U	5 U	5 U	5 U
Bromoform	_	360	2 U	2 U	2 U	2 U	2 U
Bromomethane	_		2 U	2 U	2 U	2 U	2 U
Carbon Disulfide		_	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	2 U	2 U	2 U	2 U	2 U
Chlorobenzene	100	21,000	2 U	2 U	2 U	2 U	2 U
Chloroethane	_	_	2 U	2 U	2 U	2 U	2 U
Chloroform	_	470.8	2 U	2 U	2 U	2 U	2 U
Chloromethane	_		0.68 J	2 U	0.73 J	2 U	2 U
Dibromochloromethane		22	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	700	28,718	2 U	2 U	2 U	2 U	2 U
Methylene Chloride	_	<u></u>	2.3 U	3 =	2 U	2 U	2.6 U
Styrene	100	_	2 U	2 U	2 U	2 U	2 U
Tetrachloroethene	5	8.85	2 U	2 U	2 U	2 U	2 U
Toluene	1,000	200,000	2 U	2 U	2 U	2 U	2 U
Trichloroethene	5	80.7	2.6 =	43.7 =	1.3 J	1 J	0.76 J
Vinyl Chloride	2	525	2 U	2 U	2 U	2 U	2 U
Xylenes, Total	10,000	_	6 U	6 U	6 U	6 U	6 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
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Table VIII-A. Summary of September 1999 Groundwater Analytical Results (continued)

Station:	E.dl	In-Stream	AF-31	AF-31	AF-32	AF-32	AF-32
Sample ID:	Federal SDWA	Water	AF3182 41.0 – 45.0	AF3192 46.0 – 50.0	AF3212 11.0 – 15.0	AF3222 16.0 – 20.0	AF3232 21.0 – 25.0
Screened Interval (ft BGS): Collection Date:	MCLs ^a	Quality Standards ^b	41.0 – 45.0 25-Sep-99	46.0 – 50.0 25-Sep-99	25-Sep-99	16.0 – 20.0 25-Sep-99	21.0 – 25.0 25-Sep-99
Units:		Standards (μg/L)	_			•	25-Sep-99 (μg/L)
	(μg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP							
1,1,1-Trichloroethane	200	_	2 U	2 U	2 U	2 U	2 U
1,1,2,2-Tetrachloroethane	_	10.8	2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	5	41.99	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethane	—	_	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	7	3.2	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethane	5	98.6	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethene	_	_	2 U	2 U	6.4 =	2 U	2 U
1,2-Dichloropropane			2 U	2 U	2 U	2 U	2 U
1,3-cis-Dichloropropene	_	1,700	2 U	2 U	2 U	2 U	2 U
1,3-trans-Dichloropropene	_	1,700	2 U	2 U	2 U	2 U	2 U
2-Butanone		_	5 R	5 R	5 R	0.93 J	5 R
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U	5 U	5 U
Acetone	_	_	5 U	5 R	5 R	5 U	5 R
Benzene	5	71.28	2 U	2 U	2.1 =	2 U	2 U
Bromodichloromethane	_	_	5 U	5 U	5 U	5 U	5 U
Bromoform	_	360	2 U	2 U	2 U	2 U	2 U
Bromomethane	_	_	2 U	2 U	2 U	2 U	2 U
Carbon Disulfide	_	_	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	2 U	2 U	2 U	2 U	2 U
Chlorobenzene	100	21,000	2 U	2 U	2 U	2 U	2 U
Chloroethane	_	_	2 U	2 U	2 U	2 U	2 U
Chloroform	_	470.8	2 U	2 U	2 U	2 U	2 U
Chloromethane	_	_	2 U	2 U	2 U	2 U	2 U
Dibromochloromethane	_	22	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	700	28,718	2 U	2 U	2 U	2 U	2 U
Methylene Chloride	_		2 U	2.9 U	3.4 U	2.1 U	2.9 =
Styrene	100	_	2 U	2 U	2 U	2 U	2 U
Tetrachloroethene	5	8.85	2 U	2 U	2 U	2 U	2 U
Toluene	1,000	200,000	2 U	2 U	2 U	0.52 J	2 U
Trichloroethene	5	80.7	2 U	0.56 J	26.3 =	2 U	2 U
Vinyl Chloride	2	525	2 U	2 U	2 U	2 U	2 U
Xylenes, Total	10,000	_	6 U	6 U	6 U	6 U	6 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- ^b Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

- U Indicates the compound was not detected at the concentration reported.
- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
- J Indicates the value for the compound is an estimated value.
- = Indicates the compound was detected at the concentration reported.
- R Indicates the result was rejected during the data validation process.

Table VIII-A. Summary of September 1999 Groundwater Analytical Results (continued)

Station: Sample ID: Screened Interval (ft BGS): Collection Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-32 AF3242 26.0 – 30.0 25-Sep-99 (µg/L)	AF-32 AF3252 31.0 – 35.0 25-Sep-99 (µg/L)		AF-32 AF3272 41.0 – 45.0 25-Sep-99 (µg/L)	AF-32 AF3282 46.0 – 50.0 25-Sep-99 (µg/L)	AF-33 AF3312 2.3 – 11.8 25-Sep-99 (μg/L)
VOLATILE ORGANIC COMP								
1,1,1-Trichloroethane	200	_	2 U	2 U	2 U	2 U	2 U	2 U
1,1,2,2-Tetrachloroethane	_	10.8	2 U	2 U	2 U	2 U	2 U	2 U
1,1,2-Trichloroethane	5	41.99	2 U	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethane	_	_	2 U	2 U	2 U	2 U	2 U	2 U
1,1-Dichloroethene	7	3.2	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethane	5	98.6	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichloroethene	_	_	2 U	2 U	2 U	2 U	2 U	6.4 =
1,2-Dichloropropane	_	_	2 U	2 U	2 U	2 U	2 U	2 U
1,3-cis-Dichloropropene	_	1,700	2 U	2 U	2 U	2 U	2 U	2 U
1,3-trans-Dichloropropene		1,700	2 U	2 U	2 U	2 U	2 U	2 U
2-Butanone			5 R	5 R	5 R	5 R	5 R	5 R
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	_		5 R	5 R	5 R	5 U	5 R	5 R
Benzene	5	71.28	2 U	2 U	2 U	2 U	2 U	2 U
Bromodichloromethane			5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	_	360	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	_		2 U	2 U	2 U	2 U	2 U	2 U
Carbon Disulfide	_		5 U	5 U	0.56 J	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	2 U	2 U	2 U	2 U	2 U	2 U
Chlorobenzene	100	21,000	2 U	2 U	2 U	2 U	2 U	2 U
Chloroethane			2 U	2 U	2 U	2 U	2 U	2 U
Chloroform	_	470.8	2 U	2 U	2 U	2 U	2 U	2 U
Chloromethane	_		2 U	2 U	2 U	2 U	2 U	2 U
Dibromochloromethane	_	22	2 U	2 U	2 U	2 U	2 U	2 U
Ethylbenzene	700	28,718	2 U	2 U	2 U	2 U	2 U	2 U
Methylene Chloride	_		2.8 U	2.6 U	5.4 U	2.7 U	3 U	2.1 =
Styrene	100		2 U	2 U	2 U	2 U	2 U	2 U
Tetrachloroethene	5	8.85	2 U	2 U	2 U	2 U	2 U	2 U
Toluene	1,000	200,000	2 U	2 U	2 U	2 U	2 U	2 U
Trichloroethene	5	80.7	2 U	2 U	2 U	2 U	2 U	45.8 =
Vinyl Chloride	2	525	2 U	2 U	2 U	2 U	2 U	2 U
Xylenes, Total	10,000		6 U	6 U	6 U	6 U	6 U	6 U

^a U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

J Indicates the value for the compound is an estimated value.

= Indicates the compound was detected at the concentration reported.

R Indicates the result was rejected during the data validation process.

Table VIII-A. Summary of September 1999 Groundwater Analytical Results (continued)

Screened Interval (ft BGS): SDWA Quality	AF3412 1.4 – 10.9 25-Sep-99 (μg/L) 2 U 2 U 2 U 3.4 = 4.8 = 2 U 10.8 = 2 U	AF3512 1.2 – 10.7 25-Sep-99 (μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 8.8 =	AF3612 1.4 – 10.9 25-Sep-99 (μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2	AF3712 4.4 – 14.3 25-Sep-99 (μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2	AF3812 4.1 – 14.1 25-Sep-99 (μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U	AF3912 4.4 – 14.3 25-Sep-99 (μg/L) 2 R 2 U 2 U 2 U 2 U 2 U 2 U
	2 U 2 U 2 U 2 U 3.4 = 4.8 = 2 U 10.8 = 2 U	25-Sep-99 (μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 8.8 =	25-Sep-99 (μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2	25-Sep-99 (μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 0.6 J	25-Sep-99 (μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2	25-Sep-99 (μg/L) 2 R 2 U 2 U 2 U 2 U
Units:(μg/L)(μg/L)VOLATILE ORGANIC COMPOUNDS1,1,1-Trichloroethane200NRC1,1,2,2-Tetrachloroethane10.81,1,2-Trichloroethane541.991,1-DichloroethaneNRC1,1-Dichloroethene73.2	2 U 2 U 2 U 3.4 = 4.8 = 2 U 10.8 = 2 U	(μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 8.8 =	(μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2	(μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 0.6 J	(μg/L) 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U	(μg/L) 2 R 2 U 2 U 2 U 2 U
VOLATILE ORGANIC COMPOUNDS1,1,1-Trichloroethane200NRC1,1,2,2-Tetrachloroethane10.81,1,2-Trichloroethane541.991,1-DichloroethaneNRC1,1-Dichloroethene73.2	2 U 2 U 2 U 3.4 = 4.8 = 2 U 10.8 = 2 U	2 U 2 U 2 U 2 U 2 U 2 U 2 U 8.8 =	2 U 2 U 2 U 2 U 2 U 2 U 2 U 2 U	2 U 2 U 2 U 2 U 2 U 0.6 J	2 U 2 U 2 U 2 U 2 U 2 U	2 R 2 U 2 U 2 U
1,1,1-Trichloroethane200NRC1,1,2,2-Tetrachloroethane10.81,1,2-Trichloroethane541.991,1-DichloroethaneNRC1,1-Dichloroethene73.2	2 U 2 U 3.4 = 4.8 = 2 U 10.8 = 2 U	2 U 2 U 2 U 2 U 2 U 2 U 8.8 =	2 U 2 U 2 U 2 U 2 U 2 U	2 U 2 U 2 U 0.6 J	2 U 2 U 2 U 2 U	2 U 2 U 2 U
1,1,2,2-Tetrachloroethane 10.8 1,1,2-Trichloroethane 5 41.99 1,1-Dichloroethane NRC 1,1-Dichloroethene 7 3.2	2 U 2 U 3.4 = 4.8 = 2 U 10.8 = 2 U	2 U 2 U 2 U 2 U 2 U 2 U 8.8 =	2 U 2 U 2 U 2 U 2 U 2 U	2 U 2 U 2 U 0.6 J	2 U 2 U 2 U 2 U	2 U 2 U 2 U
1,1,2-Trichloroethane 5 41.99 1,1-Dichloroethane NRC 1,1-Dichloroethene 7 3.2	2 U 3.4 = 4.8 = 2 U 10.8 = 2 U	2 U 2 U 2 U 2 U 2 U 8.8 =	2 U 2 U 2 U 2 U	2 U 2 U 0.6 J	2 U 2 U 2 U	2 U 2 U
1,1-Dichloroethane NRC 1,1-Dichloroethene 7 3.2	3.4 = 4.8 = 2 U 10.8 = 2 U	2 U 2 U 2 U 8.8 =	2 U 2 U 2 U	2 U 0.6 J	2 U 2 U	2 U
1,1-Dichloroethene 7 3.2	4.8 = 2 U 10.8 = 2 U	2 U 2 U 8.8 =	2 U 2 U	0.6 J	2 U	
'	2 U 10.8 = 2 U	2 U 8.8 =	2 U			2 11
1 2-Dichloroethane 5 98.6	10.8 = 2 U	8.8 =		2 U		2 U
1,2 Diemoroculane	2 U		4 - 4		2 U	2 U
1,2-Dichloroethene NRC	_		17.3 =	26.4 =	3.8 =	4.3 =
1,2-Dichloropropane NRC		2 U	2 U	2 U	2 U	2 U
1,3-cis-Dichloropropene 1,700	2 U	2 U	2 U	2 U	2 U	2 U
1,3-trans-Dichloropropene 1,700	2 U	2 U	2 U	2 U	2 U	2 U
2-Butanone NRC	5 R	5 R	5 R	5 R	5 R	5 U
2-Hexanone NRC	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone NRC	5 U	5 U	5 U	5 U	5 U	5 U
Acetone NRC	5 R	5 U	5 R	5 U	5 U	5 U
Benzene 5 71.28	2 U	2.1 =	2.4 =	4.2 =	2 =	0.92 J
Bromodichloromethane NRC	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform 360	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane NRC	2 U	2 U	2 U	2 U	2 U	2 U
Carbon Disulfide NRC	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride 5 4.42	2 U	2 U	2 U	2 U	2 U	2 U
Chlorobenzene 100 21,000	2 U	2 U	2 U	2 U	2 U	2 U
Chloroethane NRC	2 U	2 U	2 U	2 U	2 U	2 U
Chloroform 470.8	2 U	2 U	2 U	2 U	2 U	2 U
Chloromethane NRC	2 U	2 U	2 U	2 U	2 U	2 U
Dibromochloromethane 22	2 U	2 U	2 U	2 U	2 U	2 U
Ethylbenzene 700 28,718	2 U	2 U	2 U	0.63 J	1.6 J	2 U
Methylene Chloride NRC	3.6 =	2.4 U	2.6 =	2.7 U	2 U	2.4 U
Styrene 100 NRC	2 U	2 U	2 U	2 U	2 U	2 U
Tetrachloroethene 5 8.85	2 U	2 U	2 U	2 U	2 U	2 U
Toluene 1,000 200,000	2 U	2 U	2 U	0.69 J	2 =	2 U
Trichloroethene 5 80.7	95.5 =	23 =	38 =	346 =	6.8 =	2 U
Vinyl Chloride 2 525	2 U	2 U	2 U	2 U	2 U	2 U
Xylenes, Total 10,000 NRC	6 U	6 U	6 U	3.4 J	9.4 =	6 U

U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

NRC No regulatory criterion.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

J Indicates the value for the compound is an estimated value.

= Indicates the compound was detected at the concentration reported.

R Indicates the result was rejected during the data validation process.

Laboratory analytical data sheets for the groundwater samples collected in September 1999 during the Corrective Action Plan (CAP)–Part B investigation were provided in the CAP–Part B report dated February 2000.

ADDITIONAL DEEP WELL INSTALLATION AND SAMPLING JANUARY/FEBRUARY 2000

Table VIII-B. Summary of February 2000 Groundwater Analytical Results

Well ID:		In-Stream	AF-40	AF-41	AF-42
Sample ID	Federal	Water	AF4012	AF4112	AF4212
Screened Interval (ft BGS):	SDWA	Quality	28.5 - 33.0	28.5 - 33.0	28.5 - 33.0
Sample Date:	\mathbf{MCLs}^a	$Standards^b$	02-Feb-00	02-Feb-00	02-Feb-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMPOUNDS					
1,1,1-Trichloroethane	200		1 U	1 U	1 U
1,1,2,2-Tetrachloroethane		10.8	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U
1,1-Dichloroethane			1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	0.94 J	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U
1,2-Dichloroethene			15.4 =	35.6 =	2 U
1,2-Dichloropropane			1 U	1 U	1 U
1,3-cis-Dichloropropene		1,700	1 U	1 U	1 U
1,3-trans-Dichloropropene		1,700	1 U	1 U	1 U
2-Butanone			5 U	5 U	5 U
2-Hexanone	_	_	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U
Acetone	_	_	5 U	5 U	5 U
Benzene	5	71.28	21.3 =	0.2 J	1 U
Bromodichloromethane			1 U	1 U	1 U
Bromoform		360	1 U	1 U	1 U
Bromomethane			1 U	1 U	1 U
Carbon Disulfide			5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U
Chloroethane			1 U	1 U	1 U
Chloroform		470.8	1 U	1 U	1 U
Chloromethane			1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U
Ethylbenzene	700	28,718	3.2 =	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U
Toluene	1,000	200,000	0.6 J	1 U	0.3 J
Trichloroethene	5	80.7	53.3 =	158 =	1 U
Vinyl Chloride	2	525	1 U	1 U	1 U
Xylenes, Total	10,000	_	8.8 =	3 U	3 U

^a U.S. Environmental Protection Agency maximum contaminant level.

b GA EPD water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

J Indicates the value for the compound is an estimated value.

= Indicates the compound was detected at the concentration reported.

Laboratory analytical data sheets for the groundwater samples collected in February 2000 were provided in the CAP–Part B Addendum #1 report dated June 2001.

FIRST SEMIANNUAL SAMPLING EVENT

JUNE 2000

Table VIII-C. Summary of June 2000 Groundwater Analytical Results

Well ID:		In-Stream	AF-40	AF-41	AF-42
Sample ID	Federal	Water	AF4032	AF4132	AF4232
Screened Interval (ft BGS):	SDWA	Quality	28.5 - 33.0	28.5 - 33.0	28.5 - 33.0
Sample Date:	\mathbf{MCLs}^a	$Standards^b$	23-Jun-00	23-Jun-00	23-Jun-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	$(\mu g/L)$
VOLATILE ORGANIC COMPO					
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1.6 =	3 =	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U
1,2-Dichloroethene	_	_	63.3 =	110 =	2 U
1,2-Dichloropropane	_	_	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U
2-Butanone	_	_	5 U	5 U	5 U
2-Hexanone	_	_	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U
Acetone	_	_	5 U	5 U	5 U
Benzene	5	71.28	1.3 =	1 U	1 U
Bromodichloromethane	_	_	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U
Bromomethane	_	_	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U
Chloroethane	_	_	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U
Chloromethane	_	_	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U
Ethylbenzene	700	28,718	0.57 J	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	0.81 J
Trichloroethene	5	80.7	353 =	636 =	1 U
Vinyl Chloride	2	525	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U

^a U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

<u>Laboratory Qualifiers</u>

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

J Indicates the value for the compound is an estimated value.

= Indicates the compound was detected at the concentration reported.

Laboratory analytical data sheets for the groundwater samples collected in June 2000 were provided in the CAP–Part B Addendum #1 report dated June 2001.

SUPPLEMENTAL GROUNDWATER SAMPLING TO SUPPORT GEOPHYSICAL SURVEY

SEPTEMBER 2000

Table VIII-D. Summary of September 2000 Groundwater Analytical Results

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-01 AF0142 2.5 – 12.5 28-Sep-00 (µg/L)	AF-02 AF0242 2.0 – 12.0 28-Sep-00 (μg/L)	AF-03 AF0342 2.0 – 12.0 28-Sep-00 (µg/L)	AF-04 AF0442 2.0 – 12.0 28-Sep-00 (μg/L)	AF-05 AF0542 2.0 – 12.0 28-Sep-00 (μg/L)	AF-07 AF0742 2.5 – 12.5 28-Sep-00 (μg/L)
VOLATILE ORGANIC COM	POUNDS							
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U	100 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	100 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	100 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U	1 U	1 U	100 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U	100 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	100 U
1,2-Dichloroethene	_	_	2 U	2 U	2 U	2 U	2 U	200 U
1,2-Dichloropropane	_	_	1 U	1 U	1 U	1 U	1 U	100 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	100 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	100 U
2-Butanone	_		5 U	5 U	5 U	5 U	5 U	500 U
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U	500 U
4-Methyl-2-Pentanone	_		5 U	5 U	5 U	5 U	5 U	500 U
Acetone	_		6.7 =	8 =	18 =	9.1 =	11.7 =	500 U
Benzene	5	71.28	1 U	0.82 J	1 U	1 U	4.7 =	9,920 =
Bromodichloromethane	_		1 U	1 U	1 U	1 U	1 U	100 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	100 U
Bromomethane	_		1 U	1 U	1 U	1 U	1 U	100 U
Carbon Disulfide	_		5 U	5 U	5 U	5 U	5 U	500 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	100 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	100 U
Chloroethane	_		1 U	1 U	1 U	1 U	1 U	100 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U	100 U
Chloromethane	_		1 U	1 U	1 U	1 U	1 U	100 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	100 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	4.7 =	645 =
Methylene Chloride	_		5 U	5 U	5 U	5 U	5 U	500 U
Styrene	100		1 U	1 U	1 U	1 U	1 U	100 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	100 U
Toluene	1,000	200,000	1 U	1 U	1 U	1 U	0.82 J	39.2 J
Trichloroethene	5	80.7	1 U	1 U	1 U	1 U	1 U	100 U
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	100 U
Xylenes, Total	10,000		3 U	3 U	3 U	3 U	20.9 =	300 U

^a U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

J Indicates the value for the compound is an estimated value.

= Indicates the compound was detected at the concentration reported.

Table VIII-D. Summary of September 2000 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-08 AF0842 2.5 – 12.5 28-Sep-00 (μg/L)	AF-09 AF0942 2.0 – 12.0 28-Sep-00 (μg/L)	AF-11 AF1142 1.0 – 11.0 28-Sep-00 (μg /L)	AF-12 AF1242 2.5 – 12.5 28-Sep-00 (μg/L)	AF-13 AF1342 2.5 – 12.5 28-Sep-00 (μg/L)	AF-14 AF1442 1.4 – 11.4 28-Sep-00 (μg /L)
VOLATILE ORGANIC COMPOUNDS								
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_	_	2 U	3.4 =	2 U	2 U	1.2 J	2 U
1,2-Dichloropropane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	_		5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	_	_	6.8 =	7.4 =	5 U	8.2 =	7.2 =	8.3 =
Benzene	5	71.28	0.2 J	7 =	1 U	33.2 =	1 U	1 U
Bromodichloromethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	16.7 =	1 U	94.1 =	0.17 J	0.064 J
Methylene Chloride	_		5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100		1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	0.36 J	1 U	0.29 J	1 U	1 U
Trichloroethene	5	80.7	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U	3.2 =	1.2 J	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- b Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

- U Indicates the compound was not detected at the concentration reported.
- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
- J Indicates the value for the compound is an estimated value.
- = Indicates the compound was detected at the concentration reported.

Table VIII-D. Summary of September 2000 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-15 AF1542 1.5 – 11.5 28-Sep-00 (μg/L)	AF-16 AF1642 1.5 – 11.5 28-Sep-00 (μg/L)		AF-19 AF1942 1.5 – 11.5 28-Sep-00 (μg/L)	AF-20 AF2042 3.0 – 13.0 27-Sep-00 (μg/L)	AF-23 AF2342 3.0 – 13.0 27-Sep-00 (μg/L)
VOLATILE ORGANIC COMP	POUNDS							
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene		_	2 U	2 U	5.6 =	0.36 J	2.3 =	8.5 =
1,2-Dichloropropane		_	1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	_		5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	_		8.2 =	6.5 =	11.2 =	7.4 =	7.7 =	6.6 =
Benzene	5	71.28	0.19 J	1 U	5.8 =	0.24 J	0.55 J	1.6 =
Bromodichloromethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_		5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	0.11 J	1 U	1 U	1 U
Methylene Chloride	_		5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100		1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	0.7 J	0.99 J	1 U	1 U
Trichloroethene	5	80.7	1 U	1 U	1.4 =	1 U	1 U	0.33 J
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000		3 U	3 U	3 U	3 U	3 U	3 U

- U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
- J Indicates the value for the compound is an estimated value.
- = Indicates the compound was detected at the concentration reported.

Table VIII-D. Summary of September 2000 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-24 AF2442 2.0 – 12.0 28-Sep-00 (μg/L)	AF-25 AF2542 0.5 – 10.5 28-Sep-00 (μg/L)	AF-26 AF2642 2.0 – 12.0 28-Sep-00 (μg/L)	AF-27 AF2742 1.0 – 11.0 28-Sep-00 (μg/L)	AF-28 AF2842 2.0 – 12.0 28-Sep-00 (μg/L)	AF-29 AF2942 2.0 – 12.0 28-Sep-00 (μg/L)
VOLATILE ORGANIC COMP								
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_	_	2 U	34 =	21.8 =	30.7 =	42.6 =	2.4 =
1,2-Dichloropropane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	_		5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	_		5 U	5 U	5 U	5 U	5 U	12.4 U
Benzene	5	71.28	1.0 U	1.6 =	11.2 =	1.9 =	8.6 =	351 =
Bromodichloromethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_		5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U	54.1 =
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1.9 =	1 U	1.2 =	2.8 =
Trichloroethene	5	80.7	1 U	197 =	102 J	179 =	56.8 =	2.6 =
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	0.77 J
Xylenes, Total	10,000	_	3 U	3 U	3 U	3 U	3 U	5.1 =

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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Table VIII-D. Summary of September 2000 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-33 AF3342 2.3 – 11.8 28-Sep-00 (µg/L)	AF-34 AF3442 1.4 – 10.9 28-Sep-00 (μg/L)	AF-35 AF3542 1.2 – 10.7 28-Sep-00 (μg/L)	AF-36 AF3642 1.4 – 10.9 28-Sep-00 (μg/L)	AF-37 AF3742 4.4 – 14.3 28-Sep-00 (μg/L)	AF-38 AF3842 4.1 – 14.1 28-Sep-00 (μg/L)
VOLATILE ORGANIC COMP								
1,1,1-Trichloroethane	200		1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	2.8 =	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	3.9 =	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene		_	8.1 =	13 =	9.6 =	3.3 =	17.2 =	0.39 J
1,2-Dichloropropane			1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene		1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	_		5 U	5 U	5 U	5 U	5 U	1 U
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	_		5 U	5 U	5 U	6.8 U	5 U	6.8 U
Benzene	5	71.28	1 U	1 U	0.38 J	0.83 J	2.7 =	0.19 J
Bromodichloromethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_		5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Chloroform		470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane		22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride		_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	0.47 J	1 U	0.78 J	1.9 =	1.4 =
Trichloroethene	5	80.7	34.4 =	105 J	27.6 =	10.3 =	226 =	1 U
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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Table VIII-D. Summary of September 2000 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-40 AF4042 28.5 – 33.0 28-Sep-00 (µg/L)	AF-41 AF4142 28.5 – 33.0 28-Sep-00 (μg/L)	AF-42 AF4242 28.5 - 33.0 28-Sep-00 (µg/L)
VOLATILE ORGANIC COMPOU	'N DS				
1,1,1-Trichloroethane	200		1 U	1 U	1 U
1,1,2,2-Tetrachloroethane		10.8	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U
1,1-Dichloroethane			1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U
1,2-Dichloroethene			14.6 =	1.7 J	2 U
1,2-Dichloropropane		_	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U
1,3-trans-Dichloropropene		1,700	1 U	1 U	1 U
2-Butanone			5 U	5 U	5 U
2-Hexanone			5 U	5 U	5 U
4-Methyl-2-Pentanone		_	5 U	5 U	5 U
Acetone	_	_	5 U	5.2 U	5 U
Benzene	5	71.28	1.8 =	1 U	1 U
Bromodichloromethane	_	_	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U
Bromomethane	_	_	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U
Chloroethane	_	_	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U
Chloromethane	_	_	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U
Ethylbenzene	700	28,718	0.45 J	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1 U
Trichloroethene	5	80.7	42.9 =	1.2 =	1 U
Vinyl Chloride	2	525	0.76 J	1 U	1 U
Xylenes, Total	10,000		3 U	3 U	3 U

- U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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Laboratory analytical data sheets for the groundwater samples collected in September 2000 were provided in the CAP–Part B Addendum #1 report dated June 2001.

VERTICAL-PROFILE SAMPLING NOVEMBER/DECEMBER 2000

Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results

Well ID: Sample ID	Federal	In-Stream Water	AF-43 AF4312	AF-43 AF4322	AF-43 AF4332	AF-43 AF4342	AF-43 AF4352	AF-43 AF4362
Screened Interval (ft BGS):	SDWA	Quality .	4.0 - 9.0	9.0 - 14.0	14.0 - 19.0	19.0 - 24.0	24.0 - 29.0	29.0 - 34.0
Sample Date:	\mathbf{MCLs}^a	$\mathbf{Standards}^b$	30-Nov-00	30-Nov-00	30-Nov-00	30-Nov-00	30-Nov-00	30-Nov-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP								
1,1,1-Trichloroethane	200		1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane			1 U	1 U	1 U	1 U	1 U	1.3 =
1,1-Dichloroethene	7	3.2	1 U	1 U	0.51 J	2.3 =	5.4 =	12.8 =
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_		2 U	0.46 J	5.3 =	20.2 =	103 =	116 =
1,2-Dichloropropane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene		1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	_	_	5 U	1.2 J	5 U	5 U	5 U	5 U
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone			5 U	5 U	5 U	5 U	5 U	5 U
Acetone			11 =	3.6 J	1.6 J	1.8 J	2 J	1.8 J
Benzene	5	71.28	1 U	1 U	1 U	0.68 J	1 U	1 U
Bromodichloromethane			1 U	1 U	1 U	1 U	1 U	1 U
Bromoform		360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_		5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane			1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100		1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1 U	1 U	0.27 J	1 U
Trichloroethene	5	80.7	1 U	1.2 =	304 =	2,600 =	2,140 =	2,030 =
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000		3 U	5 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- b Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

- U Indicates the compound was not detected at the concentration reported.
- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
- J Indicates the value for the compound is an estimated value.
- = Indicates the compound was detected at the concentration reported.

Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Screened Interval (ft BGS):	Federal SDWA	Water	A TC 4272					
Screened Interval (ft BGS):	SDWA		AF4372	AF4382	AF4392	AF4412	AF4422	AF4432
Sample Date:		Quality	34.0 – 39.0			4.0 – 9.0	9.0 – 14.0	14.0 – 19.0
	MCLs ^a	Standards ^b	30-Nov-00	30-Nov-00	30-Nov-00	01-Dec-00	01-Dec-00	01-Dec-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMPO								
1,1,1-Trichloroethane	200		1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane		10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane			0.9 J	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	7.2 =	0.1 J	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene			68.2 =	9.8 =	5.4 =	7 =	2.8 =	2 U
1,2-Dichloropropane			1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone		_	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone			5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_		5 U	5 U	5 U	5 U	5 U	5 U
Acetone			2.9 J	2 J	5 U	5 U	5 U	5 U
Benzene	5	71.28	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_		5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane			1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane		22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	0.062 J	1 U	0.072 J	1 U
Methylene Chloride		_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	0.45 J	1 U	0.29 J	1 U
Trichloroethene	5	80.7	883 =	213 J	71.2 =	14.3 =	80.1 =	13 =
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	0.32 J	3 U	0.46 J	3 U

^a U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

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Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID: Sample ID	Federal	In-Stream Water	AF-44 AF4442	AF-44 AF4452	AF-44 AF4462	AF-44 AF4472	AF-44 AF4482	AF-44 AF4492
Screened Interval (ft BGS):	SDWA	Ouality	19.0 – 24.0	_	29.0 – 34.0		_	
Sample Date:	\mathbf{MCLs}^a	Standards ^b	01-Dec-00	01-Dec-00	01-Dec-00	01-Dec-00		01-Dec-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP		48 /	<u> </u>	(18)	<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ 	<u> </u>	VIB /
1,1,1-Trichloroethane	200		1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethane		_	1 U	1 U	1 U	1 U	1 U	
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	3.2 =	0.84 J	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene		_	5.6 =	7 =	1.1 J	104 =	38.6 =	9.2 =
1,2-Dichloropropane	_		1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene		1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	_		5 U	5 U	5 U	5 U	2.4 J	1.4 J
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U	2.2 J
4-Methyl-2-Pentanone	_		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	_		5 U	5 U	5 U	1.8 J	4.3 J	4.5 J
Benzene	5	71.28	1 U	1 U	1 U	0.16 J	0.31 J	1 U
Bromodichloromethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	
Bromomethane		_	1 U	1 U	1 U	1 U	1 U	
Carbon Disulfide		_	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	
Chloroethane		_	1 U	1 U	1 U	1 U	1 U	
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U	
Chloromethane	_	_	1 U	1 U	1 U	1 U	1 U	
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	0.11 J	
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U	
Styrene	100	_	1 U	1 U	1 U	1 U	1 U	
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	
Toluene	1,000	200,000	0.31 J	0.3 J	0.38 J	1 U	0.48 J	1 U
Trichloroethene	5	80.7	54.9 =	33.5 =	0.83 J	790 =	346 =	
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	
Xylenes, Total	10,000		3 U	3 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID:	F. J 1	In-Stream	AF-45	AF-45	AF-45	AF-45	AF-45	AF-45
Sample ID	Federal SDWA	Water Ouality	AF4512 4.0 – 9.0	AF4522 9.0 – 14.0	AF4532	AF4542 19.0 – 24.0	AF4552 24.0 - 29.0	AF4562 29.0 – 34.0
Screened Interval (ft BGS): Sample Date:	MCLs ^a	Standards ^b	4.0 – 9.0 01 Dec 00	9.0 – 14.0 01-Dec-00		01-Dec-00	01-Dec-00	01-Dec-00
Sample Date: Units:	MCLs (μg/L)	Standards (μg/L)		01-Dec-00 (μg/L)	01-Dec-00 (μg/L)			01-Dec-00 (μg/L)
		(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(μg/L)	(μg/L)
VOLATILE ORGANIC COMP			1 77	1 11	1 11	1 11	1 11	1 77
1,1,1-Trichloroethane	200		1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_		1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	0.17 J	1 U	0.63 J	3.8 =	4.7 =
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_		10.3 =	7.6 =	1.5 J	67.5 =	279 =	206 =
1,2-Dichloropropane	_		1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	_		5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	71.28	1.8 =	4.2 =	0.99 J	0.33 J	0.24 J	0.19 J
Bromodichloromethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	—		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide			0.41 J	0.59 J	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100		1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	0.39 J	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	80.7	1.9 =	47.2 =	18.3 =	428 =	1,510 =	1,490 =
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	0.27 J	0.24 J
Xylenes, Total	10,000	_	3 U	3 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
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Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID:		In-Stream	AF-45	AF-45	AF-45	AF-46	AF-46	AF-46
Sample ID	Federal	Water	AF4572	AF4582	AF4592	AF4612	AF4622	AF4632
Screened Interval (ft BGS):	SDWA	Quality	34.0 - 39.0	39.0 – 44.0		6.0 - 10.0		16.0 - 20.0
Sample Date:	\mathbf{MCLs}^a	Standards ^b	02-Dec-00	02-Dec-00	02-Dec-00	02-Dec-00		02-Dec-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP								
1,1,1-Trichloroethane	200		2 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	2 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	2 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	2 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	2 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	2 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_	_	15.2 =	5.9 =	2 U	0.73 J	1.4 J	2 U
1,2-Dichloropropane			2 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	2 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	2 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	_	_	10 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone		_	10 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		_	10 U	5 U	5 U	5 U	5 U	5 U
Acetone		_	10 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	71.28	2 U	1 U	1 U	0.22 J	0.65 J	0.3 J
Bromodichloromethane		_	2 U	1 U	1 U	1 U	1 U	1 U
Bromoform		360	2 U	1 U	1 U	1 U	1 U	1 U
Bromomethane		_	2 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_		10 U	5 U	5 U	5 U	0.84 J	5 U
Carbon Tetrachloride	5	4.42	2 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	2 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	_	_	2 U	1 U	1 U	1 U	1 U	1 U
Chloroform		470.8	2 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		_	2 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane		22	2 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	2 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	_		10 U	5 U	5 U	5 U	5 U	5 U
Styrene	100		2 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	2 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	0.66 J	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	80.7	181 =	48.4 =	0.59 J	1 U	3.9 =	2.6 =
Vinyl Chloride	2	525	2 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000		6 U	3 U	3 U	3 U	3 U	3 U

^a U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

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Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-46 AF4642 21.0 – 25.0 02-Dec-00 (µg/L)	AF-46 AF4652 26.0 – 30.0 02-Dec-00 (µg/L)	AF-46 AF4662 31.0 – 35.0 02-Dec-00 (μg/L)			AF-46 AF4692 46.0 – 50.0 02-Dec-00 (µg/L)
VOLATILE ORGANIC COMP	OUNDS							
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U		1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U		1 U
1,1-Dichloroethane		_	1 U	1 U	1 U	1 U		1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U		1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U		1 U
1,2-Dichloroethene		_	1.4 J	2.3 =	0.46 J	2 U		2 U
1,2-Dichloropropane		_	1 U	1 U	1 U	1 U		1 U
1,3-cis-Dichloropropene		1,700	1 U	1 U	1 U	1 U		1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U		1 U
2-Butanone	_	_	5 U	5 U	5 U	5 U		5 U
2-Hexanone	_	_	5 U	5 U	5 U	5 U		5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U	5 U		5 U
Acetone		_	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	71.28	0.63 J	0.16 J	1 U	1 U		1 U
Bromodichloromethane	_	_	1 U	1 U	1 U	1 U		1 U
Bromoform	_	360	1 U	1 U	1 U	1 U		1 U
Bromomethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		_	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform		470.8	1 U	1 U	1 U	1 U		1 U
Chloromethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane		22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U		1 U
Methylene Chloride		_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100		1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1 U	1 U		1 U
Trichloroethene	5	80.7	4.6 =	1.2 =	1 U	1 U		1 U
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U		1 U
Xylenes, Total	10,000		3 U	3 U	3 U	3 U	3 U	3 U

U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

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= Indicates the compound was detected at the concentration reported.

Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID:		In-Stream	AF-47	AF-47	AF-47	AF-47	AF-47	AF-47
Sample ID	Federal	Water	AF4722	AF4732	AF4742	AF4752	AF4762	AF4772
Screened Interval (ft BGS):	SDWA	Quality	11.0 - 15.0		21.0 - 25.0	26.0 - 30.0	31.0 - 35.0	36.0 - 40.0
Sample Date:	\mathbf{MCLs}^a	Standards ^b	02-Dec-00	02-Dec-00	02-Dec-00	02-Dec-00	03-Dec-00	03-Dec-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP								
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	0.51 J	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_	_	0.84 J	2 U	2 U	2 U	2 U	2 U
1,2-Dichloropropane	_	_	0.3 J	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene		1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone			5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	71.28	1.2 =	0.21 J	1 U	1 U	1 U	1 U
Bromodichloromethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane			1 U	1 U	1 U	1 U	1 U	1 U
Chloroform		470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	80.7	3 =	0.27 J	1 U	1 U	1 U	1 U
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	5 U	3 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

- U Indicates the compound was not detected at the concentration reported.
- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
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- = Indicates the compound was detected at the concentration reported.

Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID:		In-Stream	AF-47	AF-47	AF-48	AF-48	AF-48	AF-48
Sample ID	Federal	Water	AF4782	AF4792	AF4812	AF4822	AF4832	AF4842
Screened Interval (ft BGS):	SDWA	Quality	41.0 - 45.0	46.0 - 50.0	5.0 - 10.0		15.0 - 20.0	
Sample Date:	$MCLs^a$	Standards ^b	03-Dec-00	03-Dec-00	04-Dec-00	04-Dec-00	04-Dec-00	04-Dec-00
Units:	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP								
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_	_	2 U	2 U	6.7 =	9.6 =	2 U	2 U
1,2-Dichloropropane			1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	_		5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone		_	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		_	5 U	5 U	5 U	5 U	5 U	5 U
Acetone		_	5 U	5 U	2.4 J	5 U	5 U	5 U
Benzene	5	71.28	1 U	1 U	0.88 J	0.63 J	1 U	1 U
Bromodichloromethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform		360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform		470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1.6 =	0.14 J	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100		1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1.1 U	1 U	8.9 =	1.6 U	1.4 U	1 U
Trichloroethene	5	80.7	1 U	1 U	5.9 =	155 =	1 U	1 U
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000		3 U	3 U	7.3 =	0.42 J	0.4 J	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

- U Indicates the compound was not detected at the concentration reported.
- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
- J Indicates the value for the compound is an estimated value.
- = Indicates the compound was detected at the concentration reported.

Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID:		In-Stream	AF-48	AF-48	AF-48	AF-48	AF-48	AF-49
Sample ID	Federal	Water	AF4852	AF4862	AF4872	AF4882	AF4892	AF4912
Screened Interval (ft BGS):	SDWA	Quality	25.0 - 30.0	30.0 - 35.0	35.0 - 40.0		45.0 - 50.0	
Sample Date:	$MCLs^a$	Standards ^b	04-Dec-00	04-Dec-00	04-Dec-00	04-Dec-00		03-Dec-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMPOUNDS								
1,1,1-Trichloroethane	200		1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane		10.8	1 U	1 U	1 U	1 U	1 U	
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_		1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene		_	2 U	2 U	2 U	2 U	2 U	1.4 J
1,2-Dichloropropane			1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	_		5 U	5 U	5 U	5 U	5 U	2.4 J
2-Hexanone		_	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		_	5 U	5 U	5 U	5 U	5 U	5 U
Acetone		_	5 U	5 U	5 U	5 U	5 U	9.8 U
Benzene	5	71.28	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform		360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U	5 U	5 U	0.63 J
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform		470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride		_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100		1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1.1 U	1 U	1 U	
Trichloroethene	5	80.7	1 U	1 U	1 U	1 U	1 U	0.48 J
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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

Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID:		In-Stream	AF-49	AF-49	AF-49	AF-49	AF-49	AF-49
Sample ID	Federal	Water	AF4922	AF4932	AF4942	AF4952	AF4962	AF4972
Screened Interval (ft BGS):	SDWA	Quality Standards ^b	11.0 – 15.0		21.0 – 25.0		31.0 - 35.0	
Sample Date:	\mathbf{MCLs}^a		03-Dec-00	03-Dec-00	03-Dec-00	03-Dec-00	03-Dec-00	03-Dec-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP								
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane		_	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene		_	1.9 J	2 U	2 U	2 U	2 U	2 U
1,2-Dichloropropane	_		1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone		_	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone			5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone			5 U	5 U	5 U	5 U	5 U	5 U
Acetone			5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	71.28	0.21 J	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_		0.98 J	0.66 J	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane			1 U	1 U	1 U	1 U	1 U	1 U
Chloroform		470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane			1 U	1 U	1 U	1 U	1 U	0.38 J
Dibromochloromethane		22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride		_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	80.7	0.78 J	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
- J Indicates the value for the compound is an estimated value.
- = Indicates the compound was detected at the concentration reported.

Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID:		In-Stream	AF-49	AF-49	AF-50	AF-50	AF-50	AF-50
Sample ID	Federal	Water	AF4982	AF4992	AF5012	AF5022	AF5032	AF5042
Screened Interval (ft BGS):	SDWA	Quality		46.0 - 50.0	4.0 - 9.0	9.0 - 14.0		19.0 - 24.0
Sample Date:	\mathbf{MCLs}^a	Standards ^b	03-Dec-00		02-Dec-00	02-Dec-00		03-Dec-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP	OUNDS							
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane		10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U		1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U	1 U		1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U		1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_	_	2 U	2 U	4 =	4.4 =	0.21 J	2 U
1,2-Dichloropropane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	_	_	5 U	5 U	5 U	5 U	5 U	1.6 J
2-Hexanone	_	_	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	_		2 J	2.6 J	1.8 J	2 J	5 U	5 U
Benzene	5	71.28	1 U	1 U	9.5 =	0.86 J	1 U	1 U
Bromodichloromethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_		5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	_	_	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane		22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	0.58 J	0.69 J	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	3.9 =	3.7 =	1 U	1 U	1 U	1 U
Trichloroethene	5	80.7	1 U	1 U	6.5 =	13.4 =	1 U	1 U
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID:		In-Stream	AF-50	AF-50	AF-50	AF-50	AF-50	AF-51
Sample ID	Federal	Water	AF5052	AF5062	AF5072	AF5082	AF5092	AF5112
Screened Interval (ft BGS):	SDWA	Quality	24.0 – 29.0	29.0 – 34.0				
Sample Date:	\mathbf{MCLs}^a	Standards ^b	03-Dec-00	03-Dec-00	03-Dec-00		03-Dec-00	
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP								
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	_	_
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U		
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U		
1,1-Dichloroethane	—	_	1 U	1 U	1 U	1 U		
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U		
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U		
1,2-Dichloroethene	—	_	2 U	2 U	2 U	2 U		
1,2-Dichloropropane			1 U	1 U	1 U	1 U		
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U		1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U		
2-Butanone	_	_	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone		_	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		_	5 U	5 U	5 U	5 U	5 U	5 U
Acetone		_	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	71.28	1 U	1 U	1 U	1 U		1.3 =
Bromodichloromethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform		360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U		1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U		
Chloroethane	_	_	1 U	1 U	1 U	1 U		
Chloroform		470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane		_	1 U	1 U	1 U	1 U		1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1 U	1 U		
Trichloroethene	5	80.7	1 U	1 U	1 U	1 U		
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000		3 U	3 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
- J Indicates the value for the compound is an estimated value.
- = Indicates the compound was detected at the concentration reported.

Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID:		In-Stream	AF-51	AF-51	AF-51	AF-51	AF-51	AF-51
Sample ID	Federal	Water	AF5122	AF5132	AF5142	AF5152	AF5162	AF5172
Screened Interval (ft BGS):	SDWA	Quality		15.0 - 20.0				
Sample Date:	\mathbf{MCLs}^a	Standards ^b		03-Dec-00	03-Dec-00			04-Dec-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMPOUNDS								
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	10.3 =	2.1 =	0.76 J	1 U	1 U
1,1-Dichloroethene	7	3.2	0.64 J	22.5 =	1.9 =	2.3 =	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_		5.1 =	65.4 =	4 =	11.9 =	0.51 J	2 U
1,2-Dichloropropane	_		1 U	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene		1,700	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone		_	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_		5 U	5 U	5 U	5 U	5 U	5 U
Acetone	_		5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5	71.28	0.86 J	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_		5 U	5 U	5 U	5 U	1 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane		_	1 U	1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	_		1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U	0.16 J
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1 U	1 U	1 U	2.1 U
Trichloroethene	5	80.7	37.3 =	604 =	10.9 =	90.3 =	0.38 J	1 U
Vinyl Chloride	2	525	1 U	0.6 J	1 U	1 U	1 U	1 U
Xylenes, Total	10,000		3 U	3 U	3 U	3 U	3 U	0.45 J

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

- U Indicates the compound was not detected at the concentration reported.
- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
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- = Indicates the compound was detected at the concentration reported.

Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-51 AF5182 40.0 – 45.0 04-Dec-00 (µg/L)	AF-51 AF5192 45.0 – 50.0 04-Dec-00 (µg/L)	AF-52 AF5212 4.0 – 9.0 02-Dec-00 (μg/L)	AF-52 AF5222 9.0 – 14.0 02-Dec-00 (μg/L)	AF-52 AF5232 14.0 – 19.0 02-Dec-00 (µg/L)	AF-52 AF5242 19.0 – 24.0 02-Dec-00 (μg/L)
VOLATILE ORGANIC COMP	POUNDS							
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	20 U	50 U
1,1,2,2-Tetrachloroethane		10.8	1 U	1 U	1 U	1 U	20 U	50 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	20 U	50 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U	1 U	20 U	50 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	20 U	16.3 J
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	20 U	50 U
1,2-Dichloroethene	_	_	0.97 J	2 U	2 U	2 U	34.5 J	378 =
1,2-Dichloropropane	_	_	1 U	1 U	1 U	1 U	20 U	50 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	20 U	50 U
1,3- <i>trans</i> -Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	20 U	50 U
2-Butanone		_	5 U	5 U	1.2 J	5 U	100 U	250 U
2-Hexanone		_	5 U	5 U	5 U	5 U	100 U	250 U
4-Methyl-2-Pentanone		_	5 U	5 U	5 U	5 U	100 U	250 U
Acetone		_	5 U	5 U	8.5 =	1.8 J	100 U	250 U
Benzene	5	71.28	1 U	1 U	0.18 J	1 U	20 U	50 U
Bromodichloromethane	_	_	1 U	1 U	1 U	1 U	20 U	50 U
Bromoform	_	360	1 U	1 U	1 U	1 U	20 U	50 U
Bromomethane		_	1 U	1 U	1 U	1 U	20 U	50 U
Carbon Disulfide		_	5 U	5 U	5 U	5 U	100 U	250 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	20 U	50 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	20 U	50 U
Chloroethane			1 U	1 U	1 U	1 U	20 U	50 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	20 U	50 U
Chloromethane	_	_	1 U	1 U	1 U	1 U	20 U	50 U
Dibromochloromethane		22	1 U	1 U	1 U	1 U	20 U	50 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	20 U	50 U
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	100 U	250 U
Styrene	100	_	1 U	1 U	1 U	1 U	20 U	50 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	20 U	50 U
Toluene	1,000	200,000	1.3 U	1 U	1 U	1 U	20 U	50 U
Trichloroethene	5	80.7	2.4 =	1 U	1 U	0.33 J	1,780 =	7,730 =
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	20 U	50 U
Xylenes, Total	10,000		3 U	3 U	3 U	3 U	60 U	150 U

U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

J Indicates the value for the compound is an estimated value.

= Indicates the compound was detected at the concentration reported.

Table VIII-E. Summary of November/December 2000 Groundwater Analytical Results (continued)

Well ID:		In-Stream	AF-52	AF-52	AF-52	AF-52	AF-52
Sample ID	Federal	Water	AF5252	AF5262	AF5272	AF5282	AF5292
Screened Interval (ft BGS):	SDWA	Quality	24.0 - 29.0		34.0 - 39.0		44.0 - 49.0
Sample Date:	\mathbf{MCLs}^a	Standards ^b	02-Dec-00	02-Dec-00	02-Dec-00	02-Dec-00	02-Dec-00
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMPOU	INDS						
1,1,1-Trichloroethane	200	_	25 U	1 U	10 U	10 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	25 U	1 U	10 U	10 U	1 U
1,1,2-Trichloroethane	5	41.99	25 U	1 U	10 U	10 U	1 U
1,1-Dichloroethane	_	_	25 U	1 U	10 U	10 U	1 U
1,1-Dichloroethene	7	3.2	15 J	0.61 J	10 U	10 U	1 U
1,2-Dichloroethane	5	98.6	25 U	1 U	10 U	10 U	1 U
1,2-Dichloroethene		_	174 =	6 =	65.2 =	42.7 =	0.31 J
1,2-Dichloropropane	_	_	25 U	1 U	10 U	10 U	1 U
1,3-cis-Dichloropropene	_	1,700	25 U	1 U	10 U	10 U	1 U
1,3-trans-Dichloropropene		1,700	25 U	1 U	10 U	10 U	1 U
2-Butanone		_	125 U	5 U	50 U	50 U	5 U
2-Hexanone		_	125 U	5 U	50 U	50 U	5 U
4-Methyl-2-Pentanone		_	125 U	5 U	50 U	50 U	5 U
Acetone		_	125 U	5 U	50 U	50 U	5 U
Benzene	5	71.28	25 U	1 U	10 U	10 U	1 U
Bromodichloromethane		_	25 U	1 U	10 U	10 U	1 U
Bromoform		360	25 U	1 U	10 U	10 U	1 U
Bromomethane		_	25 U	1 U	10 U	10 U	1 U
Carbon Disulfide		_	125 U	5 U	50 U	50 U	5 U
Carbon Tetrachloride	5	4.42	25 U	1 U	10 U	10 U	1 U
Chlorobenzene	100	21,000	25 U	1 U	10 U	10 U	1 U
Chloroethane		_	25 U	1 U	10 U	10 U	1 U
Chloroform		470.8	25 U	1 U	10 U	10 U	1 U
Chloromethane		_	25 U	1 U	10 U	10 U	1 U
Dibromochloromethane	_	22	25 U	1 U	10 U	10 U	1 U
Ethylbenzene	700	28,718	25 U	1 U	10 U	10 U	1 U
Methylene Chloride	_	_	125 U	5 U	50 U	50 U	5 U
Styrene	100	_	25 U	1 U	10 U	10 U	1 U
Tetrachloroethene	5	8.85	25 U	1 U	10 U	10 U	1 U
Toluene	1,000	200,000	25 U	1 U	10 U	10 U	1 U
Trichloroethene	5	80.7	2,120 =	34.1 =	631 =	516 =	2.8 =
Vinyl Chloride	2	525	25 U	1 U	10 U	10 U	1 U
Xylenes, Total	10,000		75 U	3 U	30 U	30 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

- U Indicates the compound was not detected at the concentration reported.
- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
- J Indicates the value for the compound is an estimated value.
- = Indicates the compound was detected at the concentration reported.

Laboratory analytical data sheets for the groundwater samples collected in November/December 2000 were provided in the CAP–Part B Addendum #1 report dated June 2001.

SECOND SEMIANNUAL SAMPLING EVENT JANUARY 2001

Table VIII-F. Summary of January 2001 Groundwater Analytical Results

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-40 AF4052 28.5 – 33.0 07-Jan-01 (μg/L)	AF-41 AF4152 28.5 – 33.0 07-Jan-01 (μg/L)	AF-42 AF4252 28.5 – 33.0 07-Jan-01 (μg/L)
VOLATILE ORGANIC COM	POUNDS				
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	0.41 J	0.82 J	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U
1,2-Dichloroethene		_	26 =	32.7 =	2 U
1,2-Dichloropropane		_	1 U	1 U	1 U
1,3-cis-Dichloropropene		1,700	1 U	1 U	1 U
1,3-trans-Dichloropropene		1,700	1 U	1 U	1 U
2-Butanone		_	5 UJ	5 UJ	5 UJ
2-Hexanone		_	5 U	5 U	5 U
4-Methyl-2-Pentanone	_		5 U	5 U	5 U
Acetone		_	5 U	5 U	5 U
Benzene	5	71.28	0.39 J	1 U	1 U
Bromodichloromethane		_	1 U	1 U	1 U
Bromoform		360	1 U	1 U	1 U
Bromomethane		_	1 U	1 U	1 U
Carbon Disulfide	_		5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U
Chloroethane	_	_	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U
Chloromethane	_		1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U
Ethylbenzene	700	28,718	0.13 J	1 U	1 U
Methylene Chloride	_		5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1 U
Trichloroethene	5	80.7	108 J	176 =	1 U
Vinyl Chloride	2	525	0.67 J	1 U	1 U
Xylenes, Total	10,000	_	0.34 J	3 U	3 U

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- J Indicates the value for the compound is an estimated value.
- = Indicates the compound was detected at the concentration reported.

^a U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory analytical data sheets for the groundwater samples collected in January 2001 were provided in the CAP–Part B Addendum #1 report dated June 2001.

ADDITIONAL WELL INSTALLATION AND SAMPLING FEBRUARY/MARCH 2001

Table VIII-G. Summary of February/March 2001 Groundwater Analytical Results

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-53 AF5312 20.0 – 30.0 10-Mar-01 (μg/L)	AF-54 AF5412 32.4 – 42.4 10-Mar-01 (µg/L)		AF-56 AF5612 19.9 – 29.9 10-Mar-01 (µg/L)	AF-57 AF5712 57.38 – 62.8 09-Mar-01 (µg/L)
VOLATILE ORGANIC COMPO	UNDS						
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	5 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	5 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	5 U	1 U
1,1-Dichloroethane	_	_	1 =	1 U	1 U	5 U	1 U
1,1-Dichloroethene	7	3.2	4.6 U	1 U	1 U	5 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	5 U	1 U
1,2-Dichloroethene		_	88.8 =	53.2 =	154 =	7.9 J	2 U
1,2-Dichloropropane		_	1 U	1 U	1 U	5 U	1 U
1,3-cis-Dichloropropene		1,700	1 U	1 U	1 U	5 U	1 U
1,3-trans-Dichloropropene		1,700	1 U	1 U	1 U	5 U	1 U
2-Butanone		_	5 U	5 U	5 U	25 U	5 U
2-Hexanone		_	5 U	5 U	5 U	25 U	5 U
4-Methyl-2-Pentanone		_	5 U	5 U	5 U	25 U	5 U
Acetone		_	97.3 =	613 J	3,100 J	25 U	220 =
Benzene	5	71.28	0.22 J	1 U	0.35 J	5 U	1 U
Bromodichloromethane		_	1 U	1 U	1 U	5 U	1 U
Bromoform		360	1 U	1 U	1 U	5 U	1 U
Bromomethane		_	1 U	1 U	1 U	5 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U	25 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	5 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	5 U	1 U
Chloroethane		_	1 U	1 U	1 U	5 U	1 U
Chloroform		470.8	1 U	2.5 =	0.21 J	5 U	4.7 =
Chloromethane		_	1 U	1 U	1 U	5 U	1 U
Dibromochloromethane		22	1 U	1 U	1 U	5 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	5 U	1 U
Methylene Chloride		_	5 U	5 U	5 U	25 U	5 U
Styrene	100	_	1 U	1 U	1 U	5 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	5 U	1 U
Toluene	1,000	200,000	0.27 J	1 U	1 U	5 U	1 U
Trichloroethene	5	80.7	2,410 J	352 =	1,020 =	303 =	0.72 J
Vinyl Chloride	2	525	1 U	1 U	1 U	5 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U	15 U	3 U

^a U.S. Environmental Protection Agency maximum contaminant level.

b Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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UJ Indicates the compound was not detected above an approximated sample quantitation limit.

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Table VIII-G. Summary of February/March 2001 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-58 AF5812 2.7 – 12.7 09-Mar-01 (μg/L)	AF-59 AF5912 2.3 – 12.3 10-Mar-01 (μg/L)	AF-60 AF6012 20.0 – 30.0 10-Mar-01 (μg/L)	AF-61 AF6112 20.0 – 30.0 10-Mar-01 (µg/L)	AF-62 AF6212 3.0 – 13.0 10-Mar-01 (μg/L)
VOLATILE ORGANIC COMP		(µg/11)	(μg/L)	(µg/L)	(µg/11)	(µg/L)	(µg/L)
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane		_	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_	_	8 =	2 U	3.4 =	1.3 J	2 U
1,2-Dichloropropane	_	_	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene		1,700	1 U	1 U	1 U	1 U	1 U
2-Butanone		_	2.8 J	1 J	5 U	2.3 J	1.9 J
2-Hexanone		_	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		_	5 U	5 U	5 U	5 U	5 U
Acetone		_	1,360 J	2,250 J	33.8 U	356 =	8,630 J
Benzene	5	71.28	0.16 J	0.67 J	0.26 J	1 U	0.15 J
Bromodichloromethane	_	_	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U
Bromomethane	_	_	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U
Chloroethane	_		1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1.1 =	0.66 J	1 U	0.39 J	1 =
Chloromethane	_	_	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane		22	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U
Methylene Chloride			5 U	5 U	5 U	5 U	5 U
Styrene	100		1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	0.62 J	1 U	1 U	1 U	0.23 J
Trichloroethene	5	80.7	13 =	1 U	26.1 =	267 =	0.39 J
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000		0.25 J	3 U	3 U	3 U	3 U

- U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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Laboratory analytical data sheets for the groundwater samples collected in February/March 2001 were provided in the CAP–Part B Addendum #1 report dated June 2001.

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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SEMIANNUAL SAMPLING OF DEEP WELLS

JUNE 2001

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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Table VIII-H. Summary of June 2001 Groundwater Analytical Results

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-40 AF4062 28.5 – 33.0 6-Jun-01 (μg/L)	AF-41 AF4162 28.5 – 33.0 6-Jun-01 (µg/L)	AF-42 AF4262 28.5 – 33.0 6-Jun-01 (μg/L)
VOLATILE ORGANIC COMPOUND					
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	3 UJ	3 UJ	3 UJ
1,1-Dichloroethane	_	_	0.45 J	0.15 J	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U
1,2-Dichloropropane	_	_	1 U	1 U	1 U
2-Butanone	_	_	1 U	1 U	1 U
2-Hexanone	_	_	0.89 J	0.81 J	1 U
4-Methyl-2-Pentanone	_	_	1.3 J	5 U	5 U
Acetone	_	_	5 U	5 U	5 U
Benzene	5	71.28	12.7 J	16.7 =	16.6 =
Bromodichloromethane		_	5 U	5 U	5 U
Bromoform		360	1 U	1 U	1 U
Bromomethane		_	1 U	1 U	1 U
Carbon Disulfide		_	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U
Chlorobenzene	100	21,000	0.45 J	0.15 J	1 U
Chloroethane	_	_	255 J	195 J	1 U
Chloroform	_	470.8	1 U	1 U	0.36 J
Chloromethane		_	1 U	1 U	1 U
Dibromochloromethane		22	5 U	1 U	1 U
Ethylbenzene	700	28,718	1 UJ	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1 U
Trichloroethene	5	80.7	3 UJ	3 UJ	3 UJ
Vinyl Chloride	2	525	1 U	1 U	1 U
Xylenes, Total	10,000	_	1 U	1 U	1 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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- = Indicates the compound was detected at the concentration reported.

Laboratory analytical data sheets for the groundwater samples collected in June 2001 were provided in the Monitoring Only report dated June 2002.

VERTICAL-PROFILE SAMPLING JULY 2002

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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Table VIII-I. Summary of July 2002 Groundwater Analytical Results

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-63 AF6312 1.0 – 5.0 16-Jul-02 (µg/L)	AF-63 AF6322 6.0 – 10.0 16-Jul-02 (µg/L)	AF-63 AF6332 11.0 – 15.0 16-Jul-02 (μg/L)	AF-63 AF6342 16.0 – 20.0 16-Jul-02 (µg/L)	AF-63 AF6352 21.0 – 25.0 16-Jul-02 (µg/L)
VOLATILE ORGANIC COMPO	UNDS						
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene		_	2 U	2 U	2 U	0.71 J	1.2 J
1,2-Dichloropropane	_	_	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U
2-Butanone	_	_	5 U	5 U	5 U	5 U	5 U
2-Hexanone	_	_	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U	5 U	5 U
Acetone	_	_	6.4 =	5 U	5 U	5 U	5 U
Benzene	5	71.28	0.92 J	5.6 =	1 U	1 U	1.8 =
Bromodichloromethane	_	_	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U
Bromomethane	_	_	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U
Chloroethane	_	_	1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U
Chloromethane	_	_	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	3.5 =	1 U	1 U	0.45 J
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	2.4 =	1 U	1 U	1 U	2 U
Trichloroethene	5	80.7	1 U	1 U	1 U	12.9 =	20.9 =
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	1 J	3 U	3 U	3 U	3 U

^a U.S. Environmental Protection Agency maximum contaminant level.

b Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

J Indicates the value for the compound is an estimated value.

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Table VIII-I. Summary of July 2002 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-63 AF6362 26.0 – 30.0 16-Jul-02 (μg/L)	AF-63 AF6372 31.0 – 35.0 16-Jul-02 (μg/L)	AF-63 AF6382 36.0 – 40.0 16-Jul-02 (μg/L)	AF-63 AF6392 41.0 – 45.0 16-Jul-02 (μg/L)	AF-64 AF6422 6.0 – 10.0 16-Jul-02 (µg/L)
	VOLATILE ORGANIC COMPOUNDS		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
1,1,1-Trichloroethane	200	_	1 U	1 U	25 U	5 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	25 U	5 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	25 U	5 U	1 U
1,1-Dichloroethane	_		1 U	1 U	25 U	5 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	25 U	5 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	25 U	5 U	1 U
1,2-Dichloroethene	_	_	4.5 =	2 U	116 =	38.7 =	2 U
1,2-Dichloropropane		_	1 U	1 U	25 U	50.7 5 U	1 U
1,3-cis-Dichloropropene		1,700	1 U	1 U	25 U	5 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	25 U	5 U	1 U
2-Butanone	_	_	5 U	5 U	125 U	25 U	5 U
2-Hexanone	_	_	5 U	5 U	125 U	25 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	125 U	25 U	5 U
Acetone		_	5 U	5 U	125 U	25 U	5 U
Benzene	5	71.28	3 =	1.4 =	25 U	5 U	1 U
Bromodichloromethane	_	_	1 U	1 U	25 U	5 U	1 U
Bromoform	_	360	1 U	1 U	25 U	5 U	1 U
Bromomethane	_	_	1 U	1 U	25 U	5 U	1 U
Carbon Disulfide	_	_	5 U	5 U	125 U	25 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	25 U	5 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	25 U	5 U	1 U
Chloroethane	_	_	1 U	1 U	25 U	5 U	1 U
Chloroform	_	470.8	1 U	1 U	25 U	5 U	1 U
Chloromethane	_	_	1 U	1 U	25 U	5 U	1 U
Dibromochloromethane		22	1 U	1 U	25 U	5 U	1 U
Ethylbenzene	700	28,718	1 U	0.64 J	25 U	5 U	1 U
Methylene Chloride	_	_	5 U	5 U	125 U	25 U	5 U
Styrene	100	_	1 U	1 U	25 U	5 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	25 U	5 U	1 U
Toluene	1,000	200,000	1 U	1 U	25 U	3.8 J	1 U
Trichloroethene	5	80.7	71.7 =	0.88 J	1,250 =	344 =	1 U
Vinyl Chloride	2	525	1 U	1 U	25 U	5 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	75 U	15 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- b Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

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Table VIII-I. Summary of July 2002 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-64 AF6432 11.0 – 15.0 16-Jul-02 (μg/L)	AF-64 AF6442 16.0 – 20.0 16-Jul-02 (μg/L)	AF-64 AF6452 21.0 – 25.0 16-Jul-02 (μg/L)	AF-64 AF6462 26.0 – 30.0 16-Jul-02 (μg/L)	AF-64 AF6472 31.0 – 35.0 16-Jul-02 (µg/L)
	VOLATILE ORGANIC COMPOUNDS		(µg/L)	(µg/11)	(µg/L)	(µg/L)	(µg/L)
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene		_	2 U	2 U	2 U	2 =	1.4 J
1,2-Dichloropropane	_	_	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U
2-Butanone	_	_	5 U	5 U	5 U	5 U	5 U
2-Hexanone	_	_	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U	5 U	5 U
Acetone	_	_	5 U	5 U	5 U	5 U	5 U
Benzene	5	71.28	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	_	_	1 U	1 U	1 U	1 U	1 U
Bromoform		360	1 U	1 U	1 U	1 U	1 U
Bromomethane		_	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		_	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U
Chloroethane	_	_	1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U
Chloromethane	_	_	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	2.2 U	2 U	1 U	2.9 U	1.2 U
Trichloroethene	5	80.7	1 U	6.7 =	13.8 =	31.2 =	2.8 =
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- b Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
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Table VIII-I. Summary of July 2002 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-64 AF6482 36.0 – 40.0 16-Jul-02 (μg/L)	AF-64 AF6492 41.0 – 45.0 16-Jul-02 (μg/L)	AF-65 AF6512 1.0 – 5.0 16-Jul-02 (μg/L)	AF-65 AF6522 6.0 – 10.0 16-Jul-02 (µg/L)	AF-65 AF6532 11.0 – 15.0 16-Jul-02 (µg/L)
VOLATILE ORGANIC COMPOUNDS		(Mg/12)	(PS/E)	(Mg/12)	(Mg/12)	(MS/12)	(MS /12)
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane		_	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene		_	2 U	4.4 =	2 U	2 U	2 U
1,2-Dichloropropane	_	_	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene		1,700	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U	1 U	1 U
2-Butanone	_	_	5 U	5 U	5 U	5 U	5 U
2-Hexanone	_		5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U	5 U	5 U
Acetone	_	_	7.3 U	5 U	8.8 U	5 U	5 U
Benzene	5	71.28	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane		_	1 U	1 U	1 U	1 U	1 U
Bromoform		360	1 U	1 U	1 U	1 U	1 U
Bromomethane		_	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide		_	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U
Chloroethane		_	1 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U	1 U	1 U
Chloromethane	_	_	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	7 =	1.7 U	1.9 =	1.1 U	0.74 J
Trichloroethene	5	80.7	1.1 =	79.1 =	1 U	1 U	1 U
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- b Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
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Table VIII-I. Summary of July 2002 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-65 AF6542 16.0 – 20.0 16-Jul-02 (μg/L)	AF-65 AF6552 21.0 – 25.0 16-Jul-02 (μg/L)	AF-65 AF6562 26.0 – 30.0 16-Jul-02 (μg/L)	AF-65 AF6572 31.0 – 35.0 16-Jul-02 (μg/L)	AF-65 AF6582 36.0 – 40.0 16-Jul-02 (µg/L)
VOLATILE ORGANIC COMPOUNDS		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
1,1,1-Trichloroethane	200		1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane		10.8	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_		1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_		2 U	0.38 J	2 U	2 U	2 U
1,2-Dichloropropane	_	_	1 U	0.38 J 1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene		1,700	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene		1,700	1 U	1 U	1 U	1 U	1 U
2-Butanone			5 U	5 U	5 U	5 U	5 U
2-Hexanone		_	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		_	5 U	5 U	5 U	5 U	5 U
Acetone		_	5 U	5 U	5 U	5 U	5 U
Benzene	5	71.28	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	_	_	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U
Bromomethane	_	_	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U
Chloroethane		_	1 U	1 U	1 U	1 U	1 U
Chloroform		470.8	1 U	1 U	1 U	1 U	1 U
Chloromethane		_	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	0.74 J	0.47 J	0.43 J	1 U	1 U
Trichloroethene	5	80.7	2.4 =	3 =	1 U	1 U	1 U
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U	3 U	3 U

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- b Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
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Table VIII-I. Summary of July 2002 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-65 AF6592 41.0 – 45.0 16-Jul-02 (μg/L)	AF-66 AF6612 1.0 – 5.0 16-Jul-02 (μg/L)	AF-66 AF6622 6.0 – 10.0 16-Jul-02 (μg/L)	AF-66 AF6632 1.0 – 15.0 16-Jul-02 (µg/L)	AF-66 AF6642 16.0 – 20.0 16-Jul-02 (μg/L)
VOLATILE ORGANIC COMP		(PS-)	(P*8'-)	(PS)	(r/s / – /	(r·s· –/	(r·s · –)
1,1,1-Trichloroethane	200	_	1 UJ	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane		10.8	1 UJ	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 UJ	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 UJ	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 UJ	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 UJ	1 U	1 U	1 U	1 U
1,2-Dichloroethene		_	2 UJ	2 U	15.9 =	90.5 =	15 =
1,2-Dichloropropane		_	1 UJ	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene		1,700	1 UJ	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene		1,700	1 UJ	1 U	1 U	1 U	1 U
2-Butanone		_	5.3 J	5 U	5 U	5 U	5 U
2-Hexanone	_	_	5 UJ	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 UJ	5 U	5 U	5 U	5 U
Acetone	_	_	19.4 UJ	5 U	16.7 =	5 U	5 U
Benzene	5	71.28	0.38 J	1 U	0.4 J	1 U	1 U
Bromodichloromethane	_	_	1 UJ	1 U	1 U	1 U	1 U
Bromoform	_	360	1 UJ	1 U	1 U	1 U	1 U
Bromomethane	_	_	1 UJ	1 U	1 U	1 U	1 U
Carbon Disulfide	_	_	5 UJ	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 UJ	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 UJ	1 U	1 U	1 U	1 U
Chloroethane		_	1 UJ	1 U	1 U	1 U	1 U
Chloroform		470.8	1 UJ	1 U	1 U	1 U	1 U
Chloromethane		_	1 UJ	1 U	1 U	1 U	1 U
Dibromochloromethane		22	1 UJ	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 UJ	1 U	1 U	1 U	1 U
Methylene Chloride		_	5 UJ	5 U	5 U	5 U	5 U
Styrene	100	_	1 UJ	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 UJ	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1.2 J	3.4 U	4.1 =	3.1 =	3.2 =
Trichloroethene	5	80.7	1 UJ	1 U	1 U	4.2 =	76 =
Vinyl Chloride	2	525	1 UJ	1 U	1 U	0.74 J	1 U
Xylenes, Total	10,000	_	0.27 J	3 U	3 U	3 U	3 U

U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

J Indicates the value for the compound is an estimated value.

= Indicates the compound was detected at the concentration reported.

Table VIII-I. Summary of July 2002 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-66 AF6652 21.0 – 25.0 16-Jul-02 (μg/L)	AF-66 AF6662 26.0 – 30.0 16-Jul-02 (μg/L)	AF-66 AF6672 31.0 – 35.0 16-Jul-02 (μg/L)	AF-66 AF6682 36.0 – 40.0 16-Jul-02 (μg/L)	AF-66 AF6692 41.0 – 45.0 16-Jul-02 (µg/L)
VOLATILE ORGANIC COMPOUNDS		(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)	(μg/L)
1,1,1-Trichloroethane	200	_	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_	_	2 U	2 U	2 U	0.45 J	0.37 J
1,2-Dichloropropane		_	1 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene		1,700	1 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene		1,700	1 U	1 U	1 U	1 U	1 U
2-Butanone	_	_	5 U	5 U	5 U	5 U	5 U
2-Hexanone		_	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone		_	5 U	5 U	5 U	5 U	5 U
Acetone	_	_	5 U	5 U	5 U	5 U	5 U
Benzene	5	71.28	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	_	_	1 U	1 U	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U	1 U	1 U
Bromomethane		_	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U	1 U	1 U
Chloroethane		_	1 U	1 U	1 U	1 U	1 U
Chloroform		470.8	1 U	1 U	1 U	1 U	1 U
Chloromethane		_	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane		22	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U	1 U	1 U
Methylene Chloride		_	5 U	1.9 J	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	1.2 U	1.8 U	1.8 =	1.9 =	1.1 =
Trichloroethene	5	80.7	1 U	1 U	1 U	6 =	4.2 =
Vinyl Chloride	2	525	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U	3 U	3 U

- U.S. Environmental Protection Agency maximum contaminant level.
- Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

- U Indicates the compound was not detected at the concentration reported.
- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
- J Indicates the value for the compound is an estimated value.
- = Indicates the compound was detected at the concentration reported.

Table VIII-I. Summary of July 2002 Groundwater Analytical Results (continued)

Well ID: Sample ID Screened Interval (ft BGS): Sample Date: Units:	Federal SDWA MCLs ^a (µg/L)	In-Stream Water Quality Standards ^b (µg/L)	AF-67 AF6722 6.0 – 10.0 16-Jul-02 (µg/L)	AF-67 AF6732 11.0 – 15.0 16-Jul-02 (µg/L)	AF-67 AF6742 16.0 – 20.0 16-Jul-02 (µg/L)	AF-67 AF6752 21.0 – 25.0 16-Jul-02 (µg/L)	AF-67 AF6762 26.0 – 30.0 16-Jul-02 (µg/L)
VOLATILE ORGANIC COMP	POUNDS						
1,1,1-Trichloroethane	200	_	2 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane		10.8	2 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	2 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	_	_	2.2 =	0.97 J	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1.1 J	2.3 =	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	2 U	1 U	1 U	1 U	1 U
1,2-Dichloroethene	_	_	14.2 =	25.6 =	2 U	2 U	2 U
1,2-Dichloropropane	_	_	2 U	1 U	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	2 U	1 U	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	2 U	1 U	1 U	1 U	1 U
2-Butanone	_	_	10 U	5 U	5 U	5 U	5 U
2-Hexanone	_	_	10 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	10 U	5 U	5 U	5 U	5 U
Acetone		_	8.6 U	5 U	5 U	5 U	5 U
Benzene	5	71.28	2 U	1 U	1 U	1 U	1 U
Bromodichloromethane		_	2 U	1 U	1 U	1 U	1 U
Bromoform		360	2 U	1 U	1 U	1 U	1 U
Bromomethane	_	_	2 U	1 U	1 U	1 U	1 U
Carbon Disulfide	_	_	10 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	2 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	21,000	2 U	1 U	1 U	1 U	1 U
Chloroethane	_	_	2 U	1 U	1 U	1 U	1 U
Chloroform	_	470.8	2 U	1 U	1 U	1 U	1 U
Chloromethane	_	_	2 U	1 U	1 U	1 U	1 U
Dibromochloromethane	_	22	2 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	28,718	2 U	1 U	1 U	1 U	1 U
Methylene Chloride	_		10 U	5 U	5 U	5 U	5 U
Styrene	100		2 U	1 U	1 U	1 U	1 U
Tetrachloroethene	5	8.85	2 U	1 U	1 U	1 U	1 U
Toluene	1,000	200,000	2 U	1 U	1 U	1 U	1 U
Trichloroethene	5	80.7	107 =	746 =	1 U	1 U	1 U
Vinyl Chloride	2	525	2 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	_	6 U	3 U	3 U	3 U	3 U

U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

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

UJ Indicates the compound was not detected above an approximated sample quantitation limit.

J Indicates the value for the compound is an estimated value.

⁼ Indicates the compound was detected at the concentration reported.

Table VIII-I. Summary of July 2002 Groundwater Analytical Results (continued)

Well ID: Sample ID	Federal	In-Stream Water	AF-67 AF6772	AF-67 AF6782	AF-67 AF6792
Screened Interval (ft BGS): Sample Date:	$\frac{\mathbf{SDWA}}{\mathbf{MCLs}^a}$	Quality Standards ^b	31.0 – 35.0 16-Jul-02	36.0 – 40.0 16-Jul-02	41.0 – 45.0 16-Jul-02
Units:	MCLs (μg/L)	Standards (μg/L)	10-3u1-02 (μg/L)	10-3u1-02 (μg/L)	10-3u1-02 (μg/L)
VOLATILE ORGANIC COMP		(PS-)	(PB -)	(P8)	(r-8)
1,1,1-Trichloroethane	200		1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 U
1,1-Dichloroethene	7	3.2	1 U	1 U	1 U
1,2-Dichloroethane	5	98.6	1 U	1 U	1 U
1,2-Dichloroethene	_	_	2 U	2 U	2 U
1,2-Dichloropropane	_	_	1 U	1 U	1 U
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 U
2-Butanone	_	_	5 U	5 U	5 U
2-Hexanone	_	_	5 U	5 U	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 U
Acetone	_	_	5 U	5 U	5 U
Benzene	5	71.28	1 U	1 U	1 U
Bromodichloromethane	_	_	1 U	1 U	1 U
Bromoform	_	360	1 U	1 U	1 U
Bromomethane	_	_	1 U	1 U	1 U
Carbon Disulfide	_	_	5 U	5 U	5 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 U
Chlorobenzene	100	21,000	1 U	1 U	1 U
Chloroethane	_	_	1 U	1 U	1 U
Chloroform	_	470.8	1 U	1 U	1 U
Chloromethane	_	_	1 U	1 U	1 U
Dibromochloromethane	_	22	1 U	1 U	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 U
Methylene Chloride	_	_	5 U	5 U	5 U
Styrene	100	_	1 U	1 U	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 U
Toluene	1,000	200,000	1 U	1 U	1 U
Trichloroethene	5	80.7	1 U	1 U	1 U
Vinyl Chloride	2	525	1 U	1 U	1 U
Xylenes, Total	10,000	_	3 U	3 U	3 U

U.S. Environmental Protection Agency maximum contaminant level.

Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).

BGS Below ground surface.

MCL Maximum contaminant level.

SDWA Safe Drinking Water Act.

Laboratory Qualifiers

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

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= Indicates the compound was detected at the concentration reported.

EPA SAMPLE NO.

AF6312

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63882

Matrix: (soil/water) WATER Lab Sample ID: 63882003

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5U209

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. _____ Date Analyzed: 07/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CAS NO.	COMPOUND		ATION UNITS: ug/Kg) UG/L		Q
74-97-3	Chloromethane			1.0	ប
	Vinyl chloride			1.0	U
	Bromomethane_				บ
	Chloroethane				ט ו
75-35-4	1,1-Dichloroeth	vlene		1.0	U 🕽
	Acetone	.,		6.4	
75-15-0	Carbon disulfid	e		5.0	<u> </u>
75-09-2	Methylene chlor	ide		5.0	ט
	1,1-Dichloroeth				υ
	2-Butanone			5.0	י די
540-59-0	1,2-Dichloroeth	vlene (tot	al)	2.0	
67-66-3	Chloroform	7 2020 (000		1.0	
71-55-6	1,1,1-Trichloro	ethane		1.0	
56-23-5	Carbon tetrachl	oride			ט
	1,2-Dichloroeth			1.0	ŭ 🕨
	Benzene			0.92	
	Trichloroethyle	ne		1	Ŭ ,
79-01-6	1,2-Dichloropro	nane			Ū i
75-27-4	Bromodichlorome	thane			Ŭ []
10061-01.5-	cis-1,3-Dichlor	opropy ene		1.0	1
10001-01-5-	4-Methyl-2-pent	anone			Ŭ .
108-88-3		<u> </u>		2.4	
100-00-3	trans-1,3-Dichl	oronrony e	ne	1.0	ti i
79-00-5	1,1,2-Trichloro	ethane		1.0	
	2-Hexanone		——		υ []
197-10-0	Tetrachloroethy	Tene			ΰ
12/-10-4	Dibromochlorome	thane		1	ŭ
	Chlorobenzene				ŭ II
	Ethylbenzene				Ū
	Xylenes (total)				J E
100-42-5	Styrene			1.0	1 -
	Bromoform				υ I
79-34-5	1,1,2,2-Tetrach	loroethane		i i	บี
// Ja-J	1,1,2,2 10014011		 i		-

FORM I VOA

AF6322

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

COMPOUND

Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER

Lab Sample ID: 63880018

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 1U125

Level: (low/med) LOW

CAS NO.

Lab Code: N/A

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

CONCENTRATION UNITS: (uq/L or uq/Kq) UG/L

CAD NO.	COMPOUND (dg/ ii OI dg/	kg/ UG/II	Q	
74-87-3	Chloromethane	1.(U	,
	Vinyl chloride		O U	
74-83-9	Bromomethane		olŭ	
75-00-3	Chloroethane		O U	
75-35-4	1,1-Dichloroethylene	1 (ŭ ŭ	
67-64-1	Acetone	5 (
75-15-0	Carbon disulfide	5.	ט ט	
75-09-2	Methylene chloride	5.0		
75-34-3	1,1-Dichloroethane		ו עונ	
78-93-3	2-Butanone	5.0		
	1,2-Dichloroethylene (total)		Ď Ŭ	
67-66-3	Chloroform		ŭ l	
	1,1,1-Trichloroethane		טוס וו	
56-23-5	Carbon tetrachloride		Ď Ü	
107-06-2	1,2-Dichloroethane	1.0		
71-43-2	Benzene	5.6		
79-01-6	Trichloroethylene	1.0		
78-87-5	1,2-Dichloropropane	1.0		
75-27-4	Bromodichloromethane	1.0	1 1 1	
10061-01-5	cis-1,3-Dichloropropylene	1.0		
108-10-1	4-Methyl-2-pentanone	5.0		
108-88-3	Toluene	1.0 2.03		Enu En
10061-02-6	trans-1,3-Dichloropropylene	1.0		Foy Fol
79-00-5	1,1,2-Trichloroethane	1.0		
591-78-6	2-Hexanone	5.0		
127-18-4	Tetrachloroethylene	1.0		
124-48-1	Dibromochloromethane	1.0		
108-90-7	Chlorobenzene	1.0		
100-41-4	Ethylbenzene	3.5		
1330-20-7	Xylenes (total)	3.0		
100-42-5	Styrene	1.0		
75-25-2	Bromoform	1.0		
	1,1,2,2-Tetrachloroethane	1.0		
			I	

FORM I VOA

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EPA SAMPLE NO.

AF6332

SDG No.: 63880

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A

Matrix: (soil/water) WATER Lab Sample ID: 63880012

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1U119

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. _____ Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

	·····	
74-87-3Chloromethane	1.0	U U
75-01-4Vinyl chloride	1.0	
74-83-9Bromomethane	4	Ū
75-00-3Chloroethane	1	ΰ
75-35-41,1-Dichloroethylene	1.0	
67-64-1	5.0	
75-15-0Carbon disulfide	5.0	Ŭ
	5 2.3	
75-09-2Methylene chloride	1.0	
75-34-31,1-Dichloroethane		
78-93-32-Butanone	5.0	
540-59-01,2-Dichloroethylene (total)	2.0	
67-66-3Chloroform	1.0	
71-55-61,1,1-Trichloroethane	1.0	
56-23-5Carbon tetrachloride	1.0	
107-06-21,2-Dichloroethane	1.0	ן ע
71-43-2Benzene	1.0	
79-01-6Trichloroethylene	1.0	Ŭ
78-87-51,2-Dichloropropane	1.0	υ
75-27-4Bromodichloromethane	1.0	ט
10061-01-5cis-1,3-Dichloropropylene	1.0	ט וו
108-10-14-Methyl-2-pentanone	5.0	U
108-88-3Toluene	4 جسه ١٠٥	
10061-02-6trans-1,3-Dichloropropylene	1.0	11 107,106
79-00-51,1,2-Trichloroethane	1.0	ii k
591-78-62-Hexanone	5.0	
127-18-4Tetrachloroethylene	1.0	
124-48-1Dibromochloromethane	1.0	l f
108-90-7Chlorobenzene	1.0	1 1
100-41-4Ethylbenzene	1.0	1.3
1330-20-7Xylenes (total)	3.0	
100-42-5Styrene	1.0	7 5
75-25-2Bromoform		
	1.0	I I
79-34-51,1,2,2-Tetrachloroethane	1.0	Ŭ
		Y

FORM I VOA

DATA VALIDATION COPY

EPA SAMPLE NO.

AF6342

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A

SDG No.: 63880

Matrix: (soil/water) WATER

Lab Sample ID: 63880007

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 1U114

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: _____(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO. COMPOUND (ug/L or ug/F	Kg) UG/L	Q
74-87-3	1.0 UUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	Toy, Foly, F

FORM I VOA

DATA VALIDATION

EPA SAMPLE NO.

AF6352

SDG No.: 63880

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A

Matrix: (soil/water) WATER

Lab Sample ID: 63880017

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 1U124

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

CAS NO.

Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: COMPOUND (uq/L or uq/Kq) UG/L

67-64-1	-Vinyl chloride -Bromomethane -Chloroethane -1.1-Dichloroethylene	1.0 1.0 1.0 1.0	U U	u
75-01-4 74-83-9 75-00-3 75-35-4 67-64-1	-Vinyl chloride -Bromomethane -Chloroethane -1,1-Dichloroethylene	1.0 1.0 1.0 1.0	U U	
74-83-9 75-00-3 75-35-4 67-64-1	-Bromomethane -Chloroethane -1,1-Dichloroethylene -Acetone	1.0	U U	
75-00-3	-Chloroethane -1,1-Dichloroethylene -Acetone	1.0	U	
75-35-4	-1,1-Dichloroethylene	1.0		11
67-64-1	-Acetone	_ 1.0	1 1 7	1.1
75-15-0	-Carbon digulfide		10	11
	- Caroon oigniriaa	_ 5.0	Ŭ	П
75-09-2	Mother!	5.0	Ŭ	1
75-34-3	Methylene chloride	5 2.3	JB	u Fol, Fol
78-93-3	-1,1-Dichloroethane	1.0	Ŭ	u Fol, Fol
540 50 0	-2-Butanone	5.0		u
67.66 7	1,2-Dichloroethylene (total)		J	5
67-66-3	Chloroform	1.0		4
/1-33-6	1,1,1-Trichloroethane	1.0	U	1
107 06 0	Carbon tetrachloride	1.0	U	i l
71 42 0	1,2-Dichloroethane	1.0	U I	₽
71-43-2	Benzene	1.8		<u>-</u>
79-01-6	Trichloroethylene	20.9		=
/8-87-5	1,2-Dichloropropane	1.0	Ū	u
/5-2/-4	Bromodichloromethane	1.0		1
10061-01-5	cis-1,3-Dichloropropylene	I I	<u></u> ט	1
TOB-TO-T	4-Methyl-2-pentanone	5.0		<u>ل</u>
108-88-3	Toluene	2.0		4 FOY, FAT
10061-02-6	trans-1,3-Dichloropropylene	1.0	· ·	4 () (~)
/9-00-5	1.1.2-Trichloroethane	1.0		í .
391-/8-6	2 -Hexanone	5.0		
127-18-4	Tetrachloroethylene	1.0	TT	
124-48-1	Dibromochloromethane	1.0		
108-90-7	Chlorobenzene	1.0		,
100-41-4	Ethylbenzene	0.45		<u> </u>
1330-20-7	Xvlenes (total)	3.0		
100-42-5	Styrene	1.0		∢ :
75-25-2	Bromoform	1.0		1
79-34-5	1,1,2,2-Tetrachloroethane	1.0		
		2.01	, [1	<u> </u>

FORM I VOA

DATA VALIDATION

EPA SAMPLE NO.

AF6362

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER Lab Sample ID: 63880010

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1U117

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/L COMPOUND CAS NO. 1.0 U 74-87-3-----Chloromethane 1.0 U 75-01-4------Vinyl chloride 1.0 U 74-83-9-----Bromomethane 1.0 0 75-00-3-----Chloroethane 1.0 U 75-35-4----1,1-Dichloroethylene 5.0 U 67-64-1-----Acetone 5.0 U 75-15-0-----Carbon disulfide 2.0 JB FOI, FOG 75-09-2-----Methylene chloride 1.0 U 75-34-3-----1,1-Dichloroethane u 5.0 U 78-93-3----2-Butanone = 4.5 540-59-0----1,2-Dichloroethylene (total) u 1.0 0 67-66-3-----Chloroform 1.0 0 71-55-6-----1,1,1-Trichloroethane 1.0 U 56-23-5-----Carbon tetrachloride_ 1.0 0 107-06-2----1,2-Dichloroethane___ 3.0 71-43-2----Benzene 79-01-6-----Trichloroethylene 71.7 1.0 U 78-87-5-----1,2-Dichloropropane_ 1.0 U 75-27-4-----Bromodichloromethane 1.0 U 10061-01-5----cis-1,3-Dichloropropylene_ 5.0 U 108-10-1----4-Methyl-2-pentanone___ U FOY, FOB 1.0 0.51 J 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropylene 1.0 U 1.0 U 79-00-5-----1,1,2-Trichloroethane____ 5.0 U 591-78-6----2-Hexanone 127-18-4-----Tetrachloroethylene 1.0 U 1.0 0 124-48-1-----Dibromochloromethane 1.0 0 108-90-7-----Chlorobenzene 1.0 0 100-41-4-----Ethylbenzene 3.0 U 1330-20-7-----Xylenes (total) 1.0 0 100-42-5-----Styrene 1.0 U 75-25-2-----Bromoform 1.0 U 79-34-5----1,1,2,2-Tetrachloroethane

FORM I VOA

Duplicate EPA SAMPLE NO.

AF6394

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER Lab Sample ID: 63880006

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1Ull3

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CAS NO.	COMPOUND	CONCENTRA (ug/L or	 	Q	- 1
74-83-9 75-00-3 75-35-4 75-15-0 75-15-0 75-09-2 75-34-3 75-34-3 71-66-3 56-23-5 107-06-2 71-43-2 79-01-6 78-87-5 108-10-1 108-88-3 108-88-3 108-88-3 109-0-5 108-10-1 108-88-3 109-10-5 108-10-1 108-88-3 109-00-5 127-18-4 124-48-1 1330-20-7 100-42-5 75-25-2	-Vinyl chloride -Bromomethane -Chloroethane -1,1-Dichloroethy -Acetone -Carbon disulfide -Methylene chloride -1,1-Dichloroethat -2-Butanone -1,2-Dichloroethy -Chloroform -1,1,1-Trichloroethy -Chloroform -1,2-Dichloroethat -Benzene -Trichloroethylene -1,2-Dichloropropa -Bromodichloromethylene -1,2-Dichloropropa -Bromodichloromethylene -1,2-Dichloropropa -Bromodichloromethylene -1,1,2-Trichloroethylene -trans-1,3-Dichloroethylene -trachloroethylene -trachloroethylene -trachloroethylene -trachloroethylene -Ethylbenzene -Xylenes (total) -Styrene	de ne lene (tota thane ride ne e ane hane propylene none ropropylen thane	1.0 1.0 5.0 5.0 5.0 4.2 1.0 1.0 1.0 68.7	ממממממממממממ ממט מעם שם שם שם שם שם שם שם שם שם שם שם שם שם	U

FORM I VOA

OLMO3.0

EPA SAMPLE NO.

AF6372

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER Lab Sample ID: 63880011

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1U118

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

1.0 U 74-87-3-----Chloromethane 1.0 U 75-01-4-----Vinyl chloride 1.0 U 74-83-9-----Bromomethane 1.0 U 75-00-3-----Chloroethane 1.0 U 75-35-4-----1,1-Dichloroethylene 5.0 U 67-64-1-----Acetone 5.0 U 75-15-0-----Carbon disulfide 5.0 U 75-09-2-----Methylene chloride 1.0 U 75-34-3-----1,1-Dichloroethane 5.0 U 78-93-3----2-Butanone 2.0 U 540-59-0----1,2-Dichloroethylene (total) 1.0 U 67-66-3-----Chloroform 1.0 U 71-55-6-----1,1,1-Trichloroethane 1.0 U 56-23-5-----Carbon tetrachloride 1.0 U 107-06-2----1,2-Dichloroethane___ 1.4 71-43-2----Benzene 0.88 J 79-01-6-----Trichloroethylene 78-87-5-----1, 2-Dichloropropane 1.0 U 75-27-4-----Bromodichloromethane 1.0 U 10061-01-5----cis-1,3-Dichloropropylene_ 1.0 U 108-10-1----4-Methyl-2-pentanone 5.0 U 1.0 D-36 J U FOY, FOG 108-88-3-----Toluene 1.0 U 10061-02-6----trans-1,3-Dichloropropylene_ 1.0 U 79-00-5-----1,1,2-Trichloroethane 591-78-6----2-Hexanone 5.0 U 1.0 U 127-18-4-----Tetrachloroethylene

FORM I VOA

124-48-1-----Dibromochloromethane

79-34-5-----1,1,2,2-Tetrachloroethane

108-90-7-----Chlorobenzene 100-41-4-----Ethylbenzene

1330-20-7-----Xylenes (total)

100-42-5-----Styrene

75-25-2-----Bromoform

DATA VALIDATION COPY

1.0 U

1.0 U

3.0 U 1.0 U

1.0 0

1.0 0

0.64 J

EPA SAMPLE NO.

AF6382

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63882

Matrix: (soil/water) WATER Lab Sample ID: 63882001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5U207

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. _____ Date Analyzed: 07/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 25.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug	g/Kg) UG/L	Q
74-87-3	Chloromethane	25.0	
75-01-4	Vinyl chloride	25.0	
74-83-9	Bromomethane	25.0	
	Chloroethane	25.0	
	1,1-Dichloroethylene	25.0	U
67-64-1	Acetone	125	
75-15-0	Carbon disulfide	125	
75-09-2	Methylene chloride	125	U
75-34-3	1,1-Dichloroethane	25.0	ט 📗
78-93-3	2-Butanone	125	U 🖊
540-59-0	1,2-Dichloroethylene (total)	116	=
67-66-3	Chloroform	25.0	Ū L
	1,1,1-Trichloroethane	25.0	
56-23-5	Carbon tetrachloride	25.0	
107-06-2	1,2-Dichloroethane	25.0	
71-43-2	Benzene	25.0	
79-01-6	Trichloroethylene	1250	
78-87-5	·1,2-Dichloropropane	25.0	
75-27-4	Bromodichloromethane	25.0	
10061-01-5	cis-1,3-Dichloropropylene	25.0	
108-10-1	4-Methyl-2-pentanone	125	
108-88-3	Toluene	25.0	
10061-02-6	trans-1,3-Dichloropropylene	25.0	
79-00-5	1,1,2-Trichloroethane	25.0	
591-78-6	2-Hexanone	125	
	Tetrachloroethylene	25.0	
124-48-1	Dibromochloromethane	25.0	
108-90-7	Chlorobenzene	25.0	
100-41-4	Ethylbenzene	25.0	
1330-20-7	Xylenes (total)	75.0	
100-42-5	Styrene	25.0	
75-25-2	Bromoform	25.0	
	1,1,2,2-Tetrachloroethane	25.0	
,, ,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,1,2,2-lectachioroechane	25.0	ر ا ل

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EPA SAMPLE NO.

AF6392

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63882

Matrix: (soil/water) WATER Lab Sample ID: 63882005

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5U211

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. _____ Date Analyzed: 07/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 5.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTEDATION INITE.

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug		Q
75-01-4 74-83-9 75-00-3 75-00-3 75-35-4 75-15-0 75-15-0 75-34-3 75-34-3 75-66-3 71-55-6 71-55-6 71-43-2 79-01-6 78-87-5 75-27-4 108-10-1 108-88-3 10061-01-5 108-88-3 10061-02-6 79-00-5 591-78-6 127-18-4 124-48-1 108-90-7 100-41-4 1330-20-7 75-25-2	Carbon disulfMethylene chl1,1-Dichloroe2-Butanone1,2-DichloroeChloroform1,1,1-TrichloroeCarbon tetracl1,2-DichloroeBenzeneTrichloroethy1,2-DichloropBromodichloroeBromodichloroeTolueneTolueneTrichloroethy1,2-Trichloroethy1,1,2-Trichloroethy2-HexanoneTetrachloroetheDibromochloroetheChlorobenzeneEthylbenzene	thylene ide oride thane thylene (total) roethane hloride thane lene ropane methane oropropylene ntanone aloropropylene roethane nylene methane	25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	ממממממממממממ מממממ ממממממ

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DATA VALIDATION OLMO3.0 COPY

EPA SAMPLE NO.

AF6422

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER

Lab Sample ID: 63880009

Sample wt/vol: 5.000 (g/ml) ML Lab File ID:

1U116

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

CONCENTRATION UNITS:

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 1.0 U 74-87-3-----Chloromethane 75-01-4-----Vinyl chloride 1.0 U 74-83-9-----Bromomethane 1.0 U 75-00-3-----Chloroethane 1.0 U 75-35-4----1,1-Dichloroethylene 1.0 U 67-64-1-----Acetone 5.0 U 75-15-0-----Carbon disulfide 5.0 U 5 2-1 JB 75-09-2-----Methylene chloride U FOI, FOG 75-34-3-----1,1-Dichloroethane 1.010 78-93-3----2-Butanone 5.0 U 540-59-0----1,2-Dichloroethylene (total) 2.0 U 67-66-3-----Chloroform 1.0 U 71-55-6----1,1,1-Trichloroethane 1.0 U 56-23-5-----Carbon tetrachloride 1.0 U 107-06-2----1,2-Dichloroethane____ 1.0 | U 71-43-2-----Benzene 1.0 U 79-01-6-----Trichloroethylene 1.0 U 78-87-5----1,2-Dichloropropane 1.0 U 75-27-4-----Bromodichloromethane 1.0 U 10061-01-5----cis-1,3-Dichloropropylene 1.0 0 108-10-1-----4-Methyl-2-pentanone____ 5.0 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropylene U FOY, FOT 1.0 1.0 0 79-00-5-----1,1,2-Trichloroethane____ 1.0 U 591-78-6----2-Hexanone 5.0 U 127-18-4-----Tetrachloroethylene 1.0 U 124-48-1-----Dibromochloromethane 1.0 U 108-90-7-----Chlorobenzene 1.0 U 100-41-4----Ethylbenzene 1.0 0 1330-20-7-----Xylenes (total)____ 3.0 U 100-42-5-----Styrene 1.0 0 75-25-2-----Bromoform 1.0 0 79-34-5----1,1,2,2-Tetrachloroethane 1.0 0

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DATA VALIDATION COPY

OLMO3.0

EPA SAMPLE NO.

AF6432

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Case No.: N/A SAS No.: N/A SDG No.: 63880 Lab Code: N/A

Lab Sample ID: 63880014 Matrix: (soil/water) WATER

Lab File ID: 1U121 Sample wt/vol: 5.000 (g/ml) ML

Date Received: 07/19/02 Level: (low/med) LOW

Date Analyzed: 07/29/02 % Moisture: not dec.

Dilution Factor: 1.0 GC Column: DB-624 ID: 0.25 (mm)

Soil Aliquot Volume: ____(uL Soil Extract Volume: (uL)

CONCENTRATION UNITS: (uq/L or ug/Kg) UG/L COMPOUND CAS NO.

1.0 U 74-87-3-----Chloromethane 1.0 U 75-01-4-----Vinyl chloride 1.0 U 74-83-9-----Bromomethane_ 1.0 U 75-00-3------Chloroethane 1.0 U 75-35-4-----1,1-Dichloroethylene

67-64-1Acetone	5.0			
75-15-0Carbon disulfide	5.0	U	₩.	
75-09-2Methylene chloride	5 2.5	JΒ	U FOI, FOI	6
75-34-31,1-Dichloroethane	1.0		u	
78-93-32-Butanone	5.0		1	
540-59-01,2-Dichloroethylene (total)	2.0	U		
67-66-3Chloroform	1.0	U		
71-55-61,1,1-Trichloroethane	1.0	U	11	
56-23-5Carbon tetrachloride	1.0	U		
107-06-21,2-Dichloroethane	1.0	U		
71-43-2Benzene	1.0			
79-01-6Trichloroethylene	1.0		11	
	1.0		11	
78-87-51,2-Dichloropropane	1.0		- 11	
75-27-4Bromodichloromethane	1.0		- 11	
10061-01-5cis-1,3-Dichloropropylene	5.0		₩	
108-10-14-Methyl-2-pentanone	2.2		U FOY, FO	7
108-88-3Toluene	1.0			٠
10061-02-6trans-1,3-Dichloropropylene	1.0		17	
79-00-51,1,2-Trichloroethane	5.0			
591-78-62-Hexanone	1.0			
127-18-4Tetrachloroethylene	1.0			
124-48-1Dibromochloromethane	1.0			
108-90-7Chlorobenzene	1.0	-		
100-41-4Ethylbenzene	3.0			
1330-20-7Xylenes (total)	1.0]	
100-42-5Styrene	1.0			
75-25-2Bromoform				
79-34-51,1,2,2-Tetrachloroethane	1.0	Ŭ	1.	

FORM I VOA

79-34-5-----1,1,2,2-Tetrachloroethane

EPA SAMPLE NO.

AF6442

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER Lab Sample ID: 63880005

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1U112

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. _____ Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CAS NO. COMPOUND CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

C745 1VG.	CONFOUND (ug/L or ug	/kg) UG/L	Q
74-87-3	Chloromethane	1 /	o U U
75-01-4	Vinyl chloride		
74-83-9	Bromomethane	•	ט ט
75-00-3	Chloroethane		
75-35-4	1,1-Dichloroethylene		ט ט
67-64-1	Acetone		
75-15-0	Carbon disulfide	3.0	U
75-09-2	Methylene chloride	5 -2.	S TP IN SOL
1 75-34-3	1.1-Dichloroethane	1.0	
78-93-3	2-Butanone	= 0	
540-59-0	1,2-Dichloroethylene (total)	2.0	S F T
1 67-66-3	Chloroform	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	
56-23-5	Carbon tetrachloride	1.0	
107-06-2	1,2-Dichloroethane	1.0	
71-43-2	Benzene	1.0	
79-01-6	Trichloroethylene	6.7	
78-87-5	1,2-Dichloropropage	1.0	
1 75-27-4	Bromodichloromethane	1.0	
10061-01-5	cis-1.3-Dichloropropylene	1.0	
108-10-1	4-Methvl-2-pentanone	5.0	
1 108-88-3	Toluene	2.0	U F04, F07
10061-02-6	trans-1,3-Dichloropropylene	1.0	
/9-00-5	1,1,2-Trichloroethane TI	1.0	
591-78-6	2-Hexanone	5.0	
127-18-4	Tetrachloroethylene_	1.0	
124-48-1	Dibromochloromethane	1.0	
108-90-/	Chlorobenzene	1.0	ע
1230 20 7	Ethylbenzene	1.0	
100-42-5	Xylenes (total)	3.0	
75-25-2		1.0	
79-34-5	1 1 2 2 m	1.0	
,,,-,,-,	1,1,2,2-Tetrachloroethane	1.0	ע [
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FORM I VOA

DATA VALIDATION

EPA SAMPLE NO.

AF6452

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER Lab Sample ID: 63880019

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1U126

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. ____ Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug		Q	.,
75-01-4 74-83-9 75-00-3 75-35-4 67-64-1 75-15-0 75-34-3 75-34-3 75-34-3 71-55-6 56-23-5 107-06-2 71-43-2 79-01-6 78-87-5 108-87-5 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-90-7 124-48-1 1330-20-7 100-42-5 75-25-2	Carbon disulfice	de ride ride ride ride ride ride ride ri	5.0 1.0 1.0 1.0 1.0 1.0	ממממממם מממם מממממממממממ	U FOI, FOY, FOY

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DATA VALIDATION OLMO3.0 COPY

EPA SAMPLE NO.

AF6462

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER

Lab Sample ID: 63880016

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 1U123

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 74-87-3-----Chloromethane 1.0 U u 75-01-4-----Vinyl chloride 1.0 0 74-83-9-----Bromomethane 1.0 U 75-00-3-----Chloroethane 1.0 U 75-35-4----1,1-Dichloroethylene 1.0 U 67-64-1------Acetone 5.0 U 75-15-0-----Carbon disulfide 5.0 U 75-09-2-----Methylene chloride 5 2.0 JB U FOI, FOG 75-34-3----1,1-Dichloroethane 1.0 0 78-93-3----2-Butanone 5.0 U 540-59-0-----1,2-Dichloroethylene (total) 2.0 67-66-3------Chloroform 1.00 71-55-6-----1,1,1-Trichloroethane 1.0 U 56-23-5-----Carbon tetrachloride 1.0 U 107-06-2----1,2-Dichloroethane 1.0 U 71-43-2-----Benzene 1.0 0 79-01-6-----Trichloroethylene 31.2 78-87-5----1,2-Dichloropropane 1.0 U 75-27-4-----Bromodichloromethane 1.0 U 10061-01-5----cis-1,3-Dichloropropylene_ 1.0 U 108-10-1-----4-Methyl-2-pentanone_ 5.0 U 108-88-3-----Toluene 2.9 4 FOY. FOT 10061-02-6----trans-1,3-Dichloropropylene_ 1.0 0 79-00-5----1,1,2-Trichloroethane_ 1.0 U 591-78-6----2-Hexanone 5.0 U 127-18-4-----Tetrachloroethylene 1.0 0 124-48-1-----Dibromochloromethane 1.0 U 108-90-7-----Chlorobenzene 1.0 U 100-41-4-----Ethylbenzene 1.0 0 1330-20-7-----Xylenes (total) 3.0 U 100-42-5-----Styrene 1.0 U 75-25-2-----Bromoform 1.0 U 79-34-5----1,1,2,2-Tetrachloroethane 1.0 0

FORM I VOA

DATA VALIDATION COPY

EPA SAMPLE NO.

31.3

AF6472

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A

Case No.: N/A SAS No.: N/A

SDG No.: 63880

Matrix: (soil/water) WATER

Lab Sample ID: 63880013

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 1U120

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

FORM I VOA

EPA SAMPLE NO

AF6482

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER Lab Sample ID: 63880015

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1U122

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. ____ Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 74-87-3-----Chloromethane 1.0 0 75-01-4-----Vinyl chloride 1.0 U 74-83-9-----Bromomethane 1.0 U 75-00-3-----Chloroethane 1.0 0 75-35-4----1,1-Dichloroethylene 1.0 U 67-64-1-----Acetone 7.3 75-15-0-----Carbon disulfide 5.0 T 75-09-2-----Methylene chloride 5 2.2 JB 75-34-3-----1,1-Dichloroethane 1.0 0 78-93-3----2-Butanone 5 -2-6 J 540-59-0-----1,2-Dichloroethylene (total) 4 FOY, FO6 2.0 U 67-66-3-----Chloroform 1.0 U 71-55-6-----1,1,1-Trichloroethane 1.0 U 56-23-5-----Carbon tetrachloride 1.0 U 107-06-2----1,2-Dichloroethane 1.0 U 71-43-2-----Benzene 1.0 U 79-01-6----Trichloroethylene 1.1 78-87-5----1,2-Dichloropropane 1.0 0 75-27-4-----Bromodichloromethane 1.0 U 10061-01-5----cis-1,3-Dichloropropylene_ 1.0 U 108-10-1-----4-Methyl-2-pentanone 5.0 U 108-88-3-----Toluene FOX FOS 7.0 10061-02-6----trans-1,3-Dichloropropylene 1.0 0 79-00-5----1,1,2-Trichloroethane 1.0 0 591-78-6----2-Hexanone 5.0 U 127-18-4----Tetrachloroethylene 1.0 U 124-48-1-----Dibromochloromethane___ 1.0 U 108-90-7-----Chlorobenzene 1.0 U 100-41-4----Ethylbenzene 1.0 U 1330-20-7-----Xylenes (total) 3.0 U 100-42-5-----Styrene 1.0 0 75-25-2-----Bromoform 1.0 0 79-34-5----1,1,2,2-Tetrachloroethane 1.0 U

FORM I VOA

EPA SAMPLE NO.

1

AF6492

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER Lab Sample ID: 63880008

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1U115

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. _____ Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

78-93-32-Butanone 540-59-01,2-Dichloroethylene (total) 67-66-3Chloroform 71-55-61,1,1-Trichloroethane 56-23-5Carbon tetrachloride 107-06-21,2-Dichloroethane 71-43-2Benzene 79-01-6Trichloroethylene 78-87-51,2-Dichloropropane 75-27-4Bromodichloromethane 1.0 U 75-27-4Bromodichloromethane 1.0 U 70-01-5	F01, F06

FORM I VOA

EPA SAMPLE NO.

AF6512

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER Lab Sample ID: 63879011

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5T439

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. _____ Date Analyzed: 07/26/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 74-87-3-----Chloromethane 1.0 U 75-01-4-----Vinyl chloride_ 1.0 U 74-83-9-----Bromomethane 1.0 0 75-00-3-----Chloroethane 1.0 U 75-35-4----1,1-Dichloroethylene 1.0 U 67-64-1------Acetone 75-15-0------Carbon disulfide U FOY, FOR 8.8 5.0 Ū 75-09-2-----Methylene chloride 5.0 U 75-34-3----1,1-Dichloroethane_ 1.0 U 78-93-3----2-Butanone 5.0 U 540-59-0----1,2-Dichloroethylene (total) 2.0 U 67-66-3-----Chloroform 1.0 U 71-55-6----1,1,1-Trichloroethane 1.0 U 56-23-5-----Carbon tetrachloride___ 1.0 U 107-06-2----1,2-Dichloroethane___ 1.0 U 71-43-2-----Benzene 1.0 U 79-01-6-----Trichloroethylene 1.0 U 78-87-5----1,2-Dichloropropane 1.0 U 75-27-4-----Bromodichloromethane 10061-01-5----cis-1,3-Dichloropropylene 1.0 U 108-10-1-----4-Methyl-2-pentanone 5.0 U 108-88-3-----Toluene 1.9 10061-02-6----trans-1,3-Dichloropropylene 1.0 0 u 79-00-5----1,1,2-Trichloroethane 1.0 U 591-78-6----2-Hexanone 5.0 U 127-18-4----Tetrachloroethylene 1.0 U 124-48-1-----Dibromochloromethane____ 1.0 U 108-90-7-----Chlorobenzene 1.0 0 100-41-4-----Ethylbenzene 1.0 U 1330-20-7-----Xylenes (total)____ 3.0 U 100-42-5-----Styrene 1.0 U 75-25-2-----Bromoform 1.0 0 79-34-5----1,1,2,2-Tetrachloroethane 1.0 U DATA VALIDATION

FORM I VOA

OLM03.0

COPY

EPA SAMPLE NO.

AF6522

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER Lab Sample ID: 63880001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1U210

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. Date Analyzed: 07/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

Q (ug/L or ug/Kg) UG/L CAS NO. COMPOUND u 1.0|U 74-87-3-----Chloromethane 1.0 U 75-01-4-----Vinyl chloride 1.0 0 74-33-9-----Bromomethane____ 1.0 0 75-00-3-----Chloroethane 1.0 U 75-35-4----1,1-Dichloroethylene 5.0 U 67-64-1-----Acetone 5.0 U 75-15-0-----Carbon disulfide 5.0 U 75-09-2-----Methylene chloride 1.0 U 75-34-3-----1,1-Dichloroethane__ 5.0 U 78-93-3----2-Butanone 2.0 U 540-59-0----1,2-Dichloroethylene (total) 1.0 U 67-66-3-----Chloroform 1.0 U 71-55-6----1,1,1-Trichloroethane___ 1.0 U 56-23-5-----Carbon tetrachloride 1.0 U 107-06-2----1,2-Dichloroethane___ 1.0 U 71-43-2----Benzene 1.0 U 79-01-6-----Trichloroethylene 1.0 0 78-87-5-----1,2-Dichloropropane__ 1.0 U 75-27-4-----Bromodichloromethane 1.0 U 10061-01-5----cis-1,3-Dichloropropylene___ 5.0 U 108-10-1----4-Methyl-2-pentanone U F04, F07 1.1 108-88-3-----Toluene 1.0 0 10061-02-6----trans-1,3-Dichloropropylene 1.0 U 79-00-5-----1,1,2-Trichloroethane _____ 5.0 U 591-78-6----2-Hexanone 1.0 U 127-18-4-----Tetrachloroethylene 1.0 U 124-48-1-----Dibromochloromethane 1.0 U 108-90-7-----Chlorobenzene 1.0 U 100-41-4-----Ethylbenzene 3.0 U 1330-20-7------Xylenes (total) 1.0 0 100-42-5-----Styrene 1.0 U 75-25-2-----Bromoform 1.0 U 79-34-5----1,1,2,2-Tetrachloroethane

FORM I VOA

EPA SAMPLE NO.

AF6532

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER Lab Sample ID: 63879014

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5T442

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. Date Analyzed: 07/26/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug	/Kg) UG/L Q
74-87-3	Chloromethane	1.0 U
75-01-4	Vinyl chloride	1.0 U
1 74-83-9	Bromomethane	1.0 U
75-00-3	Chloroethane 1,1-Dichloroethylene	1.0 0
75-35-4	1,1-Dichloroethylene	1.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon disulfide	- 1
1 75-09-2	Methylene chloride	5.0 U
/	i, i-bichioloechane	1.0 0
78-93-3	2-Butanone	1 5.0 U
540-59-0	1,2-Dichloroethylene (total)	2.0 U
1 67-66-3	Chloroform	1 0 17
71-55-6	1.1.1-Trichloroethane	ו דו ח ר
56-23-5	Carbon tetrachloride	1.0 U
107-06-2	1,2-Dichloroethane	1.00
71-43-2	Benzene	1 0 1
79-01-6	Trichloroethylene	1.0 0
78-87-5	1,2-Dichloropropane	1.0 U
75-27-4	Bromodichloromethane	1.0 U
10061-01-5	cis-1,3-Dichloropropylene	1.0 0
108-10-1	4-Methyl-2-pentanone	5.0 0
1 108-88-3	Toluene	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
10061-02-6	trans-1,3-Dichloropropylene	1.0 0
79-00-5	1,1,2-Trichloroethane	1.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethylene	1.0 0
124-48-1	Dibromochloromethane	1.0 0
108-90-7	Chlorobenzene	1.0 0
100-41-4	Ethylbenzene	1.0 0
1330-20-7	Xylenes (total)	3.0 U
100-42-5	Styrene	
75-25-2	Bromoform	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1.0 0
		+

FORM I VOA

EPA SAMPLE NO.

AF6542

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER Lab Sample ID: 63879017

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5T445

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. Date Analyzed: 07/26/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO. COMPOUND 0 74-87-3-----Chloromethane 1.0 U u 75-01-4-----Vinyl chloride 1.0 U 74-83-9-----Bromomethane 1.0 0 75-00-3------Chloroethane 1.0 U 75-35-4----1,1-Dichloroethylene 1.0 U 67-64-1-----Acetone 5.0 U 75-15-0-----Carbon disulfide 5.0 U 75-09-2-----Methylene chloride 5.0 U 75-34-3-----1,1-Dichloroethane_ 1.0 U 78-93-3----2-Butanone 5.0 U 540-59-0----1,2-Dichloroethylene (total) 2.0 0 67-66-3-----Chloroform 1.0 U 71-55-6----1,1,1-Trichloroethane 1.0 U 56-23-5-----Carbon tetrachloride 1.0 U 107-06-2----1,2-Dichloroethane___ 1.0 U 71-43-2-----Benzene 1.0 U 79-01-6-----Trichloroethylene 2.4 78-87-5----1,2-Dichloropropane_ 1.0 | 0 75-27-4-----Bromodichloromethane 1.0 0 10061-01-5----cis-1,3-Dichloropropylene_ 1.0 U 108-10-1----4-Methyl-2-pentanone 5.0 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropylene 0.74 J 1.0 U 79-00-5----1,1,2-Trichloroethane____ 1.0 0 591-78-6----2-Hexanone 5.0 U 127-18-4-----Tetrachloroethylene 1.0 0 124-48-1-----Dibromochloromethane 1.0 0 108-90-7-----Chlorobenzene____ 1.0 U 100-41-4-----Ethylbenzene 1.0 U 1330-20-7-----Xylenes (total)____ 3.0 U 100-42-5-----Styrene 1.0 U 75-25-2----Bromoform 1.0 U 79-34-5----1,1,2,2-Tetrachloroethane 1.0 0

FORM I VOA

DATA VALIDATION COPY

EPA SAMPLE NO.

AF6552

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A

Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER

Lab Sample ID: 63879012

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 5T440

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/26/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____ (uL

CONCENTRATION UNITS: CAS NO. (ug/L or ug/Kg) UG/L COMPOUND

	(25, 2 02 25,	,,	~
74-87-3	Chloromethane	1.0 U	L
75-01-4	Vinyl chloride	1.0 0	
74-83-9	Bromomethane	1.0 U	
75-00-3	Chloroethane	1.0 0	
75-35-4	1,1-Dichloroethylene	1.0 0	
67-64-1		5.0 0	
	Carbon disulfide	5.0 0	
	Methylene chloride	5.0 0	
75-34-3	1,1-Dichloroethane	1.0 0	
70-02-3	2-Butanone	5.0 0	
F40-E9-0	1,2-Dichloroethylene (total)	0.38 J	
67 66 3	Chloroform	1.0 U	
	1,1,1-Trichloroethane	1.0 U	
56-23-5	Carbon tetrachloride	1.0 U	
107-06-2	1,2-Dichloroethane	1.0 U	
71-43-2	Pongono	1.0 U	
79-01-6	Trichloroethylene	3.0	-
79 07 5	1,2-Dichloropropane	1.0 0	
76-07-3	Bromodichloromethane	1.0 U	
10001 01 5	Bromodichioromethane	1.0 U	
10001-01-5	cis-1,3-Dichloropropylene		
108-10-1	4-Methyl-2-pentanone	5.0 0	
108-88-3	Toluene	0.47 J	
10061-02-6	trans-1,3-Dichloropropylene	1.0 U	
/9-00-5	1,1,2-Trichloroethane	1.0 U	
591-/8-6	2-Hexanone	5.0 U	
12/-18-4	Tetrachloroethylene	1.0 U	
124-48-1	Dibromochloromethane	1.0 U	
108-90-/	Chlorobenzene	1.0 U	
100-41-4	Ethylbenzene	1.0 U	
1330-20-/	Xylenes (total)	3.0 U	
100-42-5	styrene	1.0 U 1.0 U	
75-25-2	Bromoform 1,1,2,2-Tetrachloroethane	1.0 U	

FORM I VOA

DATA VALIDATION OLMO3.0

Duplicate

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AF6554

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER Lab Sample ID: 63879016

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5T444

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. ____ Date Analyzed: 07/26/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 74-87-3-----Chloromethane U 1.0 0 75-01-4-----Vinyl chloride 1.010 74-83-9-----Bromomethane 1.0 U 75-00-3-----Chloroethane 1.0 U 75-35-4-----1,1-Dichloroethylene 1.0 U 67-64-1------Acetone 5.0 U 75-15-0-----Carbon disulfide 5.0 U 75-09-2----Methylene chloride_ 5.0 U 75-34-3-----1,1-Dichloroethane 1.0 0 78-93-3----2-Butanone 5.0 U 540-59-0----1,2-Dichloroethylene (total) 0.37 J 67-66-3-----Chloroform 1.0 U 71-55-6----1,1,1-Trichloroethane_ 1.0 U 56-23-5-----Carbon tetrachloride 1.0 U 107-06-2----1,2-Dichloroethane 1.0 U 71-43-2----Benzene 1.0 U 79-01-6-----Trichloroethylene 3.0 78-87-5----1,2-Dichloropropane 1.0 U 75-27-4-----Bromodichloromethane 1.0 U 10061-01-5----cis-1,3-Dichloropropylene 1.0 0 108-10-1----4-Methyl-2-pentanone____ 5.0 U 108-88-3-----Toluene 0.51 10061-02-6----trans-1,3-Dichloropropylene 1.0 79-00-5-----1,1,2-Trichloroethane_ 1.0 0 591-78-6----2-Hexanone_ 5.0 U 127-18-4-----Tetrachloroethylene 1.0 U 124-48-1-----Dibromochloromethane 1.0 U 108-90-7-----Chlorobenzene 1.0 U 100-41-4-----Ethylbenzene 1.0 U 1330-20-7-----Xylenes (total)___ 3.0 U 100-42-5-----Styrene 1.0 U 75-25-2-----Bromoform 1.0 0 79-34-5-----1,1,2,2-Tetrachloroethane 1.0 U

FORM I VOA

DATA VALIDATION OLMO3.0 COPY

EPA SAMPLE NO.

AF6562

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A

Case No.: N/A SAS No.: N/A

SDG No.: 63879

Matrix: (soil/water) WATER

Lab Sample ID: 63879013

Sample wt/vol: 5.000 (g/ml) ML

5T441 Lab File ID:

Level: (low/med) LOW

Date Received: 07/19/02 Date Analyzed: 07/26/02

% Moisture: not dec.

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: Q (ug/L or ug/Kg) UG/L COMPOUND CAS NO. 1.0 U u 74-87-3-----Chloromethane 1.0 U 75-01-4------Vinyl chloride_ 1.0 U 74-83-9-----Bromomethane_ 1.0 U 75-00-3-----Chloroethane 1.0 U 75-35-4-----1,1-Dichloroethylene 5.0 U 67-64-1-----Acetone 5.0 U 75-15-0-----Carbon disulfide 5.0 U 75-09-2-----Methylene chloride 1.010 75-34-3----1,1-Dichloroethane_ 5.0 U 78-93-3----2-Butanone 2.0 U 540-59-0----1,2-Dichloroethylene (total) 1.0 U 67-66-3-----Chloroform 1.0 U 71-55-6-----1,1,1-Trichloroethane_ 1.0 0 56-23-5-----Carbon tetrachloride___ 1.0 U 107-06-2----1,2-Dichloroethane____ 1.0 U 71-43-2-----Benzene 1.0 0 79-01-6-----Trichloroethylene 1.0 U 78-87-5----1,2-Dichloropropane_ 1.0 U 75-27-4-----Bromodichloromethane_ 10061-01-5----cis-1,3-Dichloropropylene_ 1.0 U 5.0 U 108-10-1-----4-Methyl-2-pentanone____ 0.43 J 108-88-3------Toluene 10061-02-6-----trans-1,3-Dichloropropylene 1.0 U 1.0 U 79-00-5----1,1,2-Trichloroethane____ 5.0 U 591-78-6----2-Hexanone 1.0 U 127-18-4-----Tetrachloroethylene 1.0 U 124-48-1-----Dibromochloromethane 1.0 U 108-90-7-----Chlorobenzene 1.0 U 100-41-4-----Ethylbenzene 3.0 U 1330-20-7-----Xylenes (total)___ 1.0 U 100-42-5-----Styrene 1.0 0 75-25-2-----Bromoform 1.0 U 79-34-5-----1,1,2,2-Tetrachloroethane_

FORM I VOA

DATA VALIDATION COPY

EPA SAMPLE NO.

AF6572

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

SDG No.: 63879 Lab Code: N/A Case No.: N/A SAS No.: N/A

Lab Sample ID: 63879010 Matrix: (soil/water) WATER

Lab File ID: 5T438 Sample wt/vol: 5.000 (g/ml) ML

Date Received: 07/19/02 Level: (low/med) LOW

Date Analyzed: 07/26/02 % Moisture: not dec.

Dilution Factor: 1.0 GC Column: DB-624 ID: 0.25 (mm)

Soil Aliquot Volume: ____(uL Soil Extract Volume:____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

1

CAS NO.	COMPOUND (ug/L or ug/	/Kg) UG/L Q
74-87-3	Chloromethane	1.0 U
74-83-9	Bromomethane	1.0 U
	Chloroethane !	1.0 U
75-35-4	1,1-Dichloroethylene	1.0 U
		5.0 U
75-15-0	Carbon disulfide	5.0 U
75-09-2	Methylene chloride	5.0 U
75-34-3	1,1-Dichloroethane	1.0 U 5.0 U
	0 0	
540-59-0	1,2-Dichloroethylene (total)	2.00
~~ ~~ ~		1 1
73 EE . 6	1 1 1-Trichloroethane	1.0 U
56-23-5	Carbon tetrachloride	1.0 U 1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
71 _43 _ 9 +	Benzene	
79-01-6	Trichloroethylene	1.0 0
78-87-5	1,2-Dichloropropane	1.0 U
75-27-4	Bromodichloromethane	
10061-01-5-	cis-1,3-Dichloropropylene	5.00
108-10-1	4-Methyl-2-pentanone	1.0 U
100 00 3	Toluene	
10061-02-6-	trans-1.3-Dichioropropylene	T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
79-00-5	1,1,2-Trichioroethane	5.0 U
591-78-6	2-Hexanone	1.0 U
127-18-4	Tetrachloroethylene	1.00
124-48-1	Dibromochtoromethane	1.0 0
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	3.0 U
1330-20-7	Xylenes (total)	1.00
100-42-5	Styrene	1.0 U
75-25-2	Bromoform	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	.

FORM I VOA

DATA VALIDATION

EPA SAMPLE NO.

AF6582

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER

Lab Sample ID: 63879009

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5T437

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec. ___

Date Analyzed: 07/26/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

75-01-4 74-83-9 75-00-3 75-35-4 75-15-0 75-34-3 75-34-3 75-66-3 71-55-6 56-23-5 107-06-2 71-43-2 79-01-6 78-87-5 108-88-3 108-88-3	Carbon disulfideMethylene chloride1,1-Dichloroethane2-Butanone1,2-Dichloroethylene (total)Chloroform1,1-TrichloroethaneCarbon tetrachloride1,2-DichloroethaneBenzeneTrichloroethylene1,2-DichloropropaneBromodichloromethaneBromodichloromethaneCis-1,3-Dichloropropylene4-Methyl-2-pentanone	1.0 1.0 1.0 1.0 1.0 5.0 5.0 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	ממממממממממממממממממממממממממממממממממממממ
540-59-0 67-66-3 71-55-6	1,2-Dichloroethylene (total)Chloroform1,1,1-Trichloroethane	2.0 1.0 1.0	ם ט ט
107-06-2 71-43-2 79-01-6 78-87-5	1,2-Dichloroethane	1.0 1.0 1.0	ם ע
10061-01-5	cis-1,3-Dichloropropylene	1.0	ט ט
79-00-5 591-78-6 127-18-4 124-48-1	1,1,2-Trichloroethane	1.0 5.0 1.0 1.0	ט ט ט
100-41-4		1.0 1.0 3.0 1.0	ם מ
	Bromoform 1,1,2,2-Tetrachloroethane	1.0	<u>п</u>

FORM I VOA

AF6592

EPA SAMPLE NO.

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Case No.: N/A SAS No.: N/A

SDG No.: 63879

Matrix: (soil/water) WATER

Lab Sample ID: 63879008

Sample wt/vol: 5.000 (g/ml) ML

Lab Code: N/A

Lab File ID: 5U111

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/29/02

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

GC Column: DB-624 ID: 0.25 (mm)

Soil Aliquot Volume:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L CAS NO. COMPOUND

	1.0	TT IT	A05,A03
74-87-3Chloromethane	1.0	Ŭ ,	1/1
75-01-4Vinyl chloride	1.0		1 /
75-00-3Chloroethane	1.0	1 4	
75-00-3Chioroethalene	1.0	1 14	1 1
75-35-41,1-Dichloroethylene	19.4	क	FOYFO
67-64-1Acetone	5.0		1 / /
75-15-0Carbon disulfide	5.0	TT	1 1
75-09-2Methylene chloride	1.0	111	1 /
75-34-31,1-Dichloroethane	1.0 5.3	计计	1,F0%F0
78-93-32-Butanone	2.0	<u>U</u> W	' '
540-59-01, 2-Dichloroethylene (total)	1.0		1 1
67-66-3Chloroform	1.0		1 1
71-55-61,1,1-Trichloroethane	1.0		
56-23-5Carbon tetrachloride	1.0		
107-06-21,2-Dichloroethane	0.38		
71-43-2Benzene	1.0	1 7 .	-
79-01-6Trichloroethylene	1.0		1 1
78-87-51,2-Dichloropropane	1.0] [
75-27-4Bromodichloromethane	1.0		11
10061-01-5cis-1,3-Dichloropropylene	5.0	17	1 1
108-10-14-Methyl-2-pentanone	1.2		
108-88-3Toluene	1.0		-
10061-02-6trans-1,3-Dichloropropylene_	1.0		
79-00-51,1,2-Trichloroethane	5.0		
591-78-62-Hexanone	1.0		
127-18-4Tetrachloroethylene	1.0		
124-48-1Dibromochloromethane	1.0		
108-90-7Chlorobenzene			
100-41-4Ethylbenzene	1.0		
1330-20-7Xylenes (total)	0.27		.
100-42-5Styrene	1.0		
75-25-2Bromoform		1 - 11	
79-34-51,1,2,2-Tetrachloroethane	1.0		1 1
	l	I \ \	4 4

FORM I VOA

DATA VALIDATION COPY

EPA SAMPLE NO.

AF6612

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER

Lab Sample ID: 63880020

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 1U213

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/30/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:

CAS NO. COMPOUND

(ug/L or ug/Kg) UG/L

Q

			1
74-87-3Chloromethane	1.0	U	u
75-01-4Vinyl chloride	1.0	U	1
74-83-9Bromomethane	1.0	U	11
75-00-3Chloroethane	1.0	U	
75-35-41,1-Dichloroethylene	5 ^{1.0}	U	1
67-64-1Acetone	52.1	J	u Foy, Fol
75-15-0Carbon disulfide	5.0	U	u
75-09-2Methylene chloride		J	5
75-34-31,1-Dichloroethane	1.0	Ū	u
78-93-32-Butanone	5.0		
540-59-01,2-Dichloroethylene (total)	2.0		,
67-66-3Chloroform	1.0	1	
71-55-61,1,1-Trichloroethane	1.0	_	11
71-33-61,1,1-111CillOfOctifale	1.0	-	11
56-23-5Carbon tetrachloride	1.0	_	
107-06-21,2-Dichloroethane	1.0		
71-43-2Benzene	1.0	•] [
79-01-6Trichloroethylene	1.0		
78-87-51,2-Dichloropropane		ŀ	11
75-27-4Bromodichloromethane	1.0		
10061-01-5cis-1,3-Dichloropropylene	1.0		
108-10-14-Methyl-2-pentanone	5.0		U Foy, FOT
108-88-3Toluene	3.4		4 10, 101
10061-02-6trans-1,3-Dichloropropylene_	1.0	l .	u
79-00-51,1,2-Trichloroethane	1.0		
591-78-62-Hexanone	5.0	Ū	11
127-18-4Tetrachloroethylene	1.0	l]]
124-48-1Dibromochloromethane	1.0		
108-90-7Chlorobenzene	1.0	-	
100-41-4Ethylbenzene	1.0	1 -	11
1330-20-7Xylenes (total)	3.0	Ŭ	
100-42-5Styrene	1.0	Ŭ	
75-25-2Bromoform	1.0	Ŭ	
79-34-51,1,2,2-Tetrachloroethane	1.0	U	V
			T

FORM I VOA

DATA VALIDATION

EPA SAMPLE NO.

AF6622

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A

SDG No.: 63882

Matrix: (soil/water) WATER

Lab Sample ID: 63882004

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 5U210

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/30/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____ (uL

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 74-87-3-----Chloromethane 1.0 U 75-01-4-----Vinyl chloride 1.0 U 74-83-9-----Bromomethane 1.0 U 75-00-3-----Chloroethane 1.0 U 75-35-4----1,1-Dichloroethylene 1.0 U 67-64-1------Acetone 16.7 75-15-0-----Carbon disulfide 5.0 \\overline{U} 75-09-2----Methylene chloride 5.0 U 75-34-3----1,1-Dichloroethane 1.0 U 78-93-3----2-Butanone 5.0 U 540-59-0----1,2-Dichloroethylene (total) 15.9 67-66-3-----Chloroform 1.0 0 71-55-6----1,1,1-Trichloroethane 1.0 U 56-23-5-----Carbon tetrachloride 1.0 U 107-06-2----1,2-Dichloroethane 1.0 U 71-43-2-----Benzene 0.40 J 79-01-6----Trichloroethylene 1.0 0 78-87-5----1,2-Dichloropropane 1.0 U 75-27-4-----Bromodichloromethane 1.0 U 10061-01-5----cis-1,3-Dichloropropylene 1.0 U 108-10-1----4-Methyl-2-pentanone 5.0 U 108-88-3-----Toluene 4.1 10061-02-6----trans-1,3-Dichloropropylene 1.0 0 79-00-5----1,1,2-Trichloroethane 1.0 U 591-78-6----2-Hexanone 5.0 U 127-18-4----Tetrachloroethylene 1.0 U 124-48-1-----Dibromochloromethane 1.0 U 108-90-7-----Chlorobenzene 1.0 U 100-41-4----Ethylbenzene_ 1.0 U 1330-20-7-----Xylenes (total) 3.0 U 100-42-5-----Styrene 1.0 U 75-25-2-----Bromoform 1.0 U 79-34-5----1,1,2,2-Tetrachloroethane 1.0 0

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EPA SAMPLE NO.

AF6632

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63882

Matrix: (soil/water) WATER Lab Sample ID: 63882006

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5U212

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. ____ Date Analyzed: 07/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CAS NO.	COMPOUND	CONCENTRATI	 	Q
75-01-4 74-83-9 75-00-3 75-35-4 75-15-0 75-34-3 75-34-3 75-34-3 75-6-3 71-55-6 71-55-6 71-43-2 79-01-6 78-87-5 108-10-1 108-10-1-5 108-88-3 10061-02-6 79-00-5 108-88-3 10061-02-6 79-00-5 127-18-4 124-48-1 124-48-1 1330-20-7 100-42-5 75-25-2	Carbon disulfidMethylene chlor1,1-Dichloroeth2-Butanone1,2-DichloroethChloroform1,1,1-TrichloroCarbon tetrachloroeth1,2-Dichloroeth1,2-DichloroethBenzeneTrichloroethylen1,2-DichloropropBromodichloromecis-1,3-Dichloroethylentrans-1,3-Dichloroethylentrans-1,3-Dichloroethylentrans-1,3-Dichloroethylentrans-1,3-Dichloroethylentrans-1,3-Dichloroethylentrachloroethylen	e ide ane ylene (total) ethane oride ane ne pane thane oropylene ethane oropylene ethane	1.0 0.74 1.0 1.0 1.0 5.0 5.0 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	

FORM I VOA

EPA SAMPLE NO.

AF6642

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63882

Matrix: (soil/water) WATER Lab Sample ID: 63882002

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5U208

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. _____ Date Analyzed: 07/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/		Q
75-01-4 74-83-9 75-00-3 75-35-4 67-64-1 75-15-0 75-34-3 75-34-3 75-66-3 56-23-5 107-06-2 71-43-2 79-01-6 78-87-5 108-10-1 108-88-3 10061-01-5 108-88-3 109-00-5 127-18-4 124-48-1 108-90-7 100-41-4 1330-20-7 75-25-2	Carbon disulfiMethylene chlo1,1-Dichloroet2-Butanone1,2-DichloroetCarbon tetrach1,2-DichloroetBenzeneTrichloroethyle1,2-DichloroproBromodichloromeCis-1,3-DichloroethyleTolueneTolueneTolueneTetrachloroethyle2-HexanoneTetrachloroethyleChlorobenzeneEthylbenzene	hylene de ride hane nylene (total) cethane loride hane ene copane ethane copropylene canone coropropylene cethane cethane	7	1.00 1.00

FORM I VOA

EPA SAMPLE NO.

AF6652

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Matrix: (soil/water) WATER Lab Sample ID: 63880003

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 1U212

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. _____ Date Analyzed: 07/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

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EPA SAMPLE NO.

AF6662

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63880

Lab Sample ID: 63880002 Matrix: (soil/water) WATER

Lab File ID: 1U211 Sample wt/vol: 5.000 (g/ml) ML

Date Received: 07/19/02 Level: (low/med) LOW

Date Analyzed: 07/30/02 % Moisture: not dec.

Dilution Factor: 1.0 GC Column: DB-624 ID: 0.25 (mm)

Soil Aliquot Volume: ____(uL Soil Extract Volume: ____(uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug,	ON UNITS: /Kg) UG/L		Q	• 1
75-01-4 74-83-9 75-00-3 75-00-3 75-35-4 75-15-0 75-15-0 75-34-3 75-34-3 71-55-6 71-55-6 71-43-2 79-01-6 78-87-5 75-27-4 108-10-1 108-88-3 108-88-3 108-88-3 10061-02-6 79-00-5 108-90-7 124-48-1 124-48-1 1330-20-7 100-42-5 75-25-2	Carbon disulfideMethylene chlori1,1-Dichloroethe2-Butanone1,2-DichloroethyChloroform1,1,1-TrichloroeCarbon tetrachloroetheBenzeneTrichloroethylen1,2-DichloropropBromodichlorometcis-1,3-Dichloroethetrans-1,3-DichloroetheToluenetrans-1,3-DichloroetheToluenetrans-1,3-DichloroethylenToluenetrans-1,3-DichloroethylenToluenetrans-1,3-DichloroethylenTolueneTetrachloroethylenTetrachloroethylenChlorobenzeneEthylbenzeneXylenes (total)	de de de de de de de de de de de de de d		1.0000000000000000000000000000000000000	מממממממם מסמממממממממממממממ	U F04, F07

FORM I VOA

DATA VALIDATION OLMO3.0 COPY

EPA SAMPLE NO.

AF6672

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Lab Sample ID: 63879018 Matrix: (soil/water) WATER

Lab File ID: 5T446 Sample wt/vol: 5.000 (g/ml) ML

Date Received: 07/19/02 Level: (low/med) LOW

% Moisture: not dec. Date Analyzed: 07/26/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: _____(uL

CAS NO.			
CID III.	COMPOUND ((ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane		1.0 U
75-01-4	Vinyl chloride		1.0 U
74-83-9	Bromomethane		1.0 U
	Chloroethane		1.0 U
75-35-4	1,1-Dichloroethyle	ene	1.0 0
67-64-1	Acetone		5.0 U
	Carbon disulfide		5.0 U
	Methylene chloride	2	5.0 U
75-34-3	1,1-Dichloroethane		1.0 U
78-93-3	2-Butanone		5.0 U
540-59-0	1,2-Dichloroethyle	ne (total)	2.0 0
67-66-3	Chloroform		1.0 U
71-55-6	1,1,1-Trichloroeth	ane	1.0 U
56-23-5	Carbon tetrachlori	de	1.0 U
107-06-2	1,2-Dichloroethane		1.0 0
71-43-2	Benzene		1.0 U
79-01-6	Trichloroethylene		1.0 U
78-87-5	1,2-Dichloropropan	e	1.0 U
75-27-4	Bromodichlorometha	ne	1.0 U
10061-01-5	cis-1,3-Dichloropr	opylene	1.0 0
108-10-1	4-Methyl-2-pentano	ne	5.0 U
108-88-3	Toluene		1.8
10061-02-6	trans-1,3-Dichloro	propylene	1.0 Ū
79-00-5	1,1,2-Trichloroeth	ane	1.0 0
591-78-6	2-Hexanone		5.0 U
127-18-4	Tetrachloroethylen	e	1.0 U
124-48-1	Dibromochlorometha	ne	1.0 U
108-90-7	Chlorobenzene		1.0 U
100-41-4	Ethylbenzene		1.0 0
1330-20-7	Xylenes (total)		3.0 U
100-42-5	Styrene		1.0 U
75-25-2	Bromoform		1.0 0
79-34-5	1,1,2,2-Tetrachlor	oethane	1.0 0

FORM I VOA

Duplicate EPA SAMPLE NO

VOLATILE ORGANICS ANALYSIS DATA SHEET

AF6674

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Lab Sample ID: 63879020 Matrix: (soil/water) WATER

Lab File ID: 5T448 Sample wt/vol: 5.000 (g/ml) ML

Date Received: 07/19/02 Level: (low/med) LOW

Date Analyzed: 07/26/02 % Moisture: not dec.

Dilution Factor: 1.0 GC Column: DB-624 ID: 0.25 (mm)

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____ (uL

CONCENTRATION UNITS:

∵ ±4) V1	OT4 T .	10.	•	
	or	uq/	Ka:) U	G/I	<u>.</u>	Q

74-87-3

FORM I VOA

DATA VALIDATION

EPA SAMPLE NO.

AF6682

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER

Lab Sample ID: 63879015

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 5T443

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/26/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: _____(uL

CONCENTRATION UNITS:

FORM I VOA

DATA VALIDATION

AF6692

TEPA SAMPLE NO.

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER

Lab Sample ID: 63879019

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 5T447

Date Received: 07/19/02

Level: (low/med) LOW

Date Analyzed: 07/26/02

% Moisture: not dec.

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CAS NO.	COMPOUND	CONCENTRATIO		Q ,	
74-83-9 75-00-3 75-35-4 75-15-0 75-15-0 75-34-3 75-34-3 75-34-3 75-66-3 71-55-6 71-55-6 71-43-2 79-01-6 78-87-5 75-27-4 108-10-1 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-90-7 127-18-4 1330-20-7 100-42-5 75-25-2	-Vinyl chloride -Bromomethane -Chloroethane -1,1-Dichloroethy -Acetone -Carbon disulfide -Methylene chlori -1,1-Dichloroetha -2-Butanone -1,2-Dichloroethy -Chloroform -1,1,1-Trichloroe -Carbon tetrachlo -1,2-Dichloroetha -Benzene -Trichloroethylen -1,2-Dichloroprop -Bromodichloromet -cis-1,3-Dichloro -4-Methyl-2-penta -Toluene -trans-1,3-Dichlo -1,1,2-Trichloroe -2-Hexanone -Tetrachloroethyl -Dibromochloromet -Chlorobenzene -Ethylbenzene -Xylenes (total) -Styrene	de ne lene (total) thane ride ne e ane hane propylene none ropropylene thane ene hane	1.0 1.0 1.0 1.0 1.0 1.0 5.0 5.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	ממממממממק ממממ ממממממממממממממ	
	FORM I V	OA .	COPY	OLMO	3.0

EPA SAMPLE NO.

AF6722

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER

Lab Sample ID: 63879007

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 5U113

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 2.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/	Kg) UG/L	Q
74-87-3 75-01-4 74-83-9 75-00-3 75-35-4 75-15-0 75-15-0 75-34-3 75-34-3 75-34-3 75-66-3 71-55-6 56-23-5 107-06-2 71-43-2 79-01-6 78-87-5 108-87-5 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 109-00-5	ChloromethaneVinyl chlorideBromomethaneChloroethane1,1-DichloroethyleneAcetoneCarbon disulfideMethylene chloride1,1-Dichloroethane2-Butanone1,2-Dichloroethylene (total)Chloroform1,1,1-TrichloroethaneCarbon tetrachloride1,2-DichloroethaneTrichloroethylene1,2-DichloropropaneBromodichloromethaneI,2-Dichloropropylene4-Methyl-2-pentanoneTolueneTrichloroethane	2.0 2.0 2.0 2.0 1.1 8.6 10.0 2.2 10.2 10.2 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0	שמשמשמש שמשמש ש שמקנים של אין אין אין אין אין אין אין אין אין אין
10061-02-6 79-00-5 591-78-6 127-18-4 124-48-1 108-90-7 100-41-4 1330-20-7 75-25-2	trans-1,3-Dichloropropylene1,1,2-Trichloroethane2-HexanoneTetrachloroethyleneDibromochloromethaneChlorobenzeneEthylbenzeneXylenes (total)	2.0	מ מ מ מ מ מ מ מ מ מ מ מ מ

FORM I VOA

DATA VALIDATION OLMO3.0 COPY

AF6732

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

COMPOUND

CAS NO.

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER Lab Sample ID: 63879006

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5T434

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. Date Analyzed: 07/26/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

1.0 U 74-87-3-----Chloromethane 1.0 U 75-01-4-----Vinyl chloride_ 1.0 74-83-9-----Bromomethane 1.0 75-00-3-----Chloroethane_ 2.3 75-35-4-----1,1-Dichloroethylene u 5.0 | ਹੋ 67-64-1------Acetone 5.0 U 75-15-0------Carbon disulfide 5.0 U 75-09-2-----Methylene chloride 0.97 J 75-34-3-----1,1-Dichloroethane_ 5.0 U 78-93-3----2-Butanone 540-59-0-----1,2-Dichloroethylene (total) 25.6 1.0 0 67-66-3-----Chloroform 1.0 U 71-55-6-----1,1,1-Trichloroethane_ 1.0 U 56-23-5-----Carbon tetrachloride_ 107-06-2----1,2-Dichloroethane 746 556 ED 71-43-2----Benzene 79-01-6-----Trichloroethylene 78-87-5-----1, 2-Dichloropropane 1.0 U 75-27-4-----Bromodichloromethane 1.0 U 10061-01-5----cis-1,3-Dichloropropylene 5.0 U 108-10-1----4-Methyl-2-pentanone 1.0 U 108-88-3-----Toluene 10061-02-6----trans-1,3-Dichloropropylene 1.0 0 1.0 U 79-00-5----1,1,2-Trichloroethane____ 5.0 U 591-78-6----2-Hexanone_ 127-18-4-----Tetrachloroethylene 1.0 U 1.0 U 124-48-1-----Dibromochloromethane 1.0 U 108-90-7-----Chlorobenzene__ 1.0 0 100-41-4-----Ethylbenzene_ 3.0 U 1330-20-7-----Xylenes (total) 1.0 U 100-42-5-----Styrene 1.0 U 75-25-2-----Bromoform 1.0 U 79-34-5----1,1,2,2-Tetrachloroethane

FORM I VOA

DATA VALIDATION OLMO3.0

EPATSAMPLETNO. AF6742

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A

SDG No.: 63879

Matrix: (soil/water) WATER

Lab Sample ID: 63879004

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 5T432

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/25/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume:____(uL)

Soil Aliquot Volume: ____(uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

The second than a second that a second than a second than a second than a second than a second that a second than a second than a second than a second than	1.0	ט ע
74-87-3Chloromethane	1.0	1
75-01-4Vinyl chloride		<u> </u>
74-83-9Bromomethane		ŭ
75-00-3Chloroethane		Ŭ
75-35-41,1-Dichloroethylene	;	ן ע
67-64-1Acetone		<u>u</u>
75-15-0Carbon disulfide		<u>u</u>
75-09-2Methylene chloride		
75-34-31,1-Dichloroethane		Ŭ
7 n n n n n n n n n n n n n n n n n n n	5.0	ָ <u></u>
540-59-01,2-Dichloroethylene (total)	2.0	ט
67-66-3Chlorolorm	1.0	U
71-55-61,1,1-Trichloroethane	1.0	ט
56-23-5Carbon tetrachloride	1.0	U
107-06-21,2-Dichloroethane	1.0	U
71-43-2Benzene	1.0	
79-01-6Trichloroethylene	1.0	U
78-87-51,2-Dichloropropane	1	
75-27-4Bromodichloromethane	1.0	
10061-01-5cis-1,3-Dichloropropylene	1.0	
108-10-14-Methyl-2-pentanone	5.0	
108-88-3Toluene	1.0	ט
10061-02-6trans-1,3-Dichloropropylene_	1.0	ט
79-00-51,1,2-Trichloroethane	1.0	U
591-78-62-Hexanone	5.0	ט
127-18-4Tetrachloroethylene	1.0	ט ו
124-48-1Dibromochloromethane	1.0	ប
108-90-7Chlorobenzene	1.0	ן ט ו
100-41-4Ethylbenzene	1.0	ט
1330-20-7Xylenes (total)	3.0	
100-42-5Styrene	1.0	U
75-25-2Bromoform	1.0	1
79-34-51,1,2,2-Tetrachloroethane	1.0	
/3-34-51,1,2,2-1ecraemorocemane	•	
	.	\

FORM I VOA

DATA VALIDATION

EPA SAMPLE NO.

AF6752

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER Lab Sample ID: 63879002

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5T430

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. Date Analyzed: 07/25/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q

CAD NO.	COMPOUND (agy in oil agy	, ng, 00, 2	
74-87-3	Chloromethane		1.0 U
	Vinyl chloride	•	1.0 U
74-83-9	Bromomethane		1.0 0
75-00-3	Chloroethane		1.0 U
75-35-4	1,1-Dichloroethylene		1.0 0
67-64-1	Acetone		5.0 U
75-15-0	Carbon disulfide		5.0 U
	Methylene chloride		5.0 U
75-34-3	1,1-Dichloroethane		1.0 U
78-93-3	2-Butanone		5.0 U
540-59-0	1,2-Dichloroethylene (total)		5.0 U 2.0 U 1.0 U
67-66-3	Chloroform		1.0 U
71-55-6	1,1,1-Trichloroethane		1.0 U
56-23-5	Carbon tetrachloride		1.0 U
107-06-2	1,2-Dichloroethane		1.0 U
71-43-2	Benzene		1.0 U
79-01-6	Trichloroethylene		1.0 U
78-87-5	1,2-Dichloropropane		1.0 U
75-27-4	Bromodichloromethane		1.0 U
10061-01-5	cis-1,3-Dichloropropylene		1.0 U
108-10-1	4-Methyl-2-pentanone		5.0 U
108-88-3	Toluene		1.0 U
10061-02-6	trans-1,3-Dichloropropylene_		1.0 U
79-00-5	1,1,2-Trichloroethane		1.0 U
591-78-6	2-Hexanone		5.0 U
127-18-4	Tetrachloroethylene		1.0 U
124-48-1	Dibromochloromethane		1.0 U
108-90-7	Chlorobenzene		1.0 U
	Ethylbenzene		1.0 U
1330-20-7	Xylenes (total)		3.0 U
100-42-5	Styrene		1.0 U
75-25-2	Bromoform		1.0 U
	1,1,2,2-Tetrachloroethane		1.0 U
	1,2,2,2 1001001110110		

FORM I VOA

DATA VALIDATION COPY

EPA SAMPLE NO.

AF6762

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Case No.: N/A SAS No.: N/A Lab Code: N/A

SDG No.: 63879

Matrix: (soil/water) WATER

Lab Sample ID: 63879001

Sample wt/vol:

5.000 (g/ml) ML

Lab File ID: 5T429

Level: (low/med)

LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/25/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg		Q	
74-87-3 75-01-4 74-83-9 75-00-3 75-35-4 75-15-0 75-15-0 75-34-3 75-34-3 78-93-3 74-66-3 71-55-6 71-55-6 71-43-2 79-01-6 78-87-5 75-27-4 108-10-1 108-88-3 10061-02-6	-Chloromethane -Vinyl chloride -Bromomethane -Chloroethane -1,1-Dichloroethyl -Acetone -Carbon disulfide -Methylene chlorid -1,1-Dichloroethan -2-Butanone -1,2-Dichloroethyl -Chloroform -1,1,1-Trichloroet -Carbon tetrachlor -1,2-Dichloroethan -Benzene -Trichloroethylene -1,2-Dichloropropa -Bromodichloromethylene -1,2-Dichloropropa -Bromodichloromethylene -1,2-Dichloropropa -Bromodichloromethylene -1,2-Dichloropropa -Bromodichloromethylene -1,2-Dichloropropa -Bromodichloromethylene -1,2-Dichloropropa	de		1.0 UU UU UU UU UU UU UU UU UU UU UU UU UU	U
591-78-6			ţ	5.0 U	

FORM I VOA

127-18-4-----Tetrachloroethylene

108-90-7-----Chlorobenzene

100-41-4-----Ethylbenzene 1330-20-7-----Xylenes (total)

100-42-5-----Styrene

75-25-2-----Bromoform

124-48-1-----Dibromochloromethane

79-34-5----1,1,2,2-Tetrachloroethane

OLMO3.0

1.0 U 1.0 U

1.0 U 1.0 U

3.0 U

1.0 U

1.0 U 1.0 U

EPA SAMPLE NO! AF6772

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A

SDG No.: 63879

Matrix: (soil/water) WATER

Lab Sample ID: 63879005

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 5T433

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/25/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CAS NO.

COMPOUND

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

74-87-3Chloromethane	1.0	U U
75-01-4Vinyl chloride	f .	U
74-83-9Bromomethane	1.0	ט 📗
75-00-3Chloroethane	1.0	ט וו
75-35-41,1-Dichloroethylene		Ū II
67-64-1Acetone	!	<u> </u>
75-15-0Carbon disulfide		Ŭ
75-15-0		ΰ
75-09-2Methylene chloride		ŭ
75-34-31,1-Dichloroethane		ŭ
78-93-32-Butanone		ŭ
540-59-01,2-Dichloroethylene (total)		ŭ
67-66-3Chloroform	!	ט ו
71-55-61,1,1-Trichloroethane		
56-23-5Carbon tetrachloride	1)	U
107-06-21,2-Dichloroethane	l ·	ַ
71-43-2Benzene	1.0	1 1
79-01-6Trichloroethylene	1.0	
78-87-51,2-Dichloropropane	1.0	1 1
75-27-4Bromodichloromethane	1	Ŭ
10061-01-5cis-1,3-Dichloropropylene		U
108-10-14-Methyl-2-pentanone	1 1	ַ ן
108-88-3Toluene		U
10061-02-6trans-1,3-Dichloropropylene_		U
79-00-51,1,2-Trichloroethane	1.0	ט
591-78-62-Hexanone	5.0	ט 📗
127-18-4Tetrachloroethylene	1.0	U
124-48-1Dibromochloromethane	1.0	υ
108-90-7Chlorobenzene	1.0	υ l
100-41-4Ethylbenzene	1.0	ט ו
1330-20-7Xylenes (total)	I	ט ו
100-42-5Styrene	1	ו ע
75-25-2Bromoform	1.0	บี
79-34-51,1,2,2-Tetrachloroethane	I	υ
/9-54-5	1	-
]	I Q

FORM I VOA

DATA VALIDATION COPY

EPA SAMPLE NO.

AF6782

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63882

Matrix: (soil/water) WATER Lab Sample ID: 63882007

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 5U213

Level: (low/med) LOW Date Received: 07/19/02

% Moisture: not dec. ____ Date Analyzed: 07/30/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL

CAS NO.	COMPOUND		TRATION	 		Q
75-01-4 74-83-9 75-00-3 75-35-4 67-64-1 75-15-0 75-09-2 75-34-3 78-93-3 540-59-0 67-66-3 71-55-6 56-23-5 107-06-2 71-43-2 79-01-6 78-87-5 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-90-7 79-00-5	Carbon disulfice	nylene le ride nane nylene (to pethane oride nane coride nane copropyler anone oropropyler anone thane thane thane	ne	111155551.521.11.11.11.11.11.11.11.11.11.11.11.11.1	000000000 4444444444444444444444444444	

FORM I VOA

EPA SAMPLE NO.

AF6792

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A

SDG No.: 63882

Matrix: (soil/water) WATER

Lab Sample ID: 63882008

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 5U214

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/30/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS:

74-87-3 -Chloromethane 1.0 U 75-01-4 -Vinyl chloride 1.0 U 75-00-3 -Chloroethane 1.0 U 75-35-4 -1,1-Dichloroethylene 1.0 U 67-64-1 -Acetone 5.0 U 75-15-0 -Carbon disulfide 5.0 U 75-09-2 -Methylene chloride 5.0 U 75-34-3 -1,1-Dichloroethane 1.0 U 78-93-3 -2-Butanone 5.0 U 540-59-0 -1,2-Dichloroethylene (total) 2.0 U 67-66-3 -Chloroform 1.0 U 71-55-6 -1,1,1-Trichloroethane 1.0 U 107-06-2 -1,2-Dichloroethylene 1.0 U 107-06-2 -1,2-Dichloroethylene 1.0 U 79-01-6 -Trichloroethylene 1.0 U 78-87-5 -1,2-Dichloropropane 1.0 U 75-27-4 -Bromodichloromethane 1.0 U 108-10-1 -Bromodichloromethane 1.0 U 108-88-3 -Toluene 1.0 U 108-88-3 -Toluene 1.0 U 109-17-8-6 -2-Hexanone 5.0 U <td< th=""><th>. ~</th><th>CAS NO.</th><th></th><th>or ug/Kg)</th><th></th><th>Q ·</th><th></th></td<>	. ~	CAS NO.		or ug/Kg)		Q ·	
		75-01-4 74-83-9 75-00-3 75-35-4 67-64-1 75-15-0 75-34-3 78-93-3 540-59-0 67-66-3 71-55-6 71-43-2 78-87-5 78-87-5 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-88-3 108-10-1 108-88-3 108-10-1 108-88-3 108-10-1 108-88-3 108-10-1 108-88-3 10061-02-6 79-00-5 127-18-4 1330-20-7 100-42-5	ChloromethaneVinyl chlorideBromomethaneChloroethane1,1-DichloroethyleneAcetoneCarbon disulfideMethylene chloride1,1-Dichloroethane2-Butanone1,2-Dichloroethylene (the content of the content of	otal)	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	ממממממממממממממממממממממממממ	X

FORM I VOA

DATA VALIDATION OLMO3.0 COPY

EPA SAMPLE NO.

TBH013

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A

Matrix: (soil/water) WATER

Lab Sample ID: 63880004

SDG No.: 63880

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 10111

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/29/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: (uL

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

74-87-3	CAS NO.	COMPOUND (ug/L or ug		Q	
74-83-9Bromomethane					
75-00-3	75-01-4	Vinyi chloride			
1.0 U 16.7 U U 16.7 U			I .	•	11
16.7 U Tolors		1	1	11.	
T5-15-0					<u></u>
75-09-2					
75-34-31,1-Dichloroethane			Z 3.7	TB	1
78-93-32-Butanone 4.0 J 540-59-01, 2-Dichloroethylene (total) 2.0 U 67-66-3Chloroform 1.0 U 71-55-61, 1, 1-Trichloroethane 1.0 U 56-23-5Carbon tetrachloride 1.0 U 107-06-21, 2-Dichloroethane 1.0 U 71-43-2Benzene 1.0 U 79-01-6Trichloroethylene 1.0 U 78-87-51, 2-Dichloropropane 1.0 U 75-27-4Bromodichloromethane 1.0 U 108-10-14-Methyl-2-pentanone 5.0 U 108-88-3Toluene 0.48 J 1061-02-6trans-1, 3-Dichloropropylene 1.0 U 79-00-51, 1, 2-Trichloroethane 1.0 U 591-78-62-Hexanone 5.0 U 127-18-4Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Styrene 1.0 U	75-09-2	Metnylene Chioride	1 1 0	מט	4 Fol, Fob
540-59-01, 2-Dichloroethylene (total) 2.0 U 67-66-3Chloroform 1.0 U 71-55-61, 1, 1-Trichloroethane 1.0 U 56-23-5Carbon tetrachloride 1.0 U 107-06-21, 2-Dichloroethane 1.0 U 71-43-2Benzene 1.0 U 79-01-6Trichloroethylene 1.0 U 78-87-51, 2-Dichloropropane 1.0 U 75-27-4Bromodichloromethane 1.0 U 10061-01-5					4
67-66-3Chloroform 1.0 U 71-55-61,1,1-Trichloroethane 1.0 U 56-23-5Carbon tetrachloride 1.0 U 107-06-21,2-Dichloroethane 1.0 U 71-43-2Benzene 1.0 U 78-87-51,2-Dichloroethylene 1.0 U 75-27-4Bromodichloromethane 1.0 U 108-10-14-Methyl-2-pentanone 5.0 U 108-88-3Toluene 0.48 J 10061-02-6trans-1,3-Dichloropropylene 1.0 U 79-00-51,1,2-Trichloroethane 1.0 U 591-78-62-Hexanone 5.0 U 127-18-4Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Styrene 1.0 U					γ.
71-55-61,1,1-Trichloroethane 1.0 U 56-23-5Carbon tetrachloride 1.0 U 107-06-21,2-Dichloroethane 1.0 U 71-43-2Benzene 1.0 U 79-01-6Trichloroethylene 1.0 U 78-87-51,2-Dichloropropane 1.0 U 75-27-4Bromodichloromethane 1.0 U 10061-01-5is-1,3-Dichloropropylene 1.0 U 108-88-3Toluene 0.48 J 10061-02-6trans-1,3-Dichloropropylene 1.0 U 79-00-51,1,2-Trichloroethane 1.0 U 591-78-62-Hexanone 1.0 U 124-48-1Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Styrene 1.0 U	540-59-0	1,2-Dichiordeunylene (total)			u
56-23-5Carbon tetrachloride 1.0 U 107-06-21,2-Dichloroethane 1.0 U 71-43-2Benzene 1.0 U 79-01-6Trichloroethylene 1.0 U 78-87-51,2-Dichloropropane 1.0 U 75-27-4Bromodichloromethane 1.0 U 10061-01-5is-1,3-Dichloropropylene 1.0 U 108-88-3Toluene 0.48 J 10061-02-6trans-1,3-Dichloropropylene 1.0 U 79-00-51,1,2-Trichloroethane 1.0 U 127-18-62-Hexanone 1.0 U 124-48-1Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Styrene 1.0 U					11
107-06-21,2-Dichloroethane 1.0 U 71-43-2Benzene 1.0 U 79-01-6Trichloroethylene 1.0 U 78-87-51,2-Dichloropropane 1.0 U 75-27-4Bromodichloromethane 1.0 U 10061-01-5is-1,3-Dichloropropylene 1.0 U 108-10-14-Methyl-2-pentanone 5.0 U 108-88-3Toluene 0.48 J 10061-02-6trans-1,3-Dichloropropylene 1.0 U 79-00-51,1,2-Trichloroethane 1.0 U 127-18-62-Hexanone 5.0 U 127-18-4Tetrachloroethylene 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7			1	1	
71-43-2Benzene 79-01-6Trichloroethylene 78-87-51,2-Dichloropropane 75-27-4Bromodichloromethane 1.0 U 10061-01-5cis-1,3-Dichloropropylene 108-10-14-Methyl-2-pentanone 108-88-3Toluene 10061-02-6trans-1,3-Dichloropropylene 10061-02-6trans-1,3-Dichloropropylene 79-00-51,1,2-Trichloroethane 1.0 U 127-18-4Tetrachloroethylene 1.0 U 124-48-1Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Xylenes (total) 100-42-5Styrene 1.0 U			,	•	11
79-01-6Trichloroethylene 1.0 U 78-87-51,2-Dichloropropane 1.0 U 75-27-4Bromodichloromethane 1.0 U 10061-01-5cis-1,3-Dichloropropylene 1.0 U 108-10-14-Methyl-2-pentanone 5.0 U 108-88-3Toluene 0.48 J 10061-02-6trans-1,3-Dichloropropylene 1.0 U 79-00-51,1,2-Trichloroethane 1.0 U 591-78-62-Hexanone 5.0 U 127-18-4Tetrachloroethylene 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Xylenes (total) 3.0 U 100-42-5Styrene 1.0 U				_	11
78-87-51,2-Dichloropropane 1.0 U 75-27-4Bromodichloromethane 1.0 U 10061-01-5cis-1,3-Dichloropropylene 1.0 U 108-88-3Toluene 5.0 U 10061-02-6trans-1,3-Dichloropropylene 1.0 U 79-00-51,1,2-Trichloroethane 1.0 U 591-78-62-Hexanone 5.0 U 127-18-4Tetrachloroethylene 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7			1	l .	11
75-27-4Bromodichloromethane 1.0 U 10061-01-5cis-1,3-Dichloropropylene 1.0 U 108-88-3Toluene 5.0 U 108-88-3Toluene 0.48 J 10061-02-6trans-1,3-Dichloropropylene 1.0 U 108-91-78-62-Hexanone 5.0 U 127-18-4Tetrachloroethylene 1.0 U 124-48-1Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 1330-20-7			í	l .	11
10061-01-5cis-1,3-Dichloropropylene 1.0 U 108-10-14-Methyl-2-pentanone 5.0 U 108-88-3Toluene 0.48 J 10061-02-6trans-1,3-Dichloropropylene 1.0 U 79-00-51,1,2-Trichloroethane 1.0 U 591-78-62-Hexanone 5.0 U 127-18-4Tetrachloroethylene 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Xylenes (total) 3.0 U 100-42-5	76-67-3	Promodiahloromothano	I .	1	11
108-10-14-Methyl-2-pentanone 5.0 U 108-88-3Toluene 0.48 J 10061-02-6trans-1,3-Dichloropropylene 1.0 U 79-00-51,1,2-Trichloroethane 1.0 U 591-78-62-Hexanone 5.0 U 127-18-4Tetrachloroethylene 1.0 U 124-48-1Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Xylenes (total) 3.0 U 100-42-5					11
108-88-3Toluene 0.48 J 10061-02-6trans-1,3-Dichloropropylene 1.0 U 79-00-51,1,2-Trichloroethane 1.0 U 591-78-62-Hexanone 5.0 U 127-18-4Tetrachloroethylene 1.0 U 124-48-1Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Xylenes (total) 3.0 U 100-42-5					11.
10061-02-6trans-1,3-Dichloropropylene 1.0 U 79-00-51,1,2-Trichloroethane 1.0 U 591-78-62-Hexanone 5.0 U 127-18-4Tetrachloroethylene 1.0 U 124-48-1Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 1330-20-7Xylenes (total) 3.0 U 100-42-5Styrene 1.0 U					*
79-00-51,1,2-Trichloroethane 1.0 U 591-78-62-Hexanone 5.0 U 127-18-4Tetrachloroethylene 1.0 U 124-48-1Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Xylenes (total) 3.0 U 100-42-5Styrene 1.0 U					b,
591-78-62-Hexanone 5.0 U 127-18-4Tetrachloroethylene 1.0 U 124-48-1Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Xylenes (total) 3.0 U 100-42-5Styrene 1.0 U	10061-02-6	trans-1,3-Dichioropropylene_			u
127-18-4Tetrachloroethylene 1.0 U 124-48-1Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Xylenes (total) 3.0 U 100-42-5Styrene 1.0 U	79-00-5	1,1,2-1f1Ch1oroethane			
124-48-1Dibromochloromethane 1.0 U 108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Xylenes (total) 3.0 U 100-42-5Styrene 1.0 U					11.
108-90-7Chlorobenzene 1.0 U 100-41-4Ethylbenzene 1.0 U 1330-20-7Xylenes (total) 3.0 U 100-42-5Styrene 1.0 U	127-18-4	Dibromoghloromothans			11
100-41-4Ethylbenzene 1.0 U 1330-20-7Xylenes (total) 3.0 U 100-42-5Styrene 1.0 U	100 00 7	Chlorobonzono			11
1330-20-7Xylenes (total) 3.0 U 100-42-5Styrene 1.0 U					1)
1.0 U					11
75-25-2Bromoform 1.0 U	100-42-5	Styrene			11
	75-25-2	Bromoform	1	l .	
79-34-51,1,2,2-Tetrachloroethane 1.0 U			1	S .	
1,1,2,2 16014011101000114110	, , , , , , , , , , , , , , , , , , ,	1,1,2,2 16614611101066114116	1.0	١	14

FORM I VOA

EPA SAMPLE NO.

TBH014

Lab Name: GENERAL ENGINEERING LABOR Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 63879

Matrix: (soil/water) WATER

Lab Sample ID: 63879003

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 5T431

Level: (low/med) LOW

Date Received: 07/19/02

% Moisture: not dec.

Date Analyzed: 07/25/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL) `

Soil Aliquot Volume: ____(uL

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND (ug/L or ug	/Kg) UG/L Q
74-87-3 75-01-4 74-83-9 75-00-3 75-35-4 67-64-1 75-15-0	ChloromethaneVinyl chlorideBromomethaneChloroethane1,1-Dichloroethylene	1.2 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 15.3 5.0 U
78-93-3 540-59-0 67-66-3 71-55-6 56-23-5 107-06-2 71-43-2 79-01-6	2-Butanone1,2-Dichloroethylene (total)Chloroform1,1,1-TrichloroethaneCarbon tetrachloride1,2-Dichloroethane	1.0 U
75-27-4 10061-01-5 108-10-1 108-88-3 10061-02-6 79-00-5 591-78-6	Bromodichloromethanecis-1,3-Dichloropropylene4-Methyl-2-pentanone	1.0 U 1.0 U 5.0 U 1.0 U
124-48-1 108-90-7 100-41-4 1330-20-7 100-42-5	DibromochloromethaneChlorobenzeneEthylbenzeneXylenes (total)	1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U

FORM I VOA



151 Laylayatta Drive, Oak Ridge, Tennessee 37831(865) 481-4600

CHAIN OF CUSTODY RECORD

COC NO .: HLTM/5

151 Layfayetta Drive, Oak Ridge, Tennessee 37831(865) 481-4600			<u> </u>	-	14							7110						····			101	10(1	
PROJECT NAME: Hunter LTM			REQUESTED PARAMETERS									1	LABORATORY NAME: General Engineering Laboratory										
PROJECT NUMBER: 01-1624-04-2301-200 PROJECT MANAGER: Patty Stoll 3879																		Vials:	LABORATORY 2040 Savage Charleston, SC	ADD	RESS:		
Sampler (Signature) Sampler (Signature) ATRICIA	1. Srou			TCLP BTEX	TCLP Lead	Q												of Bottles/ V	PHONE NO: (·		71	AGENTS
Sample ID Date Collected Time Colle	cted Matrix	BTEX	PAH	TCL	TCL	401												ş	SCREENING			L INSTRUCT	
AF 6762 7/17/02 1803	3 vote				\$ 13	2	\ 											Z					<u> </u>
AF6752 7/17/02 173	5 water					2	:	<u> </u>				•					_	2			·		
TBHØ14 9/16/02 074	10 Water		92 3		.:.	2												2					
AF6742 7/17/02 17/0	o water					Z		1	<u> </u>			_ _	\perp	1	_		_	Z					
AF6772 7/11/02 182	3 wafa				٠	Z			_					1_			\perp	2		_			
AF6732 711-102 1701		<u> </u>	·		<i>-</i> -	2	-		`			_	_		<u> </u>			2		_			
AF6722 7/17/02 164:		_	_	_	_	2	_	\perp	1_				_[_	_			2					
AF6592 7/17/02 1530		_	<u> </u>	_	<u> ·</u>	2		_ _	4_		_		_		<u> </u>		_	2		_			
AF6582 7/17/02 150				<u> </u>	<u> </u>	2			_ _		_				ļ			Z	_L				
AF6572 7/17/02 143		1_	<u> </u>	<u> </u>	<u> </u> _	2			_				_		-			2					
AF6512 717102 1110	water	<u> </u>		_	<u> </u>	2		<u>.</u>	_			_ _	\perp		-		_	2		_			
AF6552 7/17/02 1221		1_	L	<u> </u>	L	2			1_			_	_		-		_	2				· · · · · · · · · · · · · · · · · · ·	·
AF6562 7/17/08 1246		Ţ	<u></u>		Ļ	2		┵,										, 2	 			d D	
	RECEIVED BY:) [) XIV	4.1	۸	J.		e/Tim		тот	AL N	UMB	ER O	OF C	ONTA	VINE	RS:	90	9	Cooler Tempe	eratu	re:	1%	
7/18/02		<i>D</i> HT	14	WI	7	-	19/0	- 1	Coo	er ID	:		/#1						FEDEX NUMI				
COMPANY NAME: 1300	COMPANY NAME:	1	-			0	90	0				f.	//						820	40	D93	80 T	108
	RELINQUISHED BY	:				Dat	e/Tim	ne				-											
	COMPANY NAME:																						,
RELINQUISHED BY: Date/Time	RECEIVED BY:					Dat	е/Тіп	ne															;
COMPANY NAME:	COMPANY NAME:																						

page 2 of 4



151 Laylayette Drive, Oak Ridge, Tennessee 37831(865) 481-4600

CHAIN OF CUSTODY RECORD

COC NO .: HTTM/S

151 Leyleyette Drive, Oak Hidge, Tennessee 37831(865) 481-4600	CHAIN OF COSTODY RECORD	(familiar (1 and			
PROJECT NAME: Hunter LTM	REQUESTED PARAMETERS	LABORATORY NAME: General Engineering Laboratory			
PROJECT NUMBER: 01-1624-04-2301-200 PROJECT MANAGER: Patty Stoll		LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29417			
Sampler (Signature) (Printed Name)	XI Ba Ct	PHONE NO: (843) 656-8171			
Sample ID Date Collected Time Collected N		OVA OBSERVATIONS, COMMENTS, SCREENING SPECIAL INSTRUCTIONS			
4 AP6532 7117102 1148 W		2			
5 AFCOL 82 7/17/02 1003 Wa	ا الله الله الله الله الله الله الله ال	3			
6 AF 6554 7117102 1221 WO	2 2	2			
7 AF6542 7/17/02 1205 U	a 2 1 1 1 1 1 1 1 1 1	2			
8 AF6672 7/17/02 0932 W		7			
9 AF6692 711HOZ 1030 W	v 2	Z adie win.			
AF6774 7117/02 0932 W	<u> </u>	2 AF 6574			
AF6522 7/17/02 1137 W	المراجع الناك التناك التناق الكال التناك لاساراتها التناك التناف التناف المناف المناف المناف المناف التناف المناف	2			
12 AF6662 7/17/02 0909 WG	4 2	2			
3 AF6652 7/17/or 0855 W	<u> </u>	2			
4 TBHOID 7/16/02 0730 W		2			
AF6443 711602 1510 W	المالة المالة المالة المنات المنات المنات المنات المنات المنت بمرات المنات 2 AF6442,				
6 AF 63834 714/02 1035 W		<u> </u>			
RELUCUISHED S. 7/16/02 Date/Time RECEIVED	XI HAR MA 7 110/11				
COMPANY NAME: 1300 COMPANY SAIC 1300 COMPANY	OUNDOY 7/19/02 Cooler ID: ///	FEDEX NUMBER:			
RECEIVED BY: Date/Time RELINQUIS 7/18/02		-			
COMPANY NAME: 1300 COMPANY	ME:				
RELINQUISHED BY: Date/Time RECEIVED	: Date/Time -				
COMPANY NAME: COMPANY	AME:				



800 Osh Ridge Turnpike, Osk Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO .: HITMIS

PROJECT NAME: HAAF Long Term Monitoring	CHAIN		ODY RECORD			T	ALIMIS
;		REQ	UESTED PARAMETE	KS		LABORATORY General Engine	NAME: Bring Laboratory
PROJECT NUMBER: 01-1624-04-2725-280					Vials:	LABORATORY 2040 Savage F	ADDRESS:
Sample (Signature) Odil PATRICIAA. TOLL					Buttles.	PHONE NO: (84	43) 556-8171
Sample ID Date Collected Time Collected Matrix	PAH VOC				d oN		OBSERVATIONS, COMMENTS SPECIAL INSTRUCTIONS
AF6342 7/16/02 0931 water	Z				2	2	
AF6497 7/16/02 1745 water	2				2	,	
AF6922 7/16/02 1440 Water	Z				Z	>	
AF6362 7/16/02 1035 water	2				2		
AF6372 7/16/02 1108 Water					2	2	
AF6332 7/16/02 0913 water	2				. 2		
AF6472 7/16/02 16/16 Water	Z				a	2	
AF6432 7116/02 1953 Water	多 て				7		
AF6482 9116/02 1648 waln	2				_ im i _ _	2,	
AF 6462 7110102 1552 Water	Z					2	
AF6352 7/16/02 1010 Water						2	
AF6322 7/10/02 0857 water						2	
AF6452 7/16/02 1532 water	Z					2	
RELIMOUISHED BY: Date/Time RECEIVED BY: 7/18/02	STOTE OF	Date/Time >7/19/02	TOTAL NUMBER OF	FCONTAINERS	96	Cooler Temper	
1/00-	20 -1001		Cooler ID:	,		FEDEX NUMBI	
COMPANY NAME: 1300 COMPANY NAME:		0966	///			82060	9380908
RECEIVED BY: Dete/Time RELINQUISHED BY: 7/18/07		Date/Time					
COMPANY NAME: 1300 COMPANY NAME:							
RELINQUISHED BY: Date/Time RECEIVED BY:		Date/Time					
COMPANY NAME: COMPANY NAME:							



COC NO .: HCTM (5 CHAIN OF CUSTODY RECORD 600 Oak Ridge Tumpike, Oak Ridge, TN 37831 (423) 481-4600 PROJECT NAME: HAAF Long Term Monitoring REQUESTED PARAMETERS LABORATORY NAME: General Engineering Laboratory PROJECT NUMBER: 01-1624-04-2725-200 2301-200 LABORATORY ADDRESS: 2040 Savage Raod PROJECT MANAGER: Patty Stoll Charleston, SC 29417 Sampler (Signature) (Printed Nance) Bottles/ PHONE NO: (843) 556-8171 PATRICIA A. STOLL PAH ō OVA OBSERVATIONS, COMMUNTS, Sample ID Date Collected Time Collected Matrix SCREENING SPECIAL INSTRUCTIONS 7/14/02 WaltA 1830 7/16/02 1142 Water 7/16/02 1926 water 7/10/02 0840 7116/02 1846 7(16/02 1242 7/14/02 AF6782 7/18/02 0820 7/14/02 0900 Date/Time TOTAL NUMBER OF CONTAINERS: Cooler Temperature: 4°C Date/Time 7/18/02 Cooler ID: FEDEX NUMBER: COMPANY NAME: 870609380908 SAIC 1300 RECEIVED BY: 820009380908 Date/Time RELINQUISHED BY: Date/Time 7/18/02 COMPANY NAME: 1300 RELINQUISHED BY: Date/Time RECEIVED BY: Date/Time

COMPANY NAME:

COMPANY NAME:

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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ADDITIONAL WELL INSTALLATION AND SAMPLING OCTOBER/DECEMBER 2002

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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Table VIII-J. Summary of December 2002 Groundwater Analytical Results

Well ID: Sample ID Screened Interval (ft BGS): Sample Date:	Federal SDWA MCLs ^a	In-Stream Water Quality Standards ^b	AF-68 AF6812 0.0 – 0.0 18-Dec-02	AF-69 AF6912 0.0 – 0.0 18-Dec-02	AF-70 AF7012 0.0 – 0.0 18-Dec-02	AF-71 AF7112 0.0 – 0.0 18-Dec-02	AF-72 AF7212 0.0 – 0.0 18-Dec-02
Units:	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(μg/L)	(µg/L)	(µg/L)
VOLATILE ORGANIC COMP							
1,1,1-Trichloroethane	200	_	1 U	1 U	1 UJ	1 UJ	1 U
1,1,2,2-Tetrachloroethane	_	10.8	1 U	1 U	1 UJ	1 UJ	1 U
1,1,2-Trichloroethane	5	41.99	1 U	1 U	1 UJ	1 UJ	1 U
1,1-Dichloroethane	_	_	1 U	1 U	1 UJ	1 UJ	1.8 =
1,1-Dichloroethene	7	3.2	1.6 =	1 U	1 UJ	0.54 J	4.9 =
1,2-Dichloroethane	5	98.6	1 U	1 U	1 UJ	1 UJ	1.2 =
1,2-Dichloroethene	_	_	84.8 =	6.9 =	1 UJ	36.5 J	57.8 =
1,2-Dichloropropane		_	1 U	1 U	1 UJ	1 UJ	1 =
1,3-cis-Dichloropropene	_	1,700	1 U	1 U	1 UJ	1 UJ	1 U
1,3-trans-Dichloropropene	_	1,700	1 U	1 U	1 UJ	1 UJ	1 U
2-Butanone	_	_	5 U	5 U	5 UJ	5 UJ	5 U
2-Hexanone	_	_	5 U	5 U	5 UJ	5 UJ	5 U
4-Methyl-2-Pentanone	_	_	5 U	5 U	5 UJ	5 UJ	5 U
Acetone	_	_	5 U	5 U	5 UJ	5 UJ	5 U
Benzene	5	71.28	1 U	1 U	1 UJ	1 UJ	1 U
Bromodichloromethane	_	_	1 U	1 U	1 UJ	1 UJ	1 U
Bromoform		360	1 U	1 U	1 UJ	1 UJ	1 U
Bromomethane		_	1 U	1 U	1 UJ	1 UJ	1 U
Carbon Disulfide	_	_	1 U	1 U	1 UJ	1 UJ	1 U
Carbon Tetrachloride	5	4.42	1 U	1 U	1 UJ	1 UJ	1 U
Chlorobenzene	100	21,000	5 U	5 U	5 UJ	5 UJ	5 U
Chloroethane	_	_	1 U	1 U	1 UJ	1 UJ	1 U
Chloroform	_	470.8	1 U	1 U	1 UJ	1 UJ	1 U
Chloromethane	_		1 U	1 U	1 UJ	1 UJ	1 U
Dibromochloromethane	_	22	1 U	1 U	1 UJ	1 UJ	1 U
Ethylbenzene	700	28,718	1 U	1 U	1 UJ	1 UJ	1 U
Methylene Chloride	_	_	1 U	1 U	1 UJ	1 UJ	1 U
Styrene	100	_	1 U	1 U	1 UJ	1 UJ	1 U
Tetrachloroethene	5	8.85	1 U	1 U	1 UJ	1 UJ	1 U
Toluene	1,000	200,000	1 U	1 U	1 UJ	1 UJ	1 U
Trichloroethene	5	80.7	380 J	138 J	2 J	41.4 J	807 J
Vinyl Chloride	2	525	1 U	1 U	1 UJ	1 UJ	1 U
Xylenes, Total	10,000	_	1 U	1 U	1 UJ	1 UJ	1 U

NOTES:

- ^a U.S. Environmental Protection Agency maximum contaminant level.
- b Georgia Environmental Protection Division water quality standards (Chapter 391-03-6.03).
- BGS Below ground surface.
- MCL Maximum contaminant level.
- SDWA Safe Drinking Water Act.

Laboratory Qualifiers

- U Indicates the compound was not detected at the concentration reported.
- UJ Indicates the compound was not detected above an approximated sample quantitation limit.
- J Indicates the value for the compound is an estimated value.
- = Indicates the compound was detected at the concentration reported.

EPA SAMPLE NO.

AF6812

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

GC Column: DB-624 ID: 0.25 (mm)

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Matrix: (soil/water) WATER Lab Sample ID: 72462002

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 4P215

Level: (low/med) LOW Date Received: 12/19/02 % Moisture: not dec. Date Analyzed: 12/31/02

Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume:

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L

74-87-3Chloromethane	1.0 0	•
75-01-4Vinyl chloride	1.0 0	
74-83-9Bromomethane	1.0 0	
75-00-3Chloroethane	1.0 U	
75-35-41,1-Dichloroethylene	1.6	
67-64-1Acetone	5.0 U	
75-15-0Carbon disulfide	5.0 U	
75-09-2Methylene chloride	5.0 U	
75-34-31,1-Dichloroethane	1.0 0	
78-93-32-Butanone	5.0 ₩	
540-59-01,2-Dichloroethylene (total)	84.8	
74-97-5Bromochloromethane	1.0 U	
67-66-3Chloroform	1.0 0	
71-55-61,1,1-Trichloroethane	1.0 0	
56-23-5Carbon tetrachloride	1.0 0	
107-06-21,2-Dichloroethane	1.0 0	
71-43-2Benzene	1.0 0	
79-01-6Trichloroethylene	380 484 80 5	AD3
78-87-51,2-Dichloropropane	1.0 U U	
75-27-4Bromodichloromethane	1.0 0	
10061-01-5cis-1,3-Dichloropropylene	1.0 0	
108-10-14-Methyl-2-pentanone		
· · · · · · · · · · · · · · · · · · ·	5.0 U	
108-88-3Toluene	5.0 U 1.0 U	
108-88-3Toluene 10061-02-6trans-1,3-Dichloropropylene	• • • • • • • • • • • • • • • • • • • •	
108-88-3Toluene 10061-02-6trans-1,3-Dichloropropylene 79-00-51,1,2-Trichloroethane	1.0 0	
108-88-3Toluene 10061-02-6trans-1,3-Dichloropropylene 79-00-51,1,2-Trichloroethane 591-78-62-Hexanone	1.0 U \	
108-88-3Toluene 10061-02-6trans-1,3-Dichloropropylene 79-00-51,1,2-Trichloroethane 591-78-62-Hexanone 127-18-4Tetrachloroethylene	1.0 U 1.0 U 1.0 U	
108-88-3Toluene 10061-02-6trans-1,3-Dichloropropylene 79-00-51,1,2-Trichloroethane 591-78-62-Hexanone 127-18-4Tetrachloroethylene 124-48-1Dibromochloromethane	1.0 U 1.0 U 1.0 U 5.0 U	
108-88-3Toluene 10061-02-6trans-1,3-Dichloropropylene 79-00-51,1,2-Trichloroethane 591-78-62-Hexanone 127-18-4Tetrachloroethylene 124-48-1Dibromochloromethane 106-93-41,2-Dibromoethane	1.0 U 1.0 U 1.0 U 5.0 U 1.0 U	
108-88-3Toluene 10061-02-6trans-1,3-Dichloropropylene 79-00-51,1,2-Trichloroethane 591-78-62-Hexanone 127-18-4Tetrachloroethylene 124-48-1Dibromochloromethane 106-93-41,2-Dibromoethane 108-90-7	1.0 U 1.0 U 1.0 U 5.0 U 1.0 U 1.0 U	
108-88-3Toluene 10061-02-6trans-1,3-Dichloropropylene 79-00-51,1,2-Trichloroethane 591-78-6Tetrachloroethylene 127-18-4Dibromochloromethane 106-93-41,2-Dibromoethane 108-90-7	1.0 U 1.0 U 1.0 U 5.0 U 1.0 U 1.0 U	
108-88-3Toluene 10061-02-6trans-1,3-Dichloropropylene 79-00-51,1,2-Trichloroethane 591-78-6Tetrachloroethylene 127-18-4Dibromochloromethane 106-93-41,2-Dibromoethane 108-90-7	1.0 U 1.0 U 1.0 U 5.0 U 1.0 U 1.0 U 1.0 U	
108-88-3Toluene 10061-02-6trans-1,3-Dichloropropylene 79-00-51,1,2-Trichloroethane 591-78-6Tetrachloroethylene 127-18-4Dibromochloromethane 106-93-41,2-Dibromoethane 108-90-7	1.0 U 1.0 U 1.0 U 5.0 U 1.0 U 1.0 U 1.0 U 1.0 U	

FORM I VOA

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DATA VALIDATION COPY

EPA SAMPLE NO.

AF6812

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Matrix: (soil/water) WATER

Lab Sample ID: 72462002

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 4P215

Level: (low/med) LOW

Date Received: 12/19/02

% Moisture: not dec.

Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: _____(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

75-25-2-----Bromoform_ 79-34-5-----1,1,2,2-Tetrachloroethane___ 1.0 U 1.0 0

u u

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DATA VALIDATION COPY

EPA SAMPLE NO.

AF6912

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Matrix: (soil/water) WATER Lab Sample ID: 72462005

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 4P218

Level: (low/med) LOW Date Received: 12/19/02

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

USS

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
		<u>-</u>	

74-87-3	5.0 5.0 5.0 1.0 5.0 6.9 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		U AO3
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FORM I VOA

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EPA SAMPLE NO.

AF6912

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Matrix: (soil/water) WATER

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 4P218

Level: (low/med) LOW

Date Received: 12/19/02

% Moisture: not dec.

Date Analyzed: 12/31/02

Lab Sample ID: 72462005

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q

CAS NO. COMPOUND

u 75-25-2-----Bromoform 1.0 U 79-34-5----1,1,2,2-Tetrachloroethane_ 1.0 0 4

FORM I VOA

OLM03.0

DATA VALIDATION COPY

Duplicate

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AF6914

SDG No.: 72462

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

CAS NO.

Lab Code: N/A Case No.: N/A SAS No.: N/A

COMPOUND

Matrix: (soil/water) WATER Lab Sample ID: 72462004

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 4P217

Level: (low/med) LOW Date Received: 12/19/02

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

USO

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Crib 110.	COLLEGUND	(49/11 01	ug/ ng/	00/1	Q
· · · · · · · · · · · · · · · · · · ·					
74-87-3	Chloromethane			1.0	U
75 01 4	Trimeri ala in a and ala				1

	Chioromethane	1.0	} U	u
75-01-4	Vinyl chloride	1.0	υ	1
74-83-9	Bromomethane	1.0	ıσ	i
75-00-3	Chloroethane	1.0		i
75-35-4	1,1-Dichloroethylene	1.0	U	i l
67-64-1	Acetone	i 5.0	iσ	
75-15-0	Carbon disulfide	5.0	U	11
75-09-2	Methylene chloride	5.0	U	1
75-34-3	1,1-Dichloroethane	1.0	Ū	11
78-93-3	2-Butanone	5.0	!	j.
540-59-0	1,2-Dichloroethylene (total)	6.5	İ	<u>i</u>
74-97-5	Bromochloromethane	1.0	Ū	u
1 67-66-3	Chloroform	1 0	Ū	11
71-55-6	1,1,1-Trichloroethane	1.0	Ū	
56-23-5	Carbon tetrachloride	1.0	U	
107-06-2	1,2-Dichloroethane	1.0	ĺυ	11
71-43-2	Benzene	1.0	ĺυ	1
79-01-6	Trichloroethylene	141 158	E D	J A03
78-87-5	1,2-Dichloropropane	1.0		u
/3-2/-4	Bromodichioromethane	1 1 0	İυ	
10061-01-5	cis-1,3-Dichloropropylene	1.0	ט	i i
108-10-1	4-Methyl-2-pentanone	j 5.0		11
108-88-3	Toluene .	1 0	Ü	ì I
10061-02-6	trans-1,3-Dichloropropylene	1.0	U	i I
79-00-5	1,1,2-Trichloroethane	1.0		i I
591-78-6	2-Hexanone	5.0	U	i i
127-18-4	Tetrachloroethylene	1.0	ĺυ	į I
124-48-1	Dibromochloromethane	1.0		j (
1 106-93-4	DIDIOMOCIIIOIOMCCIIAME			
1 700 33 4	1,2-Dibromoethane	1.0	!	i 1
108-90-7	1,2-Dibromoethane Chlorobenzene	1.0	ט	
108-90-7	1,2-Dibromoethane Chlorobenzene Ethylbenzene	1.0	ָ ט	
108-90-7 100-41-4 1330-20-7	1,2-Dibromoethane	!	ט ט	
108-90-7	1,2-Dibromoethane	1.0 1.0	ם ם ם	

FORM I VOA

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DATA VALIDATION COPY

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

AF6914

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Matrix: (soil/water) WATER

Lab Sample ID: 72462004

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 4P217

Level: (low/med) LOW

Date Received: 12/19/02

% Moisture: not dec.

Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm)

CAS NO.

COMPOUND

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

Q

75-25-2-----Bromoform_ 1.0 0 U 79-34-5----1,1,2,2-Tetrachloroethane_ 1.0 U U

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DATA VALIDATION

EPA SAMPLE NO.

AF7012

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Matrix: (soil/water) WATER Lab Sample ID: 72462006

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 4Q425

Level: (low/med) LOW Date Received: 12/19/02

% Moisture: not dec. ____ Date Analyzed: 01/02/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND (ug/L or ug/K	.g, 06/1	Q
74-87-3	Chloromethane	1.0	U VS A
75-01-4	Vinyl chloride	1.0	
74-83-9	Bromomethane	1.0	
75-00-3	Chloroethane	1.0	
75-35-4	1,1-Dichloroethylene	1.0	
67-64-1	Acetone	5.0	
75-15-0	Carbon disulfide	5.0	, , , ,
75-09-2	Methylene chloride	5.0	
75-34-3	1,1-Dichloroethane	1.0	
70 02 2	0 0	5.0	
540-59-0	1,2-Dichloroethylene (total)	1.0	
74-97-5	Bromochloromethane	1.0	
67-66-3	Chloroform	1.0	, , , ,
71-55-6	1,1,1-Trichloroethane	1.0	
56-23-5	Carbon tetrachloride	1.0	
107-06-2	1,2-Dichloroethane	1.0	
71-43-2	Benzene	1.0	
79-01-6	Trichloroethylene	2.0	
78-87-5	1,2-Dichloropropane	1.0	
75-27-4	Bromodichloromethane	1.0	
10061-01-5	cis-1,3-Dichloropropylene	1.0	. , , , ,
108-10-1	4-Methyl-2-pentanone	5.0	
108-88-3	Toluene	1.0	
10061-02-6	trans-1,3-Dichloropropylene	1.0	
79 - 00-5	1,1,2-Trichloroethane	1.0	
591-78-6	2-Hexanone	5.0	
127-18-4	Tetrachloroethylene	1.0	, , ,
124-48-1	Dibromochloromethane	1.0	11 1
106-93-4	1,2-Dibromoethane	1.0	
108-90-7	Chlorobenzene	1.0	1 1
100-41-4	Ethvlbenzene	1.0	1 1 1
1330-20-7	Xylenes (total)	1.0	
	Styrene	1.0	

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OLM03.0

EPA SAMPLE NO.

AF7012	

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

SDG No.: 72462

Matrix: (soil/water) WATER

Lab Code: N/A Case No.: N/A SAS No.: N/A

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 4Q425

Level: (low/med) LOW

Date Received: 12/19/02

Lab Sample ID: 72462006

% Moisture: not dec.

Date Analyzed: 01/02/03

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

75-25-2-----Bromoform 79-34-5-----1,1,2,2-Tetrachloroethane_

1.0 0 1.0 0

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EPA SAMPLE NO.

AF7112

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Matrix: (soil/water) WATER Lab Sample ID: 72462007

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 4Q426

Level: (low/med) LOW Date Received: 12/19/02

% Moisture: not dec. ____ Date Analyzed: 01/02/03

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q US A03 74-87-3-----Chloromethane 1.0|U 75-01-4-----Vinyl chloride 1.0 0 74-83-9-----Bromomethane___ 1.0 0 75-00-3------Chloroethane 1.0 0 75-35-4----1,1-Dichloroethylene 0.54 J 67-64-1-----Acetone 5.0 U 75-15-0-----Carbon disulfide 5.0 U 75-09-2-----Methylene chloride____ 5.0 0 75-34-3-----1,1-Dichloroethane____ 1.0 U 78-93-3-----2-Butanone_ 5.0 U 540-59-0----1,2-Dichloroethylene (total) 36.5 74-97-5-----Bromochloromethane 1.0 0 US 67-66-3-----Chloroform 1.0 0 71-55-6-----1,1,1-Trichloroethane____ 1.0|U 1.0|ប 56-23-5-----Carbon tetrachloride____ 107-06-2----1,2-Dichloroethane____ 1.0 U 71-43-2-----Benzene_ 1.0 0 79-01-6-----Trichloroethylene
78-87-5-----1,2-Dichloropropane
75-27-4-----Bromodichloromethane 41.4 1.0 0 US 1.0 U 10061-01-5----cis-1,3-Dichloropropylene____ 1.0 U 108-10-1----4-Methyl-2-pentanone 5.0|U 108-88-3-----Toluene 1.0 0 10061-02-6----trans-1,3-Dichloropropylene 1.0 0 79-00-5-----1,1,2-Trichloroethane____ 1.0 0 591-78-6----2-Hexanone_ 5.0 U 127-18-4-----Tetrachloroethylene 1.0|U 124-48-1-----Dibromochloromethane 1.0 0 106-93-4-----1,2-Dibromoethane____ 1.0 0 108-90-7-----Chlorobenzene____ 1.0 0 100-41-4-----Ethylbenzene 1.0 0 1330-20-7-----Xylenes (total)____ 1.0 0 100-42-5-----Styrene____ 1.0 0

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EPA SAMPLE NO.

AF7112

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Matrix: (soil/water) WATER

Lab Sample ID: 72462007

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 4Q426

Level: (low/med) LOW

75-25-2-----Bromoform

Date Received: 12/19/02

% Moisture: not dec.

Date Analyzed: 01/02/03

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: ____(uL)

Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO.

COMPOUND

79-34-5-----1,1,2,2-Tetrachloroethane

(ug/L or ug/Kg) UG/L Q

1.0|0 1.0 0

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AF7212

EPA SAMPLE NO.

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Lab Sample ID: 72462003 Matrix: (soil/water) WATER

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 4P216

Level: (low/med) LOW Date Received: 12/19/02

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: ____(uL) Soil Aliquot Volume: ____(uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug	/Kg) UG/	L	Q	
75-01-4 74-83-9 75-00-3 75-35-4 75-15-0 75-09-2 75-34-3 75-34-3 74-97-5 67-66-3 71-55-6 71-55-6 71-43-2 71-2-1-1 108-10-1 108-88-3 10061-02-6 79-00-5 101-1 108-90-7 101-1 108-90-7 100-41-4 1330-20-7	Carbon disulfideMethylene chloride1,1-Dichloroethane2-Butanone1,2-Dichloroethylene (total)BromochloromethaneChloroform1,1,1-TrichloroethaneCarbon tetrachloride1,2-Dichloroethane	807	1.0 1.0 1.0 1.0 1.0 1.0 5.0 57.8 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0		2-+ 3- 3 3-+ 3 3 A

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EPA SAMPLE NO.

AF7212

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Matrix: (soil/water) WATER Lab Sample ID: 72462003

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 4P216

Level: (low/med) LOW Date Received: 12/19/02

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

75-25-2-----Bromoform 1.0 U U 79-34-5-----1,1,2,2-Tetrachloroethane 1.0 U U

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VIII-153

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EPA SAMPLE NO.

TBH016

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Matrix: (soil/water) WATER Lab Sample ID: 72462001

Sample wt/vol: 5.000 (g/ml) ML Lab File ID: 4P214

Level: (low/med) LOW Date Received: 12/19/02

% Moisture: not dec. _____ Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

	(49, 1 01 49		-	
74-87-3	Chloromethane	1.0	l t t	и
75-01-4	Vinyl chloride	1.0		W
74-83-9	Bromomethane	1.0	•	1
75-00-3	Chloroethane	1.0		
75-35-4	1,1-Dichloroethylene	1.0		1
67-64-1	Acetone	5.0	1 1	
75-15-0	Carbon disulfide	5.0		
75-09-2	Methylene chloride	5.0		
75-34-3	1,1-Dichloroethane	1.0]
. 78-93-3	7-Putanone			
540-59-0	1,2-Dichloroethylene (total)	1.0		
74-97-5	Bromochloromethane	1.0		1
67-66-3	Chloroform	1.0		
71-55-6	1,1,1-Trichloroethane	1.0		
56-23-5	Carbon tetrachloride	1.0		1
107-06-2	1,2-Dichloroethane	1.0	, ·	
71-43-2	Bongono	1 7 7	, ,	1
79-01-6	Trichloroethylene 1,2-Dichloropropane	1.0	, -	-
78-87-5	1 2-Dichloropropage	1.0	, ,	
75-27-4	Bromodichloromethane	1.0	1	•
10061-01-5	cis-1,3-Dichloropropylene	1.0		1 .
108-10-1	4-Methyl-2-pentanone	5.0		['
108-88-3	Toluene			
10061-02-6	trans-1,3-Dichloropropylene	1.0	, ,	1
79-00-5	1,1,2-Trichloroethane			
591-78-6	7-Wayarana	1.0		İ
127-18-4	Tetrachloroethylene	5.0		1
124-48-1	Dibromochloromethane	1.0	-	1
106-93-4	1,2-Dibromoethane	1.0	-	
100-93-4	Chlorobongone		_	1
100-30-7	Chlorobenzene	1.0		
1330-20-7	Yulong (betal)	1.0		
100 42 6	Xylenes (total)	1.0	,	
100-42-5	Styrene	1.0	ן ט	1

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EPA SAMPLE NO.

TBH016

Lab Name: GENERAL ENGINEERING LABS Contract: N/A

Lab Code: N/A Case No.: N/A SAS No.: N/A SDG No.: 72462

Matrix: (soil/water) WATER

Lab Sample ID: 72462001

Sample wt/vol: 5.000 (g/ml) ML

Lab File ID: 4P214

Level: (low/med) LOW

% Moisture: not dec.

Date Received: 12/19/02 Date Analyzed: 12/31/02

GC Column: DB-624 ID: 0.25 (mm)

Soil Extract Volume: ____(uL)

CAS NO. COMPOUND

Dilution Factor: 1.0

Soil Aliquot Volume: ___ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

	1		ı
75-25-2Bromoform_	1.0	U	u
79-34-51,1,2,2-Tetrachloroethane	1.0	U	u
		l	i

FORM I VOA

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BATA WALLSTOOM



800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

0.71

CHAIN OF CUSTODY RECORD

COC NO .: H25Ø1Ø

PROJECT NAME: HAAF-USTs 25&26		REQUESTED PARAMETERS			LABORATORY NAME: General Engineering Laboratory	
PROJECT NUMBER: 01-1624-04-2301-200					LABORATORY A	DDRESS:
PROJECT MANAGER: Patty Stoll				Vials:	2040 Savage Roa Charleston, SC 2	
Sampler (Signature) PATRICIA A. STOLC				Bottles/	PHONE NO: (840	
Sample ID Date Collected Time Collected Matrix	VOC's			No. of	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
TBHØ16 12/18/02 0750 water	2			2		
AF6812 12/18/02 1705	2			2		
AF7212 12/18/02 1520	2			2		
AF6914 12/18/02 1300	Z			2		
AF6912 12/18/02 1300	2			5		
AF7\$12 12/18/02 1130	2			2		
AF7112 12/18/02 1015 V	2			2		
	1-1		┤╎┤┤ ┤┤ <u></u>	+		
	 	-	+++++++++++++++++++++++++++++++++++++++			
RELIMONSHED BY Date/Time RECEIVED BY:	1	Date/Time	TOTAL NUMBER OF CONTAINER	s: 14	Cooler Temperat	ure: 44
total (12/19/02 phe bound	h	12-19-02	Cooler ID:		FEDEX NUMBER	R: /
COMPANY NAME: SAIC 1101 COMPANY NAME:		1515	001			NA
RECOIVED BY: Date/Time RELINQUISHED BY: 12/19/07	:	Date/Time				
COMPANY NAME: 100 COMPANY NAME:						
RELINOUSHED BY: Date/Time RECEIVED BY: 12 -19-01		Date/Time				
COMPANY NAME:						

USACE VERTICAL PROFILE SAMPLING DECEMBER 2002

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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Lab Name: Anal	ytical Managment Laboratories	Sample ID: HA	AF-B159-1-10		
Client ID: CES	AS .	Project ID HA	AF-MCA BARRACK	s	
Matrix: W		Project Num 10	652		
Sample g/ml: 25		Lab Sample ID:	165205		
% Solids: not dec.		Date Collected:	12/4/02	Time:	9:55
Instrument ID Ins	itru	Dilution Factor:	1		
Analytical Method:	8260B	Date Analyzed:	12/5/02	Time:	18:47
Prep Method: E	PA 5030	Date Received:	12/5/02 9:40:00 AM	1	

Analytical Batch: 1501

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2
95-50 - 1	1,2-Dichlorobenzene		μg/l	U	0.141	2
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2
541-73-1	1,3-Dichlorobenzene		µg/l	U	0.189	2
142-28-9	1,3-Dichloropropane		µg/l	U	0.107	2
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2
78-93-3	2-Butanone		μg/l	U	0.481	2
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2
591-78-6	2-Hexanone		μg/l	U	0.163	2
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2
99-87-6	4-Isopropyitoluene		μg/l	U	0.1	2
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2
67-64-1	Acetone		μg/l	U	0.612	2
71-43-2	Benzene		μg/l	U	0.139	2
108-86-1	Bromobenzene		μg/l	U	0.156	2
74-97-5	Bromochloromethane		μg/l	U	0.165	2
75-27-4	Bromodichloromethane		μg/l	U	0.135	2
75-25-2	Bromoform		μg/l	U	0.163	2
74-83-9	Bromomethane		μg/l	U	0.201	2
75-15-0	Carbon disulfide		μg/l	U	0.183	2
56-23-5	Carbon tetrachloride		μg/l	U	0.137	2
108-90-7	Chlorobenzene		μg/l	U	0.156	2
75-00-3	Chloroethane		µg/l	U	0.207	2
67-66-3	Chloroform		μg/l	U	0.214	2

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name: Analytical Managment Laboratories Sample ID: HAAF-B159-1-10 Client ID: CESAS Project ID HAAF-MCA BARRACKS Matrix: W Project Num 1652 Sample g/ml: 25 Lab Sample ID: 165205 % Solids: not dec. Date Collected: 12/4/02 9:55 Time: Instrument ID Instru Dilution Factor: Analytical Method: 8260B Date Analyzed: 12/5/02 Time: 18:47

Prep Method: EPA 5030 Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1501

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/l	U	0.1	2
75-71-8	Dichlorodifluoromethane		μg/l	U	0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82-8	Isopropylbenzene		μg/l	U	0.1	2
75-09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene		μg/l	U	0.139	2
104-51-8	n-Butylbenzene		μg/l	U	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		μg/l	U	0.102	2
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2
100-42-5	Styrene		μg/l	U	0.1	2
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2
127-18-4	Tetrachloroethene		µg∕l	U	0.115	2
108-88 - 3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01 - 6	Trichloroethene		μg/l	U	0.151	2
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2
108-05-4	Vinyl acetate		μg/l	U	2	4
75-01-4	Vinyl chloride		μg/l	U	0.239	2

EPA Lab Code:KS00902 Kansas Certification: E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-1-15				
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS				
Matrix: W		Project Num 1652				
Sample g/ml:	25	Lab Sample ID: 165206				
% Solids: not	dec.	Date Collected: 12/4/02 Time: 10:00				
Instrument ID	Instru	Dilution Factor: 1				
Analytical Me	thod: 8260B	Date Analyzed: 12/5/02 Time: 19:19				
Prep Method	EPA 5030	Date Received: 12/5/02 9:40:00 AM				

Analytical Batch: 1501

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2	
71-55-6	1,1,1-Trichloroethane		μg/l	U,	0.18	2	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2	
75-34-3	1,1-Dichloroethane		μg/l	Ü	0.214	2	
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2	
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2	
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2	
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2	
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2	
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2	
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2	
78-93-3	2-Butanone		μg/l	U	0.481	2	
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2	
591-78-6	2-Hexanone		μg/l	U	0.163	2	
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2	
99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2	
67-64-1	Acetone		μg/l	U	0.612	2	
71-43-2	Benzene		μg/l	U	0.139	2	
108-86-1	Bromobenzene		μg/l	Ü	0.156	2	
74-97-5	Bromochloromethane		μg/l	U	0.165	2	
75-27-4	Bromodichloromethane		μg/l	U	0.135	2	
75-25-2	Bromoform		μg/l	U	0.163	2	
74-83-9	Bromomethane		μg/l	U	0.201	2	
75-15-0	Carbon disulfide		μg/l	U	0.183	2	
56-23-5	Carbon tetrachloride		μg/l	U	0.137	2	
108-90 - 7	Chlorobenzene		μg/l	U	0.156	2	
75-00-3	Chloroethane		μg/l	U	0.207	2	
67-66-3	Chloroform		µg∕l	U	0.214	2	

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name: A	nalytical Managment Laboratories	Sample ID: HAAF-B159-1-15	
Client ID: CE	ESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1652	
Sample g/ml:	25	Lab Sample ID: 165206	
% Solids: not de	ec.	Date Collected: 12/4/02 Time:	10:00
Instrument ID	Instru	Dilution Factor: 1	
- Analytical Metho	od: 8260B	Date Analyzed: 12/5/02 Time:	19:19
Prep Method:	EPA 5030	Date Received: 12/5/02 9:40:00 AM	

Analytical Batch: 1501

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/l	U	0.1	2
75-71-8	Dichlorodifluoromethane		μg/l	U	0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82 - 8	Isopropylbenzene		μg/l	U	0.1	2
75-09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene		μg/l	U	0.139	2
104-51-8	n-Butylbenzene		μg/l	U	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		μg/l	U	0.102	2
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2
100-42-5	Styrene		μg/l	U	0.1	2
98-06-6	tert-Butylbenzene		µg/l	U	0.17	2
127-18-4	Tetrachloroethene		μg/l	U	0.115	2
108-88-3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01-6	Trichloroethene		μg/l	U	0.151	2
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2
108-05-4	Vinyl acetate		μg/l	U	2	4
75-01-4	Vinyl chloride		μg/l	U	0.239	2

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-1-20
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W		Project Num 1652
Sample g/ml	: 25	Lab Sample ID: 165207
% Solids: no	t dec.	Date Collected: 12/4/02 Time: 10:05
Instrument IE) Instru	Dilution Factor: 1
Analytical Me	ethod: 8260B	Date Analyzed: 12/5/02 Time: 19:52
Prep Metho	d: EPA 5030	Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1501

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2	
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2	
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2	
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2	
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2	
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2	
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2	
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2	
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2	
78-93-3	2-Butanone		μg/l	U	0.481	2	
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2	
591-78-6	2-Hexanone		μg/l	U	0.163	2	
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2	
99-87-6	4-isopropyitoluene		μg/l	U	0.1	2	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2	
67-64-1	Acetone		µg/l	U	0.612	2	
71-43-2	Benzene		μg/l	U	0.139	2	
108-86-1	Bromobenzene		μg/l	U	0.156	2	
74-97-5	Bromochloromethane		µg/l	U	0.165	2	
75-27-4	Bromodichloromethane		μg/l	U	0.135	2	
75-25-2	Bromoform		μg/l	U	0.163	2	
74-83-9	Bromomethane		μg/l	Ų	0.201	2	
75-15-0	Carbon disulfide		μg/l	U	0.183	2	
56-23-5	Carbon tetrachloride		μg/l	Ų	0.137	2	
108-90-7	Chlorobenzene		μg/l	Ų	0.156	2	
75-00-3	Chloroethane		μg/l	U	0.207	2	
67-66-3	Chloroform		μg/l	Ü	0.214	2	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Sample ID: HAAF-B159-1-20 Analytical Managment Laboratories Lab Name: HAAF-MCA BARRACKS Project ID CESAS Client ID: Project Num 1652 Matrix: W Lab Sample ID: 165207 Sample g/ml: 25 Date Collected: 12/4/02 Time: 10:05 % Solids: not dec. Dilution Factor: Instrument ID Instru 19:52 Date Analyzed: 12/5/02 Time: Analytical Method: 8260B Date Received: 12/5/02 9:40:00 AM Prep Method: EPA 5030

Prep Method: EPA 5030

Analytical Batch: 1501

Analytical batch.	1501					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01 - 5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/l	U	0.1	2
75-71-8	Dichlorodifluoromethane		μg/l	U	0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82-8	Isopropylbenzene		μg/l	U	0.1	2
75-09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene		μg/l	U	0.139	2
104-51-8	n-Butylbenzene		μg/l	U	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		μg/l	U	0.102	2
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2
100-42-5	Styrene		μg/l	U	0.1	2
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2
127-18-4	Tetrachloroethene		μg/l	U	0.115	2
108-88-3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01-6	Trichloroethene	2.44	μg/l		0.151	2
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2
108-05-4	Vinyl acetate		μg/l	U	2	4
75-01 - 4	Vinyl chloride		μg/l	U	0.239	2

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-1-25	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1652	
Sample g/ml	1: 25	Lab Sample ID: 165208	
% Solids: no	ot dec.	Date Collected: 12/4/02 Time: 10:15	
Instrument II	D Instru	Dilution Factor: 5	
Analytical M	ethod: 8260B	Date Analyzed: 12/5/02 Time: 20:25	
Prep Metho	od: EPA 5030	Date Received: 12/5/02 9:40:00 AM	************

Analytical Batch: 1501

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87 - 5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chiorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene	0.98	μg/l	J	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902

Kansas Certification:E-10254

_ab Name: A	nalytical Managment Laboratories	Sample ID:	HAAF-B159-1-25		
Client ID: C	ESAS .	Project ID <u>H</u>	HAAF-MCA BARRACK	S	
Matrix: W		Project Num	1652		
Sample g/ml:	25	Lab Sample ID): <u>165208</u>		
% Solids: not de	∋c.	Date Collected	l: <u>12/4/02</u>	Time:	10:15
Instrument ID	Instru	Dilution Factor	: 5		
Analytical Metho	od: 8260B	Date Analyzed	l: <u>12/5/02</u>	Time:	20:25
Prep Method:	EPA 5030	Date Received	i: 12/5/02 9:40:00 AN	Λ	
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Analytical Batch: 1501

Analytical batch.	1501						
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
74-87-3	Chloromethane		μg/l	U	0.865	10	
156-59-2	cis-1,2-Dichloroethene	2.35	μg/l	J	0.755	10	
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10	
124-48-1	Dibromochloromethane		μg/l	U	0.665	10	
74-95-3	Dibromomethane		μg/l	U	0.5	10	
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10	
100-41-4	Ethylbenzene		μg/l	U	0.5	10	
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10	
98-82-8	Isopropylbenzene		μg/l	U	0.5	10	
75-09-2	Methylene chloride		μg/l	U	1.99	10	
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10	
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10	
91-20-3	Naphthalene		μg/l	U	0.695	10	
104-51-8	n-Butylbenzene		µg/l	U	0.7	10	
103 - 65-1	n-Propylbenzene		μg/l	U	0.5	10	
95-47-6	o-Xylene		μg/l	U	0.51	10	
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10	
100-42-5	Styrene		μg/l	U	0.5	10	
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10	
127-18-4	Tetrachloroethene		μg/l	U	0.575	10	
108-88-3	Toluene		μg/l	U	0.525	10	
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10	
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10	
79-01-6	Trichloroethene	3.63	μg/l	j	0.755	10	
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10	
108-05-4	Vinyl acetate		μg/l	U	10	20	
75-01-4	Vinyl chloride		μg/l	U	1.2	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-1-30	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1652	
Sample g/ml	: 25	Lab Sample ID: 165209	
% Solids: no	ot dec.	Date Collected: 12/4/02 Time: 10:25	
Instrument II	D Instru	Dilution Factor: 10	
Analytical M	ethod: 8260B	Date Analyzed: 12/5/02 Time: 20:57	
Prep Metho	d: EPA 5030	Date Received: 12/5/02 9:40:00 AM	

Analytical Batch: 1501

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	2.22	20	
71-55-6	1,1,1-Trichloroethane		μg/l	U	1.8	20	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	1	20	
79-00-5	1,1,2-Trichloroethane		μg/l	U	1.43	20	
75-34-3	1,1-Dichloroethane		μg/l	Ų	2.14	20	
75-35-4	1,1-Dichloroethene		μg/l	U	1.83	20	
563-58-6	1,1-Dichloropropene		μg/l	U	1	20	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	1.42	20	
96-18-4	1,2,3-Trichloropropane		μg/l	U	1.07	20	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	1.08	20	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	1.11	20	
106-93-4	1,2-Dibromoethane		μg/l	U	1.17	20	
95-50-1	1,2-Dichlorobenzene		μg/l	U	1.41	20	
107-06-2	1,2-Dichloroethane		μg/l	U	1.82	20	
78-87 - 5	1,2-Dichloropropane		μg/l	U	1.19	20	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	1.13	20	
541-73-1	1,3-Dichlorobenzene		μg/l	U	1.89	20	
142-28-9	1,3-Dichloropropane		μg/l	U	1.07	20	
106-46-7	1,4-Dichlorobenzene		μg/l	U	1.5	20	
590-20-7	2,2-Dichloropropane		μg/l	U	1.08	20	
78-93-3	2-Butanone		μg/l	U	4.81	20	
95-49-8	2-Chlorotoluene		μg/l	U	1.06	20	
591-78-6	2-Hexanone		μg/l	U	1.63	20	
106-43-4	4-Chlorotoluene		μg/l	U	1	20	
99-87-6	4-Isopropyltoluene		µg/l	U	1	20	
108-10-1	4-Methyl-2-pentanone		μg/l	U	1.28	20	
67-64-1	Acetone		μg/l	U	6.12	20	
71-43-2	Benzene		μg/l	U	1.39	20	
108-86-1	Bromobenzene		μg/l	U	1.56	20	
74-97-5	Bromochloromethane		μg/l	U	1.65	20	
75-27-4	Bromodichloromethane		μg/l	U	1.35	20	
75-25-2	Bromoform		μg/l	U	1.63	20	
74-83-9	Bromomethane		μg/l	Ų	2.01	20	
75-15-0	Carbon disulfide		μg/l	U	1.83	20	
56-23-5	Carbon tetrachloride		μg/l	U	1.37	20	
108-90-7	Chlorobenzene		μg/l	U	1.56	20	
75-00-3	Chloroethane		μg/l	U	2.07	20	
67-66-3	Chloroform		μg/l	U	2.14	20	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-1-30	~~~~
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1652	
Sample g/ml:	: 25	Lab Sample ID: 165209	
% Solids: not	t dec.	Date Collected: 12/4/02 Time: 10:25	
Instrument IE) Instru	Dilution Factor: 10	
Analytical Me	ethod: 8260B	Date Analyzed: 12/5/02 Time: 20:57	
Prep Method	d: EPA 5030	Date Received: 12/5/02 9:40:00 AM	

Analytical Batch: 1501

Analytical batch.	1301					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	1.73	20
156-59-2	cis-1,2-Dichloroethene		μg/l	U	1.51	20
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	1	20
124-48-1	Dibromochloromethane		μg/l	U	1.33	20
74-95-3	Dibromomethane		μg/l	U	1	20
75-71-8	Dichlorodifluoromethane		μg/l	U	5	20
100-41-4	Ethylbenzene		μg/l	U	1	20
87-68-3	Hexachlorobutadiene		μg/l	U	1.92	20
98-82-8	isopropylbenzene		μg/l	U	1	20
75-09-2	Methylene chloride		μg/l	U	3.98	20
1634-04-4	Methyl-tert-butyl-ether		μg/l	IJ	1	20
m+p xylene	m-Xylene and p-Xylene		μg/l	U	2.16	20
91-20-3	Naphthalene		μg/l	U	1.39	20
104-51-8	n-Butylbenzene		μg/l	U	1.4	20
103-65-1	n-Propylbenzene		μg/l	U	1	20
95-47-6	o-Xylene		μg/l	U	1.02	20
135-98-8	sec-Butylbenzene		μg/l	U	1.33	20
100-42-5	Styrene		μg/l	U	1	20
98-06-6	tert-Butylbenzene		μg/l	U	1.7	20
127-18-4	Tetrachloroethene		μg/l	U	1.15	20
108-88-3	Toluene		μg/l	U	1.05	20
156-60-5	trans-1,2-Dichloroethene		μg/l	U	1.52	20
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	1	20
79-01-6	Trichloroethene		μg/l	U	1.51	20
75-69-4	Trichlorofluoromethane		μg/l	U	1.11	20
108-05-4	Vinyl acetate		μg/l	U	20	40
75-01-4	Vinyl chloride		μg/l	U	2.39	20

Lab Name:	Analytical Managment Laboratories	Sample ID: H	AAF-B159-1-35		
Client ID:	CESAS	Project ID H	AAF-MCA BARRACK	3	
Matrix: W		Project Num	1652		
 Sample g/ml	: 25	Lab Sample ID:	: 165210		
% Solids: no	ot dec.	Date Collected:	12/4/02	Time:	10:40
Instrument II	D Instru	Dilution Factor:	5		
Analytical Me	ethod: 8260B	Date Analyzed:	12/5/02	Time:	21:30
Prep Metho	d: EPA 5030	Date Received:	: 12/5/02 9:40:00 AM		

Analytical Batch: 1501

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35 - 4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87 - 61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78 - 87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Sample ID: HAAF-B159-1-35 Lab Name: Analytical Managment Laboratories Project ID HAAF-MCA BARRACKS CESAS Client ID: Project Num 1652 W Matrix: Lab Sample ID: 165210 Sample g/ml: 25 Date Collected: 12/4/02 Time: 10:40 % Solids: not dec. Dilution Factor: 5 Instrument ID Instru Date Analyzed: 12/5/02 Time: 21:30 Analytical Method: 8260B Date Received: 12/5/02 9:40:00 AM Prep Method: EPA 5030

Analytical Batch: 1501

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	Ų	0.5	10
75-71 - 8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47-6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	Ų	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
108-05-4	Vinyl acetate		μg/l	U	10	20
75-01-4	Vinyl chloride		μg/l	U	1.2	10

Analytical Managment Laboratories Sample ID: HAAF-B159-1-40 Lab Name: CESAS Project ID HAAF-MCA BARRACKS Client ID: Project Num 1652 Matrix: W Lab Sample ID: 165212 Sample g/ml: 25 Date Collected: 12/4/02 % Solids: not dec. Time: 11:00 Dilution Factor: 5 Instrument ID Instru 8260B Date Analyzed: 12/5/02 Time: 22:36 Analytical Method: Prep Method: EPA 5030 Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1501

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74 - 97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Sample ID: HAAF-B159-1-40 Analytical Managment Laboratories Lab Name: Project ID HAAF-MCA BARRACKS CESAS Client ID: Project Num 1652 W Matrix: Lab Sample ID: 165212 Sample g/ml: 25 12/4/02 Date Collected: Time: 11:00 % Solids: not dec. Dilution Factor: 5 Instrument ID Instru Date Analyzed: 12/5/02 Time: 22:36 Analytical Method: 8260B Date Received: 12/5/02 9:40:00 AM Prep Method: EPA 5030

Analytical Batch: 1501

Analytical Batch:	1501					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene	14.7	μg/l		0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	U	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		µg∕l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47-6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01 - 6	Trichloroethene	116	μg/l		0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
108-05-4	Vinyl acetate		μg/l	U	10	20
75-01-4	Vinyl chloride		μg/l	U	1.2	10

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-1-45	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W	1	Project Num 1652	
Sample g/m	l: 25	Lab Sample ID: 165213	
% Solids: no	ot dec.	Date Collected: 12/4/02 Time: 11	:20
Instrument I	D Instru,	Dilution Factor: 5	
Analytical M	ethod: 8260B	Date Analyzed: 12/5/02 Time: 2	3:08
Prep Metho	od: EPA 5030	Date Received: 12/5/02 9:40:00 AM	
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Analytical Batch: 1501

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34 - 5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34 - 3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		µg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83 - 9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23 - 5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Sample ID: HAAF-B159-1-45					
Project ID HAAF-MCA BARRACKS					
Project Num 1652					
Lab Sample ID: 165213					
Date Collected: 12/4/02 Time: 11:20					
Dilution Factor: 5					
Date Analyzed: 12/5/02 Time: 23:08					
Date Received: 12/5/02 9:40:00 AM					

Analytical Batch: 1501

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene	3.4	μg/l	J	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/i	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	U	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		µg∕l	U	0.5	10
95-47-6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene	12.7	μg/l		0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
108-05-4	Vinyl acetate		μg/l	U	10	20
75-01-4	Vinyl chloride		μg/l	U	1.2	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name: Analytical Managment Laboratories	Sample ID: HAAF-B159-2-10
Client ID: CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W	Project Num 1665
Sample g/ml: 25	Lab Sample ID: 166504
% Solids: not dec.	Date Collected: 12/6/02 Time: 12:25
Instrument ID Instru	Dilution Factor: 5
Analytical Method: 8260B	Date Analyzed: 12/9/02 Time: 17:29
Prep Method: EPA 5030	Date Received: 12/7/02 11:15:00 AM

Analytical Batch: 1509

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	Ų	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	Ų	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902

Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B15	9-2-10
Client ID:	CESAS	Project ID HAAF-MC	A BARRACKS
Matrix: W		Project Num 1665	
Sample g/ml	l: 25	Lab Sample ID: 16650	04
% Solids: no	ot dec.	Date Collected: 12/6/0	2 Time: 12:25
Instrument II	D Instru	Dilution Factor: 5	
Analytical M	ethod: 8260B	Date Analyzed: 12/9/0	2 Time: 17:29
Prep Metho	od: EPA 5030	Date Received: 12/7/0	2 11:15:00 AM
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Analytical Batch: 1509

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	Ų	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	U	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47 - 6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
75-01-4	Vinyl chloride		μg/l	Ų	1.2	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

ab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-2-15	
Client ID:	CESAS	Project ID HAAF-MCA BARRACK	S
Matrix: W		Project Num 1665	
Sample g/ml	1: 25	Lab Sample ID: 166505	
% Solids: no	ot dec.	Date Collected: 12/6/02	Time: 12:35
Instrument II	D Instru	Dilution Factor: 5	
Analytical M	ethod: 8260B	Date Analyzed: 12/9/02	Time: 18:01
Prep Metho	od: EPA 5030	Date Received: 12/7/02 11:15:00 A	M
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Analytical Batch: 1509

Analytical Batch:	1009					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10
95-50-1	1,2-Dichlorobenzene		μg/l	Ų	0.705	10
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10
590-20-7	2,2-Dichloropropane		µg∕l	U	0.54	10
78-93-3	2-Butanone		μg/l	U	2.41	10
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10
591-78-6	2-Hexanone		μg/l	U	0.815	10
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10
67-64-1	Acetone		μg/l	U	3.06	10
71-43-2	Benzene		μg/l	U	0.695	10
108-86-1	Bromobenzene		μg/l	U	0.78	10
74-97-5	Bromochloromethane		μg/l	U	0.825	10
75-27-4	Bromodichloromethane		μg/l	U	0.675	10
75-25-2	Bromoform		μg/l	U	0.815	10
74-83-9	Bromomethane		μg/l	U	1.01	10
75-15-0	Carbon disulfide		μg/l	U	0.915	10
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10
108-90-7	Chlorobenzene		μg/l	U	0.78	10
75-00-3	Chloroethane		μg/l	U	1.03	10
67-66-3	Chloroform		μg/l	U	1.07	10

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-2-15	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1665	
Sample g/ml	: 25	Lab Sample ID: 166505	
% Solids: no	t dec.	Date Collected: 12/6/02 Time: 12:35	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Instrument I) Instru	Dilution Factor: 5	
Analytical Me	ethod: 8260B	Date Analyzed: 12/9/02 Time: 18:01	
Prep Metho	d: EPA 5030	Date Received: 12/7/02 11:15:00 AM	

Analytical Batch: 1509

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	U	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47-6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		µg∕l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
75-01-4	Vinyl chloride		μg/l	U	1.2	10

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-2-20	Sample ID: HAAF-B159-2-20	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	Project ID HAAF-MCA BARRA	
Matrix: W		Project Num 1665	Project Num 1665	
 Sample g/ml	: 25	Lab Sample ID: 166507	Lab Sample ID: 166507	
% Solids: no	ot dec.	Date Collected: 12/6/02 Time: 12:50	Date Collected: 12/6/02	
Instrument II	D Instru	Dilution Factor: 5	Dilution Factor: 5	
Analytical M	ethod: 8260B	Date Analyzed: 12/9/02 Time: 19:06	Date Analyzed: 12/9/02	
Prep Metho	d: EPA 5030	Date Received: 12/7/02 11:15:00 AM	Date Received: 12/7/02 11:15:0	

Analytical Batch: 1509

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	υ	0.5	10
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10
590-20 - 7	2,2-Dichloropropane		μg/l	U	0.54	10
78-93-3	2-Butanone		μg/l	U	2.41	10
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10
591-78-6	2-Hexanone		μg/l	U	0.815	10
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10
99-87 - 6	4-Isopropyltoluene		μg/l	U	0.5	10
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10
67-64-1	Acetone		μg/l	U	3.06	10
71-43-2	Benzene		µg∕l	U	0.695	10
108-86-1	Bromobenzene		μg/l	U	0.78	10
74-97-5	Bromochloromethane		μg/l	U	0.825	10
75-27-4	Bromodichloromethane		μg/l	U	0.675	10
75-25 - 2	Bromoform		μg/l	U	0.815	10
74-83-9	Bromomethane		µg∕l	U	1.01	10
75-15-0	Carbon disulfide		μg/l	U	0.915	10
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10
108-90-7	Chlorobenzene		μg/l	U	0.78	10
75-00-3	Chloroethane		μg/l	Ü	1.03	10
67-66-3	Chloroform		μg/l	U	1.07	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

Sample ID: HAAF-B159-2-20 Lab Name: Analytical Managment Laboratories Project ID HAAF-MCA BARRACKS Client ID: **CESAS** W Project Num 1665 Matrix: 166507 Sample g/ml: Lab Sample ID: 25 12:50 Date Collected: 12/6/02 Time: % Solids: not dec. Dilution Factor: 5 Instrument ID Instru 12/9/02 19:06 Analytical Method: 8260B Date Analyzed: Time: 12/7/02 11:15:00 AM EPA 5030 Date Received: Prep Method:

Analytical Batch:

1509 RESULT Units Q MDL MOL COMPOUND CAS NO. μg/l U 0.865 10 Chloromethane 74-87-3 0.755 U 10 156-59-2 cis-1,2-Dichloroethene μg/l U 0.5 10 μg/l 10061-01-5 cis-1,3-Dichloropropene 0.665 10 U 124-48-1 Dibromochloromethane μg/l U 0.5 10 74-95-3 Dibromomethane μg/l Dichlorodifluoromethane μg/l U 2.5 10 75-71-8 U 0.5 10 Ethylbenzene µg/l 100-41-4 0.96 U 10 87-68-3 Hexachlorobutadiene μg/l Ū 0.5 10 98-82-8 Isopropylbenzene μg/l 1.99 75-09-2 Methylene chloride $\mu g/I$ U 10 U 0.5 10 1634-04-4 Methyl-tert-butyl-ether μg/l U 1.08 10 m-Xylene and p-Xylene µg/l m+p xylene U 0.695 10 91-20-3 Naphthalene μg/l n-Butylbenzene U 0.7 10 104-51-8 μg/l U 0.5 10 103-65-1 n-Propylbenzene μg/l 95-47-6 o-Xylene µg/l U 0.51 10 U 0.665 10 135-98-8 sec-Butylbenzene μg/l U 0.5 10 100-42-5 Styrene μg/l U 0.85 10 98-06-6 tert-Butylbenzene μg/l U 0.575 10 127-18-4 Tetrachloroethene μg/l 0.525 U 10 108-88-3 Toluene μg/l μg/l 156-60-5 trans-1,2-Dichloroethene U 0.76 10 U 10061-02-6 trans-1,3-Dichloropropene μg/l 0.5 10 μg/l Trichloroethene U 0.755 10 79-01-6

EPA Lab Code:KS00902 Kansas Certification: E-10254

75-69-4

75-01-4

Trichlorofluoromethane

Vinyl chloride

FORM I VOA - Equivalent

0.555

1.2

10

10

U

U

μg/l

μg/I

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-2-25	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1665	
Sample g/ml	: 25	Lab Sample ID: 166508	
% Solids: no	t dec.	Date Collected: 12/6/02 Time: 13:05	
Instrument II	O Instru	Dilution Factor: 5	
Analytical M	ethod: 8260B	Date Analyzed: 12/9/02 Time: 19:38	
Prep Metho	d: EPA 5030	Date Received: 12/7/02 11:15:00 AM	

Analytical Batch: 1509

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10
563-58-6	1,1-Dichloropropene		μg/l	Ü	0.5	10
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10
78-93-3	2-Butanone		µg/l	U	2.41	10
95-49-8	2-Chlorotoluene		µg/l	U	0.53	10
591-78-6	2-Hexanone		μg/l	U	0.815	10
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10
67-64-1	Acetone		μg/l	U	3.06	10
71-43-2	Benzene		μg/l	U	0.695	10
108-86-1	Bromobenzene		μg/l	U	0.78	10
74-97-5	Bromochloromethane		μg/l	U	0.825	10
75-27-4	Bromodichloromethane		μg/l	U	0.675	10
75-25-2	Bromoform		μg/l	U	0.815	10
74-83-9	Bromomethane		μg/l	U	1.01	10
75-15-0	Carbon disulfide		μg/l	U	0.915	10
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10
108-90-7	Chlorobenzene		μg/l	U	0.78	10
75-00-3	Chloroethane		μg/l	U	1.03	10
67-66-3	Chloroform		μg/l	U	1.07	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-2-25	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1665	_
Sample g/ml:	: 25	Lab Sample ID: 166508	
% Solids: not	t dec.	Date Collected: 12/6/02 Time: 13:05	
Instrument IC	D Instru	Dilution Factor: 5	
Analytical Me	ethod: 8260B	Date Analyzed: 12/9/02 Time: 19:38	
Prep Method	d: <u>EPA 5030</u>	Date Received: 12/7/02 11:15:00 AM	

Analytical Batch: 1509

Analytical Date.	1000						
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
74 - 87-3	Chloromethane		μg/l	U	0.865	10	
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10	
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10	
124-48-1	Dibromochloromethane		μg/l	U	0.665	10	
74-95-3	Dibromomethane		μg/l	Ų	0.5	10	
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10	
100-41-4	Ethylbenzene		μg/l	U	0.5	10	
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10	
98-82-8	isopropylbenzene		μg/l	U	0.5	10	
75-09-2	Methylene chloride		μg/l	U	1.99	10	
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10	
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10	
91-20-3	Naphthalene		μg/l	U	0.695	10	
104-51-8	n-Butylbenzene		μg/l	U	0.7	10	
103-65-1	n-Propylbenzene		μg/l	U	0.5	10	
95-47-6	o-Xylene		μg/l	U	0.51	10	
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10	
100-42-5	Styrene		μg/l	U	0.5	10	
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10	
127-18-4	Tetrachloroethene		μg/l	U	0.575	10	
108-88-3	Toluene		μg/l	U	0.525	10	
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10	
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10	
79-01-6	Trichloroethene		μg/l	U	0.755	10	
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10	
75-01-4	Vinyl chloride		μg/l	U	1.2	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Sample ID: HAAF-B159-2-30 Lab Name: Analytical Managment Laboratories Project ID HAAF-MCA BARRACKS CESAS Client ID: Project Num 1665 Matrix: W Lab Sample ID: 166509 Sample g/ml: 25 Date Collected: 12/6/02 % Solids: not dec. 13:20 Time: Instrument ID Instru Dilution Factor: 8260B Analytical Method: Date Analyzed: 12/9/02 Time: 20:10 Date Received: 12/7/02 11:15:00 AM

Prep Method: EPA 5030

Analytical Batch: 1509

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2
78-93-3	2-Butanone		μg/l	U	0.481	2
95-49 - 8	2-Chlorotoluene		μg/l	U	0.106	2
591-78-6	2-Hexanone		μg/l	U	0.163	2
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2
99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2
67-64-1	Acetone		μg/l	U	0.612	2
71-43-2	Benzene		μg/l	U	0.139	2
108-86-1	Bromobenzene		μg/l	U	0.156	2
74-97-5	Bromochloromethane		μg/l	U	0.165	2
75-27-4	Bromodichloromethane		μg/l	U	0.135	2
75-25-2	Bromoform		μg/l	U	0.163	2
74-83-9	Bromomethane		μg/l	U	0.201	2
75-15-0	Carbon disulfide		μg/l	U	0.183	2
56-23-5	Carbon tetrachloride		μg/l	U	0.137	2
108-90-7	Chlorobenzene		μg/l	U	0.156	2
75-00-3	Chloroethane		μg/l	U	0.207	2
67-66-3	Chloroform		μg/l	U	0.214	2

EPA Lab Code:KS00902

Kansas Certification: E-10254

Sample ID: HAAF-B159-2-30 Analytical Managment Laboratories Lab Name: Project ID HAAF-MCA BARRACKS CESAS Client ID: Project Num 1665 Matrix: W Lab Sample ID: 166509 Sample g/ml: 25 Date Collected: 12/6/02 Time: 13:20 % Solids: not dec. Dilution Factor: Instrument ID Instru Date Analyzed: 12/9/02 Time: 20:10 Analytical Method: 8260B Date Received: 12/7/02 11:15:00 AM Prep Method: EPA 5030

Analytical Batch: 1509

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/!	U	0.1	2
75-71-8	Dichlorodifluoromethane		μg/l	U	0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82-8	Isopropylbenzene		μg/l	U	0.1	2
75-09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene		μg/l	U	0.139	2
104-51-8	n-Butylbenzene		μg/l	U	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		μg/l	U	0.102	2
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2
100-42-5	Styrene		μg/l	U	0.1	2
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2
127-18-4	Tetrachloroethene		μg/l	U	0.115	2
108-88-3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01 - 6	Trichloroethene		μg/l	U	0.151	2
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2
75-01-4	Vinyl chloride		μg/l	U	0.239	2

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HA	AAF-B159-2-35	
Client ID:	CESAS	Project ID HA	AAF-MCA BARRACK	S
Matrix: W		Project Num _1	1665	
Sample g/ml:	25	Lab Sample ID:	166511	
% Solids: not	dec	Date Collected:	12/6/02	Time: 13:30
Instrument ID	Instru	Dilution Factor:	1	
Analytical Me	thod: 8260B	Date Analyzed:	12/9/02	Time: 21:15
Prep Method	I: _EPA 5030	Date Received:	12/7/02 11:15:00 A	М

Analytical Batch: 1509

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2
78 - 87-5	1,2-Dichloropropane		μg/l	U	0.119	2
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2
78-93-3	2-Butanone		μg/l	U	0.481	2
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2
591 - 78-6	2-Hexanone		μg/l	U	0.163	2
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2
99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2
67-64-1	Acetone		μg/l	U	0.612	2
71-43-2	Benzene		μg/l	U	0.139	2
108-86-1	Bromobenzene		μg/l	U	0.156	2
74-97-5	Bromochloromethane		μg/l	U	0.165	2
75-27-4	Bromodichloromethane		μg/l	U	0.135	2
75-25-2	Bromoform		μg/l	U	0.163	2
74-83-9	Bromomethane		μg/l	U	0.201	2
75-15-0	Carbon disulfide		μg/l	U	0.183	2
56-23-5	Carbon tetrachloride		μg/l	U	0.137	2
108-90-7	Chlorobenzene		μg/l	U	0.156	2
75-00-3	Chloroethane		μg/l	U	0.207	2
67-66-3	Chloroform		μg/l	U	0.214	2

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-2-35	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1665	
Sample g/ml:	: 25	Lab Sample ID: 166511	
% Solids: not	t dec.	Date Collected: 12/6/02 Time: 13:30	
Instrument IE) Instru	Dilution Factor: 1	
Analytical Me	ethod: 8260B	Date Analyzed: 12/9/02 Time: 21:15	
Prep Method	d: EPA 5030	Date Received: 12/7/02 11:15:00 AM	

Analytical Batch: 1509

Allalytical batch.	1509					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/l	Ų	0.1	2
75-71 - 8	Dichlorodifluoromethane		μg/l	U	0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82-8	Isopropylbenzene		μg/l	U	0.1	2
75-09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene		μg/l	U	0.139	2
104-51-8	n-Butylbenzene		μg/l	U	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		μg/l	U	0.102	2
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2
100-42-5	Styrene		μg/l	U	0.1	2
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2
127-18-4	Tetrachloroethene		μg/l	U	0.115	2
108-88-3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01-6	Trichloroethene		μg/l	U	0.151	2
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2
75-01-4	Vinyl chloride		μg/l	U	0.239	2

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-2-40	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1665	
Sample g/ml	: 25	Lab Sample ID: 166512	
% Solids: no	t dec.	Date Collected: 12/6/02 Time: 14:10	
Instrument II	O Instru	Dilution Factor: 1	
Analytical Me	ethod: 8260B	Date Analyzed: 12/9/02 Time: 21:47	
Pren Metho	d: EPA 5030	Date Received: 12/7/02 11:15:00 AM	

Prep Method: EPA 5030

Analytical Batch: 1509

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2	
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2	
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2	
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2	
87- 61-6	1,2,3-Trichlorobenzene		μg/I	U	0.142	2	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2	
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2	
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2	
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2	
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2	
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2	
78-93-3	2-Butanone		μg/l	U	0.481	2	
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2	
591-78-6	2-Hexanone		μg/l	U	0.163	2	
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2	
99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2	
67-64-1	Acetone		μg/l	U	0.612	2	
71-43-2	Benzene		μg/l	U	0.139	2	
108-86-1	Bromobenzene		μg/l	U	0.156	2	
74-97-5	Bromochloromethane		μg/l	U	0.165	2	
75-27-4	Bromodichloromethane		μg/l	U	0.135	2	
75-25-2	Bromoform		µg/l	U	0.163	2	
74-83-9	Bromomethane		μg/l	U	0.201	2	
75-15-0	Carbon disulfide		µg/l	U	0.183	2	
56-23-5	Carbon tetrachloride		µg/l	U	0.137	2	
108-90 - 7	Chlorobenzene		μg/l	U	0.156	2	
75-00-3	Chloroethane		μg/l	U	0.207	2	
67-66-3	Chloroform		µg/l	U	0.214	2	

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name: Analytical Ma	nagment Laboratories	Sample ID: HA	AF-B159-2-40		
Client ID: CESAS		Project ID HA	AF-MCA BARR	ACKS	
Matrix: W		Project Num 1	665		
Sample g/ml: 25		Lab Sample ID:	166512		
% Solids: not dec.		Date Collected:	12/6/02	Time: _14:10	
Instrument ID Instru		Dilution Factor:	1		
Analytical Method: 8260	3	Date Analyzed:	12/9/02	Time: 21:47	
Prep Method: EPA 5030		Date Received:	12/7/02 11:15:	00 AM	

Analytical Batch:	1509						
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
74-87-3	Chloromethane		μg/l	U	0.173	2	
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2	
10061 - 01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2	
124-48-1	Dibromochloromethane		μg/l	U	0.133	2	
74-95-3	Dibromomethane		μg/l	U	0.1	2	
75-71-8	Dichlorodifluoromethane		μg/l	U	0.5	2	
100-41-4	Ethylbenzene		μg/l	U	0.1	2	
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2	
98-82-8	Isopropylbenzene		μg/l	U	0.1	2	
75-09-2	Methylene chloride		μg/l	U	0.398	2	
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2	
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2	
91-20-3	Naphthalene		μg/l	U	0.139	2	
104-51 - 8	n-Butylbenzene		μg/l	U	0.14	2	
103-65 - 1	n-Propylbenzene		μg/l	U	0.1	2	
95-47-6	o-Xylene		μg/l	U	0.102	2	
135-98 - 8	sec-Butylbenzene		μg/l	U	0.133	2	
100-42-5	Styrene		μg/l	U	0.1	2	
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2	
127-18-4	Tetrachloroethene		μg/l	U	0.115	2	
108-88-3	Toluene		μg/l	U	0.105	2	
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2	
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2	
79-01-6	Trichloroethene		µg/l	U	0.151	2	
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2	
75-01-4	Vinyl chloride		μg/l	U	0.239	2	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-2-45	Sample ID: HAAF-B159-2-45	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	Project ID HAAF-MCA BARR	
Matrix: W		Project Num 1665	Project Num 1665	
Sample g/ml	: 25	Lab Sample ID: 166513	Lab Sample ID: 166513	
% Solids: no	t dec.	Date Collected: 12/6/02 Time: 14:40	Date Collected: 12/6/02	
Instrument I) Instru	Dilution Factor: 1	Dilution Factor: 1	
Analytical Me	ethod: 8260B	Date Analyzed: 12/9/02 Time: 22:19	Date Analyzed: 12/9/02	
Prep Method	d: EPA 5030	Date Received: 12/7/02 11:15:00 AM	Date Received: 12/7/02 11:15:	

Analytical Batch: 1509

630-20-6 1,1,1,2-Tetrachloroethane µg/l U 0.222 2 71-55-6 1,1,1-Trichloroethane µg/l U 0.18 2 79-34-5 1,1,2-Tetrachloroethane µg/l U 0.14 2 75-34-3 1,1-Dichloroethane µg/l U 0.183 2 563-58-6 1,1-Dichloropropene µg/l U 0.183 2 563-58-6 1,1-Dichloropropene µg/l U 0.142 2 86-18-8 1,2-Trichlorobenzene µg/l U 0.107 2 96-18-4 1,2,3-Trichlorobenzene µg/l U 0.107 2 106-93-4 1,2,4-Trimethylbenzene µg/l U 0.108 2 95-60-1 1,2-Dichlorobenzene µg/l U 0.111 2 107-06-2 1,2-Dichlorobenzene µg/l U 0.112 2 108-67-8 1,3-Dichlorobenzene µg/l U 0.119 2 1 142-2bichlorob	•						
71-55-6 1,1,1-Trichloroethane µg/l U 0.18 2 79-34-5 1,1,2,2-Tetrachloroethane µg/l U 0.1 2 79-00-5 1,1,2-Trichloroethane µg/l U 0.143 2 75-34-3 1,1-Dichloroethane µg/l U 0.183 2 563-58-6 1,1-Dichloroptopane µg/l U 0.142 2 87-61-6 1,2,3-Trichloroptopane µg/l U 0.142 2 96-18-4 1,2,3-Trichloroptopane µg/l U 0.107 2 120-82-1 1,2,4-Trimethylbenzene µg/l U 0.108 2 95-63-6 1,2,4-Trimethylbenzene µg/l U 0.111 2 106-93-4 1,2-Dichloroethane µg/l U 0.117 2 107-06-2 1,2-Dichloropropane µg/l U 0.142 2 108-67-8 1,3-5-Trimethylbenzene µg/l U 0.113 2 108-67-8 1,3	CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
79-34-5 1,1,2,2-Tetrachloroethane µg/l U 0.1 2 79-00-5 1,1,2-Trichloroethane µg/l U 0.143 2 75-34-3 1,1-Dichloroethane µg/l U 0.214 2 75-35-4 1,1-Dichloropthene µg/l U 0.183 2 563-58-6 1,1-Dichloroptopane µg/l U 0.142 2 96-18-4 1,2,3-Trichloroptopane µg/l U 0.107 2 120-82-1 1,2,4-Trichlorobenzene µg/l U 0.107 2 120-82-1 1,2,4-Trichlorobenzene µg/l U 0.108 2 95-63-6 1,2,4-Trimethylbenzene µg/l U 0.111 2 100-93-4 1,2-Dichlorobenzene µg/l U 0.117 2 95-50-1 1,2-Dichloropropane µg/l U 0.141 2 107-06-2 1,2-Dichloropropane µg/l U 0.119 2 244-7-8 1,3,5-Tr	630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2
79-00-5 1,1,2-Trichloroethane µg/l U 0.143 2 75-34-3 1,1-Dichloroethane µg/l U 0.214 2 75-35-4 1,1-Dichloropthene µg/l U 0.183 2 87-61-6 1,2-3-Trichlorobenzene µg/l U 0.142 2 96-18-4 1,2,3-Trichloropenae µg/l U 0.107 2 120-82-1 1,2,4-Trichlorobenzene µg/l U 0.108 2 95-63-6 1,2,4-Trimethylbenzene µg/l U 0.111 2 106-93-4 1,2-Dichloropenzene µg/l U 0.111 2 95-50-1 1,2-Dichloropenzene µg/l U 0.141 2 107-06-2 1,2-Dichloropenzene µg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene µg/l U 0.119 2 142-28-9 1,3-Dichloropenzene µg/l U 0.182 2 142-28-9 1,3-Dichlo	71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2
75-34-3 1,1-Dichloroethane μg/l U 0.214 2 75-35-4 1,1-Dichloroethene μg/l U 0.183 2 563-58-6 1,1-Dichloropropene μg/l U 0.142 2 96-18-6 1,2,3-Trichloropropane μg/l U 0.107 2 96-18-4 1,2,3-Trichloropropane μg/l U 0.107 2 120-82-1 1,2,4-Trichlorobenzene μg/l U 0.111 2 95-63-6 1,2,4-Trimethylbenzene μg/l U 0.111 2 106-93-4 1,2-Dichlorobenzene μg/l U 0.114 2 107-06-2 1,2-Dichloropenane μg/l U 0.114 2 108-67-8 1,3-5-Trimethylbenzene μg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene μg/l U 0.107 2 590-20-7 2,2-Dichl	79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2
75-35-4 1,1-Dichloroethene уд/I U 0.183 2 563-58-6 1,1-Dichloropropene µд/I U 0.1 2 87-61-6 1,2,3-Trichlorobenzene µд/I U 0.107 2 96-18-4 1,2,3-Trichlorobenzene µд/I U 0.107 2 120-82-1 1,2,4-Trichlorobenzene µд/I U 0.111 2 95-63-6 1,2,4-Trimethylbenzene µд/I U 0.111 2 106-93-4 1,2-Dichlorobenzene µд/I U 0.117 2 95-50-1 1,2-Dichlorobenzene µд/I U 0.117 2 107-06-2 1,2-Dichlorobenzene µд/I U 0.182 2 78-87-5 1,2-Dichlorobenzene µд/I U 0.113 2 541-73-1 1,3-Dichlorobenzene µд/I U 0.113 2 414-22-9 1,3-Dichlorobenzene µд/I U 0.107 2 590-20-7 2,2-Dichlorob	79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2
563-58-6 1,1-Dichloropropene μg/l U 0.1 2 87-61-6 1,2,3-Trichlorobenzene μg/l U 0.142 2 96-18-4 1,2,3-Trichlorobenzene μg/l U 0.107 2 120-82-1 1,2,4-Trichlorobenzene μg/l U 0.111 2 95-63-6 1,2,4-Trichlorobenzene μg/l U 0.111 2 95-63-6 1,2,2-Trichlorobenzene μg/l U 0.111 2 95-60-1 1,2-Dichlorobenzene μg/l U 0.141 2 107-06-2 1,2-Dichloropropane μg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene μg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichlorobenzene μg/l U 0.107 2 290-20-7 2,2-Dichloropropane μg/l U 0.15 2 78-93-3 2-Butan	75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2
87-61-6 1,2,3-Trichlorobenzene μg/l U 0.142 2 96-18-4 1,2,3-Trichloropropane μg/l U 0.107 2 120-82-1 1,2,4-Trichlorobenzene μg/l U 0.108 2 95-63-6 1,2,4-Trimethylbenzene μg/l U 0.111 2 106-93-4 1,2-Dichlorobenzene μg/l U 0.111 2 95-50-1 1,2-Dichlorobenzene μg/l U 0.141 2 107-06-2 1,2-Dichloropropane μg/l U 0.182 2 78-87-5 1,2-Dichloropropane μg/l U 0.113 2 108-67-8 1,3-5-Trimethylbenzene μg/l U 0.113 2 142-28-9 1,3-Dichlorobenzene μg/l U 0.113 2 142-28-9 1,3-Dichlorobenzene μg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-Dic	75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2
96-18-4 1,2,3-Trichloropropane μg/l U 0.107 2 120-82-1 1,2,4-Trichlorobenzene μg/l U 0.108 2 95-63-6 1,2,4-Trimethylbenzene μg/l U 0.111 2 106-93-4 1,2-Dibromoethane μg/l U 0.111 2 95-50-1 1,2-Dichlorobenzene μg/l U 0.141 2 107-06-2 1,2-Dichlorobenzene μg/l U 0.119 2 78-87-5 1,2-Dichloropropane μg/l U 0.119 2 108-67-8 1,3-Dichlorobenzene μg/l U 0.189 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichlorobenzene μg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene μg/l U 0.107 2 590-20-7 2,2-Dichloropopane μg/l U 0.163 2 78-93-3 2-Butanone	563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2
120-82-1 1,2,4-Trichlorobenzene µg/l U 0.108 2 95-63-6 1,2,4-Trimethylbenzene µg/l U 0.111 2 106-93-4 1,2-Dichlorobenzene µg/l U 0.117 2 95-50-1 1,2-Dichlorobenzene µg/l U 0.141 2 107-06-2 1,2-Dichloropropane µg/l U 0.119 2 78-87-5 1,2-Dichloropropane µg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene µg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene µg/l U 0.189 2 142-28-9 1,3-Dichlorobenzene µg/l U 0.107 2 16-46-7 1,4-Dichlorobenzene µg/l U 0.15 2 590-20-7 2,2-Dichloropropane µg/l U 0.168 2 78-93-3 2-Butanone µg/l U 0.168 2 95-49-8 2-Chlorotolluene	87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2
95-63-6 1,2,4-Trimethylbenzene μg/l U 0.111 2 106-93-4 1,2-Dibromoethane μg/l U 0.117 2 95-50-1 1,2-Dichlorobenzene μg/l U 0.141 2 107-06-2 1,2-Dichlorobenzene μg/l U 0.182 2 78-87-5 1,2-Dichloropropane μg/l U 0.113 2 108-67-8 1,3,5-Trimethylbenzene μg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.107 2 166-46-7 1,4-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-Dichloropropane μg/l U 0.18 2 78-93-3 2-Butanone μg/l U 0.481 2 591-78-6 2-Hexanone μg/l U 0.163 2 591-78-6 2-Hexanone μg/l <td>96-18-4</td> <td>1,2,3-Trichloropropane</td> <td></td> <td>μg/l</td> <td>U</td> <td>0.107</td> <td>2</td>	96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2
106-93-4 1,2-Dibromoethane μg/l U 0.117 2 95-50-1 1,2-Dichlorobenzene μg/l U 0.141 2 107-06-2 1,2-Dichloropropane μg/l U 0.182 2 78-87-5 1,2-Dichloropropane μg/l U 0.119 2 108-67-8 1,3-5-Trimethylbenzene μg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene μg/l U 0.107 2 106-46-7 2,2-Dichloropropane μg/l U 0.108 2 78-93-3 2-Butanone μg/l U 0.108 2 95-49-8 2-Chlorotoluene μg/l U 0.106 2 991-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.163 2 108-43-4 4-Chlorotoluene μg/l U 0.163 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.128 2 67-64-1 Bromobenzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.139 2 108-86-1 Bromochloromethane μg/l U 0.165 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromochloromethane μg/l U 0.163 2 75-25-2 Bromoform μg/l U 0.163 2 75-25-2 Bromomethane μg/l U 0.163 2	120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2
95-50-1 1,2-Dichlorobenzene μg/l U 0.141 2 107-06-2 1,2-Dichloroethane μg/l U 0.182 2 78-87-5 1,2-Dichloropropane μg/l U 0.119 2 108-67-8 1,3-5-Trimethylbenzene μg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.107 2 196-46-7 1,4-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-Dichloropropane μg/l U 0.108 2 78-93-3 2-Butanone μg/l U 0.108 2 95-49-8 2-Chlorotoluene μg/l U 0.163 2 951-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l	95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2
107-06-2 1,2-Dichloroethane μg/l U 0.182 2 78-87-5 1,2-Dichloropropane μg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene μg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-Dichloropropane μg/l U 0.108 2 78-93-3 2-Butanone μg/l U 0.108 2 78-93-3 2-Chlorotoluene μg/l U 0.106 2 591-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l U 0.128 2 67-64-1 Acetone μg/l U<	106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2
78-87-5 1,2-Dichloropropane µg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene µg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene µg/l U 0.189 2 142-28-9 1,3-Dichloropropane µg/l U 0.107 2 106-46-7 1,4-Dichloropropane µg/l U 0.15 2 590-20-7 2,2-Dichloropropane µg/l U 0.108 2 78-93-3 2-Butanone µg/l U 0.481 2 95-49-8 2-Chlorotoluene µg/l U 0.163 2 591-78-6 2-Hexanone µg/l U 0.163 2 59-87-6 4-Isopropyltoluene µg/l U 0.1 2 99-87-6 4-Isopropyltoluene µg/l U 0.128 2 67-64-1 Acetone µg/l U 0.612 2 71-43-2 Benzene µg/l U	95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2
108-67-8 1,3,5-Trimethylbenzene µg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene µg/l U 0.189 2 142-28-9 1,3-Dichloropropane µg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene µg/l U 0.15 2 590-20-7 2,2-Dichloropropane µg/l U 0.108 2 78-93-3 2-Butanone µg/l U 0.481 2 95-49-8 2-Chlorotoluene µg/l U 0.106 2 591-78-6 2-Hexanone µg/l U 0.163 2 106-43-4 4-Chlorotoluene µg/l U 0.1 2 99-87-6 4-Isopropyltoluene µg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone µg/l U 0.128 2 67-64-1 Acetone µg/l U 0.128 2 71-43-2 Benzene µg/l U	107 - 06-2	1,2-Dichloroethane		μg/l	U	0.182	2
541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-Dichloropropane μg/l U 0.108 2 78-93-3 2-Butanone μg/l U 0.106 2 95-49-8 2-Chlorotoluene μg/l U 0.163 2 591-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U	78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2
142-28-9 1,3-Dichloropropane \(\begin{align*}{cccccccccccccccccccccccccccccccccccc	108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2
106-46-7 1,4-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-Dichloropropane μg/l U 0.108 2 78-93-3 2-Butanone μg/l U 0.481 2 95-49-8 2-Chlorotoluene μg/l U 0.106 2 591-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromomethane μg/l U 0.163 </td <td>541-73-1</td> <td>1,3-Dichlorobenzene</td> <td></td> <td>μg/l</td> <td>U</td> <td>0.189</td> <td>2</td>	541 - 73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2
590-20-7 2,2-Dichloropropane \(\psigma\graphi\) U 0.108 2 78-93-3 2-Butanone \(\psigma\graphi\) U 0.481 2 95-49-8 2-Chlorotoluene \(\psigma\graphi\) U 0.106 2 591-78-6 2-Hexanone \(\psigma\graphi\) U 0.163 2 106-43-4 4-Chlorotoluene \(\psigma\graphi\) U 0.1 2 99-87-6 4-Isopropyltoluene \(\psigma\graphi\) U 0.1 2 108-10-1 4-Methyl-2-pentanone \(\psigma\graphi\) U 0.128 2 67-64-1 Acetone \(\psigma\graphi\) U 0.612 2 71-43-2 Benzene \(\psigma\graphi\) U 0.139 2 108-86-1 Bromobenzene \(\psigma\graphi\) U 0.156 2 75-27-4 Bromodichloromethane \(\psigma\graphi\) U 0.163 2 75-25-2 Bromoform \(\psigma\graphi\) U 0.163	142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2
78-93-3 2-Butanone μg/l U 0.481 2 95-49-8 2-Chlorotoluene μg/l U 0.106 2 591-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.163 2 75-15-0 Carbon disulfide μg/l U 0.137	106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2
95-49-8 2-Chlorotoluene μg/l U 0.106 2 591-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 75-15-0 Carbon disulfide μg/l U 0.183 2 75-15-0 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 <td>590-20-7</td> <td>2,2-Dichloropropane</td> <td></td> <td>μg/l</td> <td>U</td> <td>0.108</td> <td>2</td>	590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2
591-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.183 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.156	78-93-3	2-Butanone		μg/l	U	0.481	2
106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.183 2 75-15-0 Carbon disulfide μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	95-49-8	2-Chlorotoluene		μg/l	U	0.106	2
99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	591-78-6	2-Hexanone		μg/l	U	0.163	2
108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	106-43-4	4-Chlorotoluene		μg/l	U	0.1	2
67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2
71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2
108-86-1 Bromobenzene $\mu g/l$ U 0.156 2 74-97-5 Bromochloromethane $\mu g/l$ U 0.165 2 75-27-4 Bromodichloromethane $\mu g/l$ U 0.135 2 75-25-2 Bromoform $\mu g/l$ U 0.163 2 74-83-9 Bromomethane $\mu g/l$ U 0.201 2 75-15-0 Carbon disulfide $\mu g/l$ U 0.183 2 56-23-5 Carbon tetrachloride $\mu g/l$ U 0.137 2 108-90-7 Chlorobenzene $\mu g/l$ U 0.156 2 75-00-3 Chloroethane $\mu g/l$ U 0.207 2	67-64-1	Acetone		μg/l	U	0.612	2
$74-97-5$ Bromochloromethane $\mu g/l$ U 0.165 2 $75-27-4$ Bromodichloromethane $\mu g/l$ U 0.135 2 $75-25-2$ Bromoform $\mu g/l$ U 0.163 2 $74-83-9$ Bromomethane $\mu g/l$ U 0.201 2 $75-15-0$ Carbon disulfide $\mu g/l$ U 0.183 2 $56-23-5$ Carbon tetrachloride $\mu g/l$ U 0.137 2 $108-90-7$ Chlorobenzene $\mu g/l$ U 0.156 2 $75-00-3$ Chloroethane $\mu g/l$ U 0.207 2	71-43-2	Benzene		μg/l	U	0.139	2
75-27-4 Bromodichloromethane $\mu g/l$ U 0.135 2 75-25-2 Bromoform $\mu g/l$ U 0.163 2 74-83-9 Bromomethane $\mu g/l$ U 0.201 2 75-15-0 Carbon disulfide $\mu g/l$ U 0.183 2 56-23-5 Carbon tetrachloride $\mu g/l$ U 0.137 2 108-90-7 Chlorobenzene $\mu g/l$ U 0.156 2 75-00-3 Chloroethane $\mu g/l$ U 0.207 2	108-86-1	Bromobenzene		μg/l	U	0.156	2
75-25-2 Bromoform $\mu g/l$ U 0.163 2 74-83-9 Bromomethane $\mu g/l$ U 0.201 2 75-15-0 Carbon disulfide $\mu g/l$ U 0.183 2 56-23-5 Carbon tetrachloride $\mu g/l$ U 0.137 2 108-90-7 Chlorobenzene $\mu g/l$ U 0.156 2 75-00-3 Chloroethane $\mu g/l$ U 0.207 2	74-97-5	Bromochloromethane		μg/l	U	0.165	2
$74-83-9$ Bromomethane $\mu g/l$ U 0.201 2 $75-15-0$ Carbon disulfide $\mu g/l$ U 0.183 2 $56-23-5$ Carbon tetrachloride $\mu g/l$ U 0.137 2 $108-90-7$ Chlorobenzene $\mu g/l$ U 0.156 2 $75-00-3$ Chloroethane $\mu g/l$ U 0.207 2	75-27-4	Bromodichloromethane		μg/l	U	0.135	2
75-15-0 Carbon disulfide $\mu g/l$ U 0.183 2 56-23-5 Carbon tetrachloride $\mu g/l$ U 0.137 2 108-90-7 Chlorobenzene $\mu g/l$ U 0.156 2 75-00-3 Chloroethane $\mu g/l$ U 0.207 2	75-25-2	Bromoform		μg/l	U	0.163	2
56-23-5 Carbon tetrachloride $\mu g/l$ U 0.137 2 108-90-7 Chlorobenzene $\mu g/l$ U 0.156 2 75-00-3 Chloroethane $\mu g/l$ U 0.207 2	74-83-9	Bromomethane		μg/l	U	0.201	2
108-90-7 Chlorobenzene $\mu g/l$ U 0.156 2 75-00-3 Chloroethane $\mu g/l$ U 0.207 2	75-15-0	Carbon disulfide		μg/l	U	0.183	2
75-00-3 Chloroethane $\mu g/l$ U 0.207 2	56-23-5	Carbon tetrachloride		μg/l	U	0.137	2
	108-90-7	Chlorobenzene		μg/l	U	0.156	2
67-66-3 Chloroform μα/Ι U 0.214 2	75-00-3	Chloroethane		μg/l	U	0.207	2
19 -	67-66-3	Chloroform		μg/l	U	0.214	2

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-2-45	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1665	
Sample g/ml	: 25	Lab Sample ID: 166513	
% Solids: no	t dec.	Date Collected: 12/6/02 Time: 14:40	
Instrument II	D Instru	Dilution Factor: 1	
Analytical M	ethod: 8260B	Date Analyzed: 12/9/02 Time: 22:19	
Prep Metho	d: EPA 5030	Date Received: 12/7/02 11:15:00 AM	

Analytical Batch: 1509

Allalytical Daton.	1309					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/l	U	0.1	2
75-71-8	Dichlorodifluoromethane		μg/l	U	0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82-8	Isopropylbenzene		μg/l	U	0.1	2
75-09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene		μg/l	U	0.139	2
104-51-8	n-Butylbenzene		μg/l	U	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		μg/l	U	0.102	2
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2
100-42-5	Styrene		μg/l	U	0.1	2
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2
127-18-4	Tetrachloroethene		μg/l	U	0.115	2
108-88-3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01-6	Trichloroethene		μg/l	U	0.151	2
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2
75-01-4	Vinyl chloride		μg/l	U	0.239	2

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HA	AF-B159-3-10			
Client ID:	CESAS	Project ID HA	AF-MCA BARRACK	S		
Matrix: W	·	Project Num 1	oject Num 1652			
Sample g/ml:	25	Lab Sample ID:	165223			
% Solids: not	dec.	Date Collected:	12/4/02	Time:	16:15	
Instrument ID) Instru	Dilution Factor:	1			
Analytical Me	ethod: 8260B	Date Analyzed:	12/6/02	Time:	7:51	
Prep Method	d: EPA 5030	Date Received:	12/5/02 9:40:00 AM	1		

Analytical Batch: 1502

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2	
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2	
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2	
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2	
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2	
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2	
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2	
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2	
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2	
78-93-3	2-Butanone		μg/l	U	0.481	2	
95 - 49-8	2-Chlorotoluene		μg/l	U	0.106	2	
591-78-6	2-Hexanone		μg/l	U	0.163	2	
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2	
99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2	
108-10-1	4-Methyl-2-pentanone		µg∕l	U	0.128	2	
67-64 - 1	Acetone		μg/l	U	0.612	2	
71-43-2	Benzene		μg/l	U	0.139	2	
108-86-1	Bromobenzene		μg/l	U	0.156	2	
74-97-5	Bromochloromethane		μg/l	U	0.165	2	
75-27-4	Bromodichloromethane		μg/l	U	0.135	2	
75-25-2	Bromoform		μg/l	U	0.163	2	
74-83-9	Bromomethane		μg/l	U	0.201	2	
75-15-0	Carbon disulfide		μg/l	U	0.183	2	
56-23-5	Carbon tetrachloride		μg/l	U	0.137	2	
108-90-7	Chlorobenzene		μg/l	U	0.156	2	
75-00-3	Chloroethane		μg/l	U	0.207	2	
67-66-3	Chloroform		μg/l	U	0.214	2	

EPA Lab Code:KS00902

Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-10
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W		Project Num 1652
Sample g/ml	: 25	Lab Sample ID: 165223
% Solids: no	t dec.	Date Collected: 12/4/02 Time: 16:15
Instrument II) Instru	Dilution Factor: 1
Analytical Me	ethod: 8260B	Date Analyzed: 12/6/02 Time: 7:51
Prep Metho	d: EPA 5030	Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1502

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/l	U	0.1	2
75-71-8	Dichlorodifluoromethane	10.5	μg/l		0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82-8	Isopropylbenzene		μg/l	U	0.1	2
75-09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene		μg/l	U	0.139	2
104-51-8	n-Butylbenzene		μg/l	U	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		μg/l	U	0.102	2
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2
100-42-5	Styrene		μg/l	U	0.1	2
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2
127-18-4	Tetrachloroethene		μg/l	U	0.115	2
108-88-3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	บ	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01-6	Trichloroethene		μg/l	U	0.151	2
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2
108-05-4	Vinyl acetate		μg/l	U	2	4
75-01-4	Vinyl chloride		μg/l	U	0.239	2

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-15
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W		Project Num 1652
Sample g/ml:	: 25	Lab Sample ID: 165224
% Solids: no	t dec.	Date Collected: 12/4/02 Time: 16:20
Instrument IC) Instru	Dilution Factor: 1
Analytical Me	ethod: 8260B	Date Analyzed: 12/6/02 Time: 8:24
Pren Metho	d: EPA 5030	Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1502

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CAS NO.	COMPOUN

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2	
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2	
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2	
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2	
106-93-4	1,2-Dibromoethane		μg/l	Ų	0.117	2	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2	
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2	
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2	
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2	
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2	
78-93-3	2-Butanone		μg/l	U	0.481	2	
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2	
591-78-6	2-Hexanone		μg/l	U	0.163	2	
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2	
99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2	
67-64-1	Acetone		μg/l	U	0.612	2	
71-43-2	Benzene		μg/l	U	0.139	2	
108-86-1	Bromobenzene		μg/l	U	0.156	2	
74-97 - 5	Bromochloromethane		μg/l	U	0.165	2	
75-27-4	Bromodichloromethane		μg/l	U	0.135	2	
75-25-2	Bromoform		μg/l	U	0.163	2	
74-83-9	Bromomethane		μg/l	U	0.201	2	
75-15-0	Carbon disulfide		μg/l	U	0.183	2	
56-23-5	Carbon tetrachloride		μg/l	U	0.137	2	
108-90-7	Chlorobenzene		μg/l	U	0.156	2	
75-00-3	Chloroethane		μg/l	U	0.207	2	
67-66-3	Chloroform		μg/l	U	0.214	2	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Sample ID: HAAF-B159-3-15 Analytical Managment Laboratories Lab Name: HAAF-MCA BARRACKS Project ID Client ID: **CESAS** Project Num 1652 Matrix: W Lab Sample ID: 165224 Sample g/ml: 25 Date Collected: 12/4/02 Time: 16:20 % Solids: not dec. Dilution Factor: Instrument ID Instru 8:24 Date Analyzed: 12/6/02 Time: 8260B Analytical Method: Date Received: 12/5/02 9:40:00 AM Prep Method: EPA 5030

Analytical Batch: 1502

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/l	Ų	0.1	2
75-71-8	Dichlorodifluoromethane	5.32	μg/l		0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82-8	Isopropylbenzene		μg/l	U	0.1	2
75-09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene		μg/l	U	0.139	2
104-51-8	n-Butylbenzene		μg/l	U	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		μg/l	U	0.102	2
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2
100-42-5	Styrene		μg/l	U	0.1	2
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2
127-18-4	Tetrachloroethene		μg/l	U	0.115	2
108-88-3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01-6	Trichloroethene		μg/l	U	0.151	2
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2
108-05-4	Vinyl acetate		μg/l	U	2	4
75-01-4	Vinyl chloride		μg/l	U	0.239	2

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-20				
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS				
Matrix: W		Project Num 1652				
Sample g/ml:	: 25	Lab Sample ID: 165225				
% Solids: not	t dec.	Date Collected: 12/4/02 Time: 16:30				
Instrument ID) Instru	Dilution Factor: 1				
Analytical Me	ethod: 8260B	Date Analyzed: 12/6/02 Time: 8:57				
Prep Method	d: EPA 5030	Date Received: 12/5/02 9:40:00 AM				

Analytical Batch: 1502

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2	
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2	
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2	
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2	
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2	
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2	
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2	
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2	
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2	
78-93-3	2-Butanone		μg/l	U	0.481	2	
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2	
591-78-6	2-Hexanone		μg/l	U	0.163	2	
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2	
99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2	
67-64-1	Acetone		μg/l	U	0.612	2	
71-43-2	Benzene		μg/l	U	0.139	2	
108-86-1	Bromobenzene		μg/l	U	0.156	2	
74-97-5	Bromochloromethane		μg/l	U	0.165	2	
75-27-4	Bromodichloromethane		μg/l	U	0.135	2	
75-25-2	Bromoform		μg/l	U	0.163	2	
74-83-9	Bromomethane		μg/l	U	0.201	2	
75-15-0	Carbon disulfide		μg/l	U	0.183	2	
56-23-5	Carbon tetrachloride		μg/l	U	0.137	2	
108-90-7	Chlorobenzene		μg/l	U	0.156	2	
75-00-3	Chloroethane		μg/l	U	0.207	2	
67-66-3	Chloroform		μg/l	U	0.214	2	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-20
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W		Project Num 1652
Sample g/ml	: 25	Lab Sample ID: 165225
% Solids: no	t dec.	Date Collected: 12/4/02 Time: 16:30
Instrument II	O Instru	Dilution Factor: 1
Analytical M	ethod: 8260B	Date Analyzed: 12/6/02 Time: 8:57
Prep Metho		Date Received: 12/5/02 9:40:00 AM

Analytical Batch:	1502						
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
74-87-3	Chloromethane		μg/l	U	0.173	2	
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2	
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2	
124-48-1	Dibromochloromethane		μg/l	U	0.133	2	
74-95-3	Dibromomethane		μg/l	U	0.1	2	
75-71-8	Dichlorodifluoromethane		μg/l	U	0.5	2	
100-41-4	Ethylbenzene		μg/l	U	0.1	2	
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2	
98-82-8	Isopropylbenzene		μg/l	U	0.1	2	
75-09-2	Methylene chloride		μg/l	U	0.398	2	
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2	
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2	
91-20-3	Naphthalene		μg/l	U	0.139	2	
104-51-8	n-Butylbenzene		μg/l	U	0.14	2	
103-65-1	n-Propylbenzene		μg/l	U	0.1	2	
95-47-6	o-Xylene		μg/l	U	0.102	2	
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2	
100-42-5	Styrene		μg/l	U	0.1	2	
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2	
127-18-4	Tetrachloroethene		μg/l	U	0.115	2	
108-88-3	Toluene		μg/l	U	0.105	2	
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2	
10061-02-6	trans-1,3-Dichloropropene		µg∕l	U	0.1	2	
79-01-6	Trichloroethene		μg/l	U	0.151	2	
75-69-4	Trichlorofluoromethane		μg/l	Ų	0.111	2	
108-05-4	Vinyl acetate		μg/l	U	2	4	
75-01-4	Vinyl chloride		μg/l	U	0.239	2	

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-25
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W	,	Project Num 1652
Sample g/ml	l: 25	Lab Sample ID: 165226
% Solids: no	ot dec.	Date Collected: 12/4/02 Time: 16:40
Instrument II	D Instru	Dilution Factor: 5
Analytical M	ethod: 8260B	Date Analyzed: 12/6/02 Time: 9:29
Prep Metho	od: EPA 5030	Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1502

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50 - 1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	Ų	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	Ų	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		µg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		µg∕l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Sample ID: HAAF-B159-3-25 Analytical Managment Laboratories Lab Name: HAAF-MCA BARRACKS CESAS Project ID Client ID: Project Num 1652 Matrix: W Lab Sample ID: 165226 25 Sample g/ml: Date Collected: 12/4/02 16:40 Time: % Solids: not dec. Dilution Factor: 5 Instrument ID Instru Date Analyzed: 12/6/02 Time: 9:29 8260B Analytical Method: Date Received: 12/5/02 9:40:00 AM Prep Method: EPA 5030

Analytical Batch: 1502

Analytical Batch:	1502						
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
74-87-3	Chloromethane		μg/l	U	0.865	10	
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10	
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10	
124-48-1	Dibromochloromethane		μg/l	U	0.665	10	
74-95-3	Dibromomethane		μg/l	U	0.5	10	
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10	
100-41-4	Ethylbenzene		μg/l	U	0.5	10	
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10	
98-82-8	Isopropylbenzene		μg/l	U	0.5	10	
75-09-2	Methylene chloride		μg/l	U	1.99	10	
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10	
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10	
91-20-3	Naphthalene		μg/l	U	0.695	10	
104-51-8	n-Butylbenzene		μg/l	U	0.7	10	
103-65 - 1	n-Propylbenzene		μg/l	U	0.5	10	
95-47 - 6	o-Xylene		μg/l	U	0.51	10	
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10	
100-42-5	Styrene		μg/l	U	0.5	10	
98-06 - 6	tert-Butylbenzene		μg/l	U	0.85	10	
127-18-4	Tetrachloroethene		μg/l	U	0.575	10	
108-88-3	Toluene		μg/l	U	0.525	10	
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10	
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10	
79-01-6	Trichloroethene		μg/l	U	0.755	10	
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10	
108-05-4	Vinyl acetate	•	μg/l	U	10	20	
75-01-4	Vinyl chloride		μg/l	U	1.2	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Analytical Managment Laboratories Sample ID: HAAF-B159-3-30 Lab Name: Project ID HAAF-MCA BARRACKS Client ID: **CESAS** Matrix: W Project Num 1652 Lab Sample ID: 165227 Sample g/ml: 25 Date Collected: 12/4/02 Time: 16:50 % Solids: not dec. Dilution Factor: 5 Instrument ID Instru Date Analyzed: 12/6/02 Time: 10:01 Analytical Method: 8260B Date Received: 12/5/02 9:40:00 AM Prep Method: EPA 5030

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Analytical Batch: 1502

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		µg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		µg/l	U	1.03	10	
67 - 66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-30				
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS				
Matrix: W		Project Num 1652				
Sample g/ml:	: 25	Lab Sample ID: 165227				
% Solids: no	 t dec.	Date Collected: 12/4/02 Time: 16:50				
Instrument IE) Instru	Dilution Factor: 5				
Analytical Me	ethod: 8260B	Date Analyzed: 12/6/02 Time: 10:01				
Prep Metho	d: EPA 5030	Date Received: 12/5/02 9:40:00 AM				

Analytical Batch: 1502

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	U	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47-6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06 - 6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
108-05-4	Vinyl acetate		μg/l	U	10	20
75-01-4	Vinyl chloride		μg/l	U	1.2	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-35	··········			
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS				
Matrix: W		Project Num 1665				
Sample g/ml	: 25	Lab Sample ID: 166501				
% Solids: no	t dec.	Date Collected: 12/6/02 Time: 8:35				
Instrument II	O Instru	Dilution Factor: 5				
Analytical Me	ethod: 8260B	Date Analyzed: 12/9/02 Time: 15:53				
Prep Metho	d: EPA 5030	Date Received: 12/7/02 11:15:00 AM				

Prep Method: EPA 5030

Analytical Batch: 1509

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10
96-18-4	1,2,3-Trichloropropane		μg/l	Ų	0.535	10
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10
78-93-3	2-Butanone		μg/l	U	2.41	10
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10
591-78-6	2-Hexanone		μg/l	U	0.815	10
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10
67-64-1	Acetone		μg/l	U	3.06	10
71-43-2	Benzene		μg/l	U	0.695	10
108-86-1	Bromobenzene		μg/l	U	0.78	10
74-97-5	Bromochloromethane		μg/l	U	0.825	10
75-27-4	Bromodichloromethane		μg/l	U	0.675	10
75-25-2	Bromoform		μg/l	U	0.815	10
74-83-9	Bromomethane		μg/l	U	1.01	10
75-15-0	Carbon disulfide		μg/l	U	0.915	10
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10
108-90-7	Chlorobenzene		μg/l	U	0.78	10
75-00-3	Chloroethane		μg/l	U	1.03	10
67-66-3	Chloroform		μg/l	U	1.07	10

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-35				
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS				
Matrix: W		Project Num 1665				
Sample g/ml	: 25	Lab Sample ID: 166501				
% Solids: no	**************************************	Date Collected: 12/6/02 Time: 8:35				
Instrument II) Instru	Dilution Factor: 5				
Analytical M	ethod: 8260B	Date Analyzed: 12/9/02 Time: 15:53				
Prep Metho		Date Received: 12/7/02 11:15:00 AM				

Analytical Batch: 1509

Analytical batch.	1009					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	Ų	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	υ	0.665	10
74-95-3	Dibromomethane		μg/!	U	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	Ų	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51 - 8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47-6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
75-01-4	Vinyl chloride		μg/l	U	1.2	10
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EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-40	
Client ID: CESAS		Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1665	
Sample g/ml	: 25	Lab Sample ID: 166502	
% Solids: no	t dec.	Date Collected: 12/6/02 Time: 9:05	
Instrument II	O Instru	Dilution Factor: 5	
Analytical Me	ethod: 8260B	Date Analyzed: 12/9/02 Time: 16:25	
Pren Metho	d: EPA 5030	Date Received: 12/7/02 11:15:00 AM	

Prep Method: EPA 5030

Analytical Batch: 1509

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67 - 8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/i	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-40	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	_
Matrix: W		Project Num 1665	
Sample g/ml:	25	Lab Sample ID: 166502	
% Solids: not	dec.	Date Collected: 12/6/02 Time: 9:05	
Instrument ID	Instru	Dilution Factor: 5	
Analytical Met	hod: 8260B	Date Analyzed: 12/9/02 Time: 16:25	
Prep Method		Date Received: 12/7/02 11:15:00 AM	

Analytical Batch: 1509

Analytical batch.	1309					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87 - 3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	U	0.5	10
75-71 - 8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47 - 6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
75-01-4	Vinyl chloride		μg/l	U	1.2	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-45	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1665	
Sample g/ml	: 25	Lab Sample ID: 166503	
% Solids: no	t dec.	Date Collected: 12/6/02 Time: 9:25	
Instrument II) Instru	Dilution Factor: 5	
Analytical Me	ethod: 8260B	Date Analyzed: 12/9/02 Time: 16:57	
Prep Metho	d: EPA 5030	Date Received: 12/7/02 11:15:00 AM	

Analytical Batch: 1509

Analytical Daten.	1,000					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10
79 - 34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10
79-00 - 5	1,1,2-Trichloroethane		μg/l	U	0.715	10
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10
78-93-3	2-Butanone		μg/l	U	2.41	10
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10
591-78-6	2-Hexanone		μg/l	U	0.815	10
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10
99-87-6	4-isopropyltoluene		μg/l	U	0.5	10
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10
67-64-1	Acetone		μg/l	U	3.06	10
71-43-2	Benzene		μg/l	U	0.695	10
108-86-1	Bromobenzene		μg/l	U	0.78	10
74-97-5	Bromochloromethane		μg/l	U	0.825	10
75-27-4	Bromodichloromethane		μg/l	U	0.675	10
75-25-2	Bromoform		μg/l	U	0.815	10
74-83-9	Bromomethane		μg/l	U	1.01	10
75-15-0	Carbon disulfide		μg/l	U	0.915	10
56 - 23-5	Carbon tetrachloride		μg/l	U	0.685	10
108-90-7	Chlorobenzene		μg/l	U	0.78	10
75-00-3	Chloroethane		μg/l	U	1.03	10
67-66-3	Chloroform		μg/l	U	1.07	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-3-45
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W		Project Num 1665
Sample g/ml	: 25	Lab Sample ID: 166503
% Solids: no	t dec.	Date Collected: 12/6/02 Time: 9:25
Instrument II) Instru	Dilution Factor: 5
Analytical Me	ethod: 8260B	Date Analyzed: 12/9/02 Time: 16:57
Prep Metho	d: EPA 5030	Date Received: 12/7/02 11:15:00 AM

Analytical Batch:	1509					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		µg/l	Ų	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	υ	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l ·	U	1.08	10
91-20-3	Naphthalene		µg∕l	U	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47-6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
75-01-4	Vinyl chloride		μg/l	U	1.2	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

Client ID: CESAS Project ID HAAF-MCA BARRACKS	
Client ID: CESAS Project ID HAAF-MCA BARRACKS	
Matrix: W Project Num 1652	
Sample g/ml: 25 Lab Sample ID: 165214	
% Solids: not dec. Date Collected: 12/4/02 Time: 13:25	
Instrument ID Instru Dilution Factor: 1	
Analytical Method: 8260B Date Analyzed: 12/5/02 Time: 23:41	
Prep Method: EPA 5030 Date Received: 12/5/02 9:40:00 AM	

Analytical Batch: 1501

Analytical batch.	1301					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2
563-58-6	1,1-Dichloropropene		μg/l	Ü	0.1	2
87-61-6	1,2,3-Trichlorobenzene		µg∕l	U	0.142	2
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2
107-06-2	1,2-Dichloroethane		μg/l	υ	0.182	2
78-87-5	1,2-Dichloropropane		µg∕l	U	0.119	2
108-67-8	1,3,5-Trimethylbenzene		µg∕l	U	0.113	2
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2
142-28-9	1,3-Dichloropropane		µg∕l	U	0.107	2
106-46-7	1,4-Dichlorobenzene		µg∕l	U	0.15	2
590-20-7	2,2-Dichloropropane		μg/l	Ų	0.108	2
78-93-3	2-Butanone		µg∕l	U	0.481	2
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2
591-78-6	2-Hexanone		µg∕l	U	0.163	2
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2
99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2
67-64-1	Acetone		μg/l	U	0.612	2
71-43-2	Benzene		μg/l	U	0.139	2
108-86-1	Bromobenzene		µg∕l	U	0.156	2
74-97-5	Bromochloromethane		μg/l	U	0.165	2
75-27 - 4	Bromodichloromethane		μg/l	U	0.135	2
75-25-2	Bromoform		μg/l	U	0.163	2
74-83-9	Bromomethane		μg/l	U	0.201	2
75-15-0	Carbon disulfide		μg/l	U	0.183	2
56-23-5	Carbon tetrachloride		μg/l	U	0.137	2
108-90-7	Chlorobenzene		μg/l	υ	0.156	2
75 - 00-3	Chloroethane		µg/l	U	0.207	2
67-66-3	Chloroform		μg/l	U	0.214	2

EPA Lab Code:KS00902

Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-4-10	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1652	
Sample g/ml	: 25	Lab Sample ID: 165214	
% Solids: no	N. C. C. C. C. C. C. C. C. C. C. C. C. C.	Date Collected: 12/4/02 Time: 13:25	
Instrument IE) Instru	Dilution Factor: 1	
Analytical Me	ethod: 8260B	Date Analyzed: 12/5/02 Time: 23:41	
Prep Metho		Date Received: 12/5/02 9:40:00 AM	

Analytical Batch: 1501

Allalytical Daton.	1001					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/l	U	0.1	2
75-71-8	Dichlorodifluoromethane		μg/l	U	0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82-8	Isopropylbenzene		μg/l	U	0.1	2
75-09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene		μg/l	U	0.139	2
104-51-8	n-Butylbenzene		μg/l	U	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		μg/l	U	0.102	2
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2
100-42-5	Styrene		μg/l	U	0.1	2
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2
127-18-4	Tetrachloroethene		μg/l	U	0.115	2
108-88-3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01-6	Trichloroethene		μg/l	U	0.151	2
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2
108-05-4	Vinyl acetate		μg/l	U	2	4
75-01 - 4	Vinyl chloride		μg/l	U	0.239	2
	•					

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-4-15
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W		Project Num 1652
 Sample g/ml	1: 25	Lab Sample ID: 165215
% Solids: no	**************************************	Date Collected: 12/4/02 Time: 13:35
Instrument II	D Instru	Dilution Factor: 1
Analytical M	ethod: 8260B	Date Analyzed: 12/6/02 Time: 0:14
Prep Metho		Date Received: 12/5/02 9:40:00 AM
	······	

Analytical Batch: 1501

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	υ	0.222	2
71-55-6	1.1.1-Trichloroethane		μg/l	U	0.18	2
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2
541-73-1	1,3-Dichlorobenzene		μg/l	Ü	0.189	2
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2
78-93-3	2-Butanone		μg/l	U	0.481	2
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2
591-78-6	2-Hexanone		μg/l	U	0.163	2
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2
99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2
67-64-1	Acetone		μg/l	U	0.612	2
71-43-2	Benzene		μg/l	U	0.139	2
108-86-1	Bromobenzene		μg/l	U	0.156	2
74-97-5	Bromochloromethane		μg/l	U	0.165	2
75 - 27-4	Bromodichloromethane		μg/l	U	0.135	2
75-25-2	Bromoform		μg/l	U	0.163	2
74-83-9	Bromomethane		μg/l	U	0.201	2
75-15-0	Carbon disulfide		μg/l	U	0.183	2
56-23-5	Carbon tetrachloride		μg/l	U	0.137	2
108-90-7	Chlorobenzene		μg/l	Ų	0.156	2
75-00-3	Chloroethane		μg/l	U	0.207	2
67-66-3	Chloroform		μg/l	U	0.214	2

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-4-15
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W		Project Num 1652
 Sample g/m	l: 25	Lab Sample ID: 165215
% Solids: no	ot dec.	Date Collected: 12/4/02 Time: 13:35
Instrument l	D Instru	Dilution Factor: 1
Analytical M	ethod: 8260B	Date Analyzed: 12/6/02 Time: 0:14
Prep Metho		Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1501

Analytical Batch.	1501					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/l	U	0.1	2
75- 71- 8	Dichlorodifluoromethane		μg/l	U	0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82-8	Isopropylbenzene		μg/l	U	0.1	2
75-09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene		μg/l	U	0.139	2
104-51-8	n-Butylbenzene		μg/l	U	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		μg/l	U	0.102	2
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2
100-42-5	Styrene		μg/l	U	0.1	2
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2
127-18-4	Tetrachloroethene		μg/l	U	0.115	2
108-88-3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01-6	Trichloroethene		μg/l	U	0.151	2
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2
108-05-4	Vinyl acetate		μg/l	U	2	4
75-01 - 4	Vinyl chloride		μg/l	U	0.239	2

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-4-20					
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS					
Matrix: W		Project Num 1652					
Sample g/ml	: 25	Lab Sample ID: 165216					
% Solids: no	t dec.	Date Collected: 12/4/02 Time: 13:45					
Instrument II	D Instru	Dilution Factor: 1					
Analytical Me	ethod: 8260B	Date Analyzed: 12/6/02 Time: 0:47					
Drop Motho	d: EPA 5030	Date Received: 12/5/02 9:40:00 AM					

Prep Method: EPA 5030

Analytical Batch: 1501

630-20-6 1,1,1,2-Tetrachloroethane μg/l U 0.222 2 71-85-6 1,1,1-Trichloroethane μg/l U 0.18 2 79-34-5 1,1,2-Trichloroethane μg/l U 0.143 2 79-00-5 1,1,2-Trichloroethane μg/l U 0.143 2 75-34-3 1,1-Dichloropropene μg/l U 0.183 2 75-35-4 1,1-Dichloropropene μg/l U 0.142 2 863-58-6 1,1-Dichloropropene μg/l U 0.142 2 96-18-4 1,2,3-Trichloropropane μg/l U 0.142 2 96-18-4 1,2,4-Trimethylbenzene μg/l U 0.112 2 120-8-21 1,2,4-Trimethylbenzene μg/l U 0.111 2 196-33-4 1,2-Dichlorobenzene μg/l U 0.111 2 107-06-2 1,2-Dichloropropane μg/l U 0.141 2 108-07-8 1,3			DEQUIT	11!4	•	MDL	MOI
71-55-6 1,1,1-Trichloroethane μg/l U 0.18 2 79-34-5 1,1,2,2-Tetrachloroethane μg/l U 0.1 2 79-00-5 1,1,2-Trichloroethane μg/l U 0.143 2 75-34-3 1,1-Dichloropthane μg/l U 0.183 2 563-58-6 1,1-Dichloropropene μg/l U 0.142 2 96-18-4 12,3-Trichloropropane μg/l U 0.142 2 96-18-4 12,3-Trichloropropane μg/l U 0.107 2 120-82-1 1,2-Trichlorobenzene μg/l U 0.107 2 120-83-6 1,2-Trichlorobenzene μg/l U 0.111 2 166-93-4 1,2-Dichloropethane μg/l U 0.117 2 95-50-1 1,2-Dichloropethane μg/l U 0.141 2 106-93-4 1,2-Dichloropethane μg/l U 0.141 2 106-95-5 1	CAS NO.		RESULI				
79-34-5 1,1,2,2-Tetrachloroethane	630 - 20-6						
79-00-5 1,1,2-Trichloroethane μg/l U 0.143 2 75-34-3 1,1-Dichloroethane μg/l U 0.214 2 75-35-4 1,1-Dichloroethene μg/l U 0.183 2 563-58-6 1,1-Dichloropropene μg/l U 0.142 2 87-61-6 1,2,3-Trichlorobenzene μg/l U 0.107 2 96-18-4 1,2,3-Trichlorobenzene μg/l U 0.108 2 95-63-6 1,2,4-Trimetrylbenzene μg/l U 0.117 2 95-63-6 1,2-Dichlorobenzene μg/l U 0.117 2 95-60-1 1,2-Dichlorobenzene μg/l U 0.117 2 95-50-1 1,2-Dichlorobenzene μg/l U 0.182 2 78-87-5 1,2-Dichlorobenzene μg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 41-2-8-9 1,3-Dichlorobenze	71-55-6						
75-34-3 1,1-Dichloroethane μg/l U 0.214 2 75-35-4 1,1-Dichloroethene μg/l U 0.183 2 563-58-6 1,1-Dichloropropane μg/l U 0.142 2 87-61-6 1,2,3-Trichlorobenzene μg/l U 0.107 2 96-18-4 1,2,3-Trichloropropane μg/l U 0.108 2 95-63-6 1,2-4-Trimethylbenzene μg/l U 0.111 2 96-59-1 1,2-Dichlorobenzene μg/l U 0.111 2 95-50-1 1,2-Dichlorobenzene μg/l U 0.141 2 95-50-1 1,2-Dichloropropane μg/l U 0.182 2 78-87-5 1,3-5-Trimethylbenzene μg/l U 0.119 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.119 2 541-73-1 1,3-Dichloropropane μg/l U 0.107 2 108-66-7 1,4-Dichloroben	79-34-5						
75-35-4 1,1-Dichloroethene μg/l U 0.183 2 563-58-6 1,1-Dichloropropene μg/l U 0.1 2 87-61-6 1,2,3-Trichlorobenzene μg/l U 0.142 2 96-18-4 1,2,3-Trichlorobenzene μg/l U 0.107 2 120-82-1 1,2,4-Trichlorobenzene μg/l U 0.1108 2 95-63-6 1,2,4-Trichlorobenzene μg/l U 0.111 2 106-93-4 1,2-Dichlorobenzene μg/l U 0.111 2 95-50-1 1,2-Dichlorobenzene μg/l U 0.114 2 107-06-2 1,2-Dichloropropane μg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene μg/l U 0.119 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichlorobenzene μg/l U 0.107 2 590-20-7 2,2-Dich	79-00-5					-	
583-58-6 1,1-Dichloropropene μg/l U 0.1 2 87-61-6 1,2,3-Trichlorobenzene μg/l U 0.142 2 96-18-4 1,2,3-Trichloropenzene μg/l U 0.107 2 120-82-1 1,2,4-Trichlorobenzene μg/l U 0.111 2 95-63-6 1,2,4-Trimethylbenzene μg/l U 0.111 2 106-93-4 1,2-Dichlorobenzene μg/l U 0.141 2 95-50-1 1,2-Dichlorobenzene μg/l U 0.141 2 107-06-2 1,2-Dichloropropane μg/l U 0.141 2 108-67-8 1,3-5-Trimethylbenzene μg/l U 0.119 2 108-67-8 1,3-Dichloropropane μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.107 2 590-20-7 2,2-Dic	75-34-3	1,1-Dichloroethane			_		
87-61-6 1,2,3-Trichlorobenzene μg/l U 0.142 2 96-18-4 1,2,3-Trichlorobenzene μg/l U 0.107 2 120-82-1 1,2,4-Trichlorobenzene μg/l U 0.111 2 95-63-6 1,2,4-Trichlorobenzene μg/l U 0.111 2 106-93-4 1,2-Dichlorobenzene μg/l U 0.117 2 95-50-1 1,2-Dichlorobenzene μg/l U 0.141 2 107-06-2 1,2-Dichloropropane μg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene μg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene μg/l U 0.189 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichlorobenzene μg/l U 0.16 2 590-20-7 2,2-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-	75-35-4	· · · · · · · · · · · · · · · · · · ·		•			
96-18-4 1,2,3-Trichloropropane μg/l U 0.107 2 120-82-1 1,2,4-Trichlorobenzene μg/l U 0.108 2 95-63-6 1,2,4-Trimethylbenzene μg/l U 0.1117 2 106-93-4 1,2-Dichlorobenzene μg/l U 0.117 2 95-50-1 1,2-Dichlorobenzene μg/l U 0.141 2 107-06-2 1,2-Dichloropropane μg/l U 0.141 2 108-67-8 1,3-5-Trimethylbenzene μg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.162 2 198-46-7 1,4-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-Dichloropropane μg/l U 0.163 2 78-93-3 2-Butano	563-58-6	1,1-Dichloropropene		µg∕l			
120-82-1 1,2,4-Trichlorobenzene µg/l U 0.108 2 95-63-6 1,2,4-Trimethylbenzene µg/l U 0.111 2 106-93-4 1,2-Dichlorobenzene µg/l U 0.117 2 95-50-1 1,2-Dichlorobenzene µg/l U 0.141 2 107-06-2 1,2-Dichloropropane µg/l U 0.182 2 78-87-5 1,2-Dichloropropane µg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene µg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene µg/l U 0.189 2 142-28-9 1,3-Dichlorobenzene µg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene µg/l U 0.15 2 590-20-7 2,2-Dichloropropane µg/l U 0.16 2 78-93-3 2-Butanone µg/l U 0.481 2 95-49-8 2-Chlorotoluene	87-61-6	1,2,3-Trichlorobenzene					
95-63-6 1,2,4-Trimethylbenzene μg/l U 0.111 2 106-93-4 1,2-Dibromoethane μg/l U 0.117 2 95-50-1 1,2-Dichlorobenzene μg/l U 0.141 2 107-06-2 1,2-Dichloropropane μg/l U 0.182 2 78-87-5 1,2-Dichloropropane μg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene μg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-Dichloropropane μg/l U 0.108 2 78-93-3 2-Butanone μg/l U 0.481 2 95-49-8 2-Chlorotoluene μg/l U 0.163 2 591-78-6 2-Hexanone μg/	96-18-4	1,2,3-Trichloropropane		μg/l			
106-93-4 1,2-Dibromoethane µg/l U 0.117 2 95-50-1 1,2-Dichlorobenzene µg/l U 0.141 2 107-06-2 1,2-Dichlorobenzene µg/l U 0.182 2 78-87-5 1,2-Dichloropropane µg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene µg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene µg/l U 0.189 2 142-28-9 1,3-Dichloropropane µg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene µg/l U 0.15 2 590-20-7 2,2-Dichloropropane µg/l U 0.108 2 78-93-3 2-Butanone µg/l U 0.481 2 95-49-8 2-Chlorotoluene µg/l U 0.166 2 591-78-6 2-Hexanone µg/l U 0.163 2 106-43-4 4-Chlorotoluene µg/l	120-82-1	1,2,4-Trichlorobenzene		µg∕l			
95-50-1 1,2-Dichlorobenzene	95-63-6	1,2,4-Trimethylbenzene		μg/l			
107-06-2 1,2-Dichloroethane μg/l U 0.182 2 78-87-5 1,2-Dichloropropane μg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene μg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-Dichloropropane μg/l U 0.108 2 78-93-3 2-Butanone μg/l U 0.481 2 95-49-8 2-Chlorotoluene μg/l U 0.163 2 591-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l	106-93-4	1,2-Dibromoethane		μg/l		0.117	
78-87-5 1,2-Dichloropropane µg/l U 0.119 2 108-67-8 1,3,5-Trimethylbenzene µg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene µg/l U 0.189 2 142-28-9 1,3-Dichloropropane µg/l U 0.107 2 106-46-7 1,4-Dichloropropane µg/l U 0.15 2 590-20-7 2,2-Dichloropropane µg/l U 0.108 2 78-93-3 2-Butanone µg/l U 0.481 2 95-49-8 2-Chlorotoluene µg/l U 0.106 2 591-78-6 2-Hexanone µg/l U 0.163 2 106-43-4 4-Chlorotoluene µg/l U 0.1 2 99-87-6 4-Isopropyltoluene µg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone µg/l U 0.612 2 17-43-2 Benzene µg/l U </td <td>95-50-1</td> <td>1,2-Dichlorobenzene</td> <td></td> <td>μg/l</td> <td>U</td> <td>0.141</td> <td></td>	95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	
108-67-8 1,3,5-Trimethylbenzene μg/l U 0.113 2 541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-Dichloropropane μg/l U 0.108 2 78-93-3 2-Butanone μg/l U 0.481 2 95-49-8 2-Chlorotoluene μg/l U 0.106 2 591-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyttoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U <td>107-06-2</td> <td>1,2-Dichloroethane</td> <td></td> <td>µg∕l</td> <td></td> <td>0.182</td> <td></td>	107-06-2	1,2-Dichloroethane		µg∕l		0.182	
541-73-1 1,3-Dichlorobenzene μg/l U 0.189 2 142-28-9 1,3-Dichloropropane μg/l U 0.107 2 106-46-7 1,4-Dichlorobenzene μg/l U 0.15 2 590-20-7 2,2-Dichloropropane μg/l U 0.108 2 78-93-3 2-Butanone μg/l U 0.481 2 95-49-8 2-Chlorotoluene μg/l U 0.106 2 591-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U	78-87-5	1,2-Dichloropropane		μg/l	U	0.119	
142-28-9 1,3-Dichloropropane µg/l U 0.107 2 106-46-7 1,4-Dichloropenzene µg/l U 0.15 2 590-20-7 2,2-Dichloropropane µg/l U 0.108 2 78-93-3 2-Butanone µg/l U 0.481 2 95-49-8 2-Chlorotoluene µg/l U 0.106 2 591-78-6 2-Hexanone µg/l U 0.163 2 106-43-4 4-Chlorotoluene µg/l U 0.1 2 99-87-6 4-Isopropyltoluene µg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone µg/l U 0.128 2 67-64-1 Acetone µg/l U 0.128 2 71-43-2 Benzene µg/l U 0.139 2 108-86-1 Bromobenzene µg/l U 0.156 2 75-27-4 Bromodichloromethane µg/l U 0.165 2 75-25-2 Bromoform µg/l U 0.163 <td>108-67-8</td> <td>1,3,5-Trimethylbenzene</td> <td></td> <td>μg/l</td> <td>U</td> <td>0.113</td> <td></td>	108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	
106-46-7 1,4-Dichlorobenzene µg/l U 0.15 2 590-20-7 2,2-Dichloropropane µg/l U 0.108 2 78-93-3 2-Butanone µg/l U 0.481 2 95-49-8 2-Chlorotoluene µg/l U 0.106 2 591-78-6 2-Hexanone µg/l U 0.163 2 106-43-4 4-Chlorotoluene µg/l U 0.1 2 99-87-6 4-Isopropyltoluene µg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone µg/l U 0.128 2 67-64-1 Acetone µg/l U 0.612 2 71-43-2 Benzene µg/l U 0.139 2 108-86-1 Bromobenzene µg/l U 0.165 2 75-27-4 Bromodichloromethane µg/l U 0.135 2 75-25-2 Bromoform µg/l U 0.163	541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	
590-20-7 2,2-Dichloropropane μg/l U 0.108 2 78-93-3 2-Butanone μg/l U 0.481 2 95-49-8 2-Chlorotoluene μg/l U 0.106 2 591-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.163 2<	142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2
78-93-3 2-Butanone µg/l U 0.481 2 95-49-8 2-Chlorotoluene µg/l U 0.106 2 591-78-6 2-Hexanone µg/l U 0.163 2 106-43-4 4-Chlorotoluene µg/l U 0.1 2 99-87-6 4-Isopropyltoluene µg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone µg/l U 0.128 2 67-64-1 Acetone µg/l U 0.612 2 71-43-2 Benzene µg/l U 0.139 2 108-86-1 Bromobenzene µg/l U 0.156 2 74-97-5 Bromochloromethane µg/l U 0.165 2 75-27-4 Bromodichloromethane µg/l U 0.135 2 75-25-2 Bromoform µg/l U 0.163 2 74-83-9 Bromomethane µg/l U 0.163 2 </td <td>106-46-7</td> <td>1,4-Dichlorobenzene</td> <td></td> <td>μg/l</td> <td>U</td> <td></td> <td>2</td>	106-46-7	1,4-Dichlorobenzene		μg/l	U		2
95-49-8 2-Chlorotoluene	590-20-7	2,2-Dichloropropane		μg/l	U	0.108	
591-78-6 2-Hexanone μg/l U 0.163 2 106-43-4 4-Chlorotoluene μg/l U 0.1 2 99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.163 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.156	78-93-3	2-Butanone		μg/l	U	0.481	
106-43-4	95-49-8	2-Chlorotoluene		μg/l	U	0.106	
99-87-6 4-Isopropyltoluene μg/l U 0.1 2 108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	591-78-6	2-Hexanone		μg/l	U		2
108-10-1 4-Methyl-2-pentanone μg/l U 0.128 2 67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.165 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.163 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.183 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane	106-43-4	4-Chlorotoluene		μg/l	U	0.1	
67-64-1 Acetone μg/l U 0.612 2 71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane	99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2
71-43-2 Benzene μg/l U 0.139 2 108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2
108-86-1 Bromobenzene μg/l U 0.156 2 74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	67-64-1	Acetone		μg/l	U	0.612	2
74-97-5 Bromochloromethane μg/l U 0.165 2 75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	71-43-2	Benzene		μg/l	U	0.139	2
75-27-4 Bromodichloromethane μg/l U 0.135 2 75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	108-86-1	Bromobenzene		μg/l	U	0.156	2
75-25-2 Bromoform μg/l U 0.163 2 74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	74-97-5	Bromochloromethane		μg/l	U	0.165	2
74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2		Bromodichloromethane		μg/l	U	0.135	2
74-83-9 Bromomethane μg/l U 0.201 2 75-15-0 Carbon disulfide μg/l U 0.183 2 56-23-5 Carbon tetrachloride μg/l U 0.137 2 108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2	75-25-2	Bromoform		μg/l	U	0.163	2
75-15-0 Carbon disulfide $\mu g/l$ U 0.183 2 56-23-5 Carbon tetrachloride $\mu g/l$ U 0.137 2 108-90-7 Chlorobenzene $\mu g/l$ U 0.156 2 75-00-3 Chloroethane $\mu g/l$ U 0.207 2		Bromomethane		μg/l	U	0.201	2
56-23-5 Carbon tetrachloride $\mu g/l$ U 0.137 2 108-90-7 Chlorobenzene $\mu g/l$ U 0.156 2 75-00-3 Chloroethane $\mu g/l$ U 0.207 2					U	0.183	2
108-90-7 Chlorobenzene μg/l U 0.156 2 75-00-3 Chloroethane μg/l U 0.207 2		Carbon tetrachloride			U	0.137	2
75-00-3 Chloroethane μg/l U 0.207 2					U	0.156	2
					Ų	0.207	2
	67-66-3	Chloroform		μg/l	U		2

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-4-20					
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS					
Matrix: W		Project Num 1652					
Sample g/ml: 25		Lab Sample ID: 165216					
% Solids: no	t dec.	Date Collected: 12/4/02 Time: 13:45					
Instrument II) Instru	Dilution Factor: 1					
Analytical Me	ethod: 8260B	Date Analyzed: 12/6/02 Time: 0:47					
Prep Metho	d: EPA 5030	Date Received: 12/5/02 9:40:00 AM					

Prep Method: EPA 5030

Analytical Batch: 1501

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/l	U	0.1	2
75-71-8	Dichlorodifluoromethane		μg/l	U	0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82-8	Isopropylbenzene		μg/l	U	0.1	2
75-09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene		μg/l	U	0.139	2
104-51-8	n-Butylbenzene		μg/l	U	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		µg∕l	U	0.102	2
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2
100-42-5	Styrene		μg/l	U	0.1	2
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2
127-18-4	Tetrachloroethene		μg/l	U	0.115	2
108-88-3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01-6	Trichloroethene		μg/l	U	0.151	2
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2
108-05-4	Vinyl acetate		μg/l	U	2	4
75-01-4	Vinyl chloride		μg/l	U	0.239	2

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-4-25					
Client ID: CESAS		Project ID HAAF-MCA BARRACKS					
Matrix: W		Project Num 1652					
Sample g/ml	: 25	Lab Sample ID: 165217					
% Solids: no	t dec.	Date Collected: 12/4/02 Time: 13:50					
Instrument II) Instru	Dilution Factor: 5					
Analytical Mo	ethod: 8260B	Date Analyzed: 12/6/02 Time: 4:35					
Prep Metho	d: EPA 5030	Date Received: 12/5/02 9:40:00 AM					

Analytical Batch: 1502

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	Ų	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		µg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		µg∕l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74 - 97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-4-25					
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS					
Matrix: W		Project Num 1652					
Sample g/ml	: 25	Lab Sample ID: 165217					
% Solids: no	t dec.	Date Collected: 12/4/02 Time: 13:50					
instrument II	O Instru	Dilution Factor: 5					
Analytical Me	ethod: 8260B	Date Analyzed: 12/6/02 Time: 4:35					
Prep Metho	d: EPA 5030	Date Received: 12/5/02 9:40:00 AM					

Analytical Batch: 1502

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	Ü	0.755	10
10061 - 01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	υ	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51 - 8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47-6	o-Xylene		μg/l	Ü	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061 - 02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79 - 01-6	Trichloroethene		μg/l	U	0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
108-05-4	Vinyl acetate		μg/l	U	10	20
75-01-4	Vinyl chloride		μg/l	U	1.2	10

Lab Name: Analytica	Managment Laboratories	Sample ID: HA	AF-B159-4-30		
Client ID: CESAS		Project ID HA	AF-MCA BARRACKS	3	
Matrix: W		Project Num 1	652		
Sample g/ml: 25		Lab Sample ID:	165218		
% Solids: not dec.		Date Collected:	12/4/02	Time:	14:05
Instrument ID Instru		Dilution Factor:	5		
Analytical Method: 8	260B	Date Analyzed:	12/6/02	Time:	5:08
Prep Method: EPA 5	030	Date Received:	12/5/02 9:40:00 AM		

Analytical Batch: 1502

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	Ų	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		µg∕l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90 - 7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902

Kansas Certification: E-10254

Sample ID: HAAF-B159-4-30					
Project ID HAAF-MCA BARRACKS					
Project Num 1652					
Lab Sample ID: 165218					
Date Collected: 12/4/02 Time: 14:05					
Dilution Factor: 5					
Date Analyzed: 12/6/02 Time: 5:08					
Date Received: 12/5/02 9:40:00 AM					

Analytical Batch: 1502

CAS NO.	COMPOUND	RESULT	11-14-	_		
		KLSULI	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	U	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51 - 8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47-6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
108-05-4	Vinyl acetate		μg/l	U	10	20
75-01-4	Vinyl chloride		μg/l	U	1.2	10

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-4-35	
Client ID: C	CESAS	Project ID HAAF-MCA BARRACKS	_
Matrix: W		Project Num 1652	
Sample g/ml:	25	Lab Sample ID: 165219	
% Solids: not	dec.	Date Collected: 12/4/02 Time: 14:25	
Instrument ID	Instru	Dilution Factor: 5	
Analytical Met	hod: 8260B	Date Analyzed: 12/6/02 Time: 5:40	
Prep Method:		Date Received: 12/5/02 9:40:00 AM	

Analytical Batch: 1502

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27 - 4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		µg/l	U	0.685	10	
108-90 - 7	Chlorobenzene		µg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902

Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-4-35
Client ID: CESAS		Project ID HAAF-MCA BARRACKS
Matrix: W		Project Num 1652
Sample g/ml:	25	Lab Sample ID: 165219
% Solids: not	Market 1977	Date Collected: 12/4/02 Time: 14:25
Instrument IC) Instru	Dilution Factor: 5
Analytical Me	ethod: 8260B	Date Analyzed: 12/6/02 Time: 5:40
Prep Metho	-	Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1502

Analytical Batch:	1502						
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
74-87-3	Chloromethane		μg/l	U	0.865	10	
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10	
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10	
124-48-1	Dibromochloromethane		μg/l	U	0.665	10	
74-95-3	Dibromomethane		μg/l	U	0.5	10	
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10	
100-41-4	Ethylbenzene		μg/l	U	0.5	10	
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10	
98-82-8	Isopropylbenzene		μg/l	U	0.5	10	
75-09-2	Methylene chloride		μg/l	U	1.99	10	
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10	
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10	
91-20-3	Naphthalene		μg/l	U	0.695	10	
104-51-8	n-Butylbenzene		μg/l	U	0.7	10	
103-65-1	n-Propylbenzene		μg/l	U	0.5	10	
95-47-6	o-Xylene		μg/l	U	0.51	10	
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10	
100-42-5	Styrene		μg/l	U	0.5	10	
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10	
127-18-4	Tetrachloroethene		μg/l	U	0.575	10	
108-88-3	Toluene		μg/l	U	0.525	10	
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10	
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10	
79-01-6	Trichloroethene		μg/l	U	0.755	10	
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10	
108-05-4	Vinyl acetate		μg/l	U	10	20	
75-01-4	Vinyl chloride		μg/l	U	1.2	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-4-40
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W	1	Project Num 1652
Sample g/ml	l: <u>25</u>	Lab Sample ID: 165220
% Solids: no	ot dec.	Date Collected: 12/4/02 Time: 14:30
instrument II	D <u>Instru</u>	Dilution Factor: 5
Analytical M	ethod: 8260B	Date Analyzed: 12/6/02 Time: 6:13
Prep Metho	d: <u>EPA 5030</u>	Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1502

Analytical Batch:	1502						
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μ g/ l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	Ü	0.78	10	
75-00-3	Chloroethane		μg/l	Ü	1.03	10	
67-66-3	Chloroform		μg/l	Ŭ	1.07	10	
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EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name: Analytical Managment Laboratories	Sample ID: HAAF-B159-4-40
Client ID: CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W	Project Num 1652
Sample g/ml: 25	Lab Sample ID: 165220
% Solids: not dec.	Date Collected: 12/4/02 Time: 14:30
Instrument ID Instru	Dilution Factor: 5
Analytical Method: 8260B	Date Analyzed: 12/6/02 Time: 6:13
Prep Method: EPA 5030	Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1502

Analytical Batch:	1502						
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
74-87-3	Chloromethane		μg/l	U	0.865	10	
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10	
10061-01-5	cis-1,3-Dichloropropene		μg/l	Ų	0.5	10	
124-48-1	Dibromochloromethane		μg/l	U	0.665	10	
74-95-3	Dibromomethane		μg/l	U	0.5	10	
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10	
100-41-4	Ethylbenzene		μg/l	U	0.5	10	
87-68-3	Hexachlorobutadiene		μg/l	Ų	0.96	10	
98-82-8	Isopropylbenzene		μg/l	U	0.5	10	
75-09-2	Methylene chloride		μg/l	U	1.99	10	
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10	
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10	
91-20-3	Naphthalene		μg/l	U	0.695	10	
104-51-8	n-Butylbenzene		μg/l	U	0.7	10	
103-65-1	n-Propylbenzene		μg/l	U	0.5	10	
95-47-6	o-Xylene		μg/l	U	0.51	10	
135-98-8	sec-Butylbenzene		µg/l	U	0.665	10	
100-42-5	Styrene		μg/l	U	0.5	10	
98-06 - 6	tert-Butylbenzene		μg/l	U	0.85	10	
127-18-4	Tetrachloroethene		μg/l	U	0.575	10	
108-88-3	Toluene		μg/l	U	0.525	10	
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10	
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10	
79-01-6	Trichloroethene		μg/l	U	0.755	10	
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10	
108-05-4	Vinyl acetate		μg/l	U	10	20	
75-01-4	Vinyl chloride		μg/l	U	1.2	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name: Analytical Managment Laboratorie	es Sample ID: HAAF-B159-4-45
Client ID: CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W	Project Num 1652
Sample g/ml: 25	Lab Sample ID: 165221
% Solids: not dec.	Date Collected: 12/4/02 Time: 15:25
Instrument ID Instru	Dilution Factor: 1
Analytical Method: 8260B	Date Analyzed: 12/6/02 Time: 6:45
Prep Method: EPA 5030	Date Received: 12/5/02 9:40:00 AM

Prep Method: EPA 5030

Analytical Batch: 1502

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	Ū	0.1	2
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2
78-93-3	2-Butanone		μg/l	U	0.481	2
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2
591-78-6	2-Hexanone		μg/l	U	0.163	2
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2
99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2
67-64-1	Acetone		μg/I	U	0.612	2
71-43-2	Benzene		μg/l	U	0.139	2
108-86-1	Bromobenzene		μg/l	U	0.156	2
74-97-5	Bromochloromethane		μg/l	U	0.165	2
75-27-4	Bromodichloromethane		μg/l	U	0.135	2
75-25-2	Bromoform		μg/l	U	0.163	2
74-83-9	Bromomethane		μg/l	U	0.201	2
75-15-0	Carbon disulfide		μg/l	U	0.183	2
56-23-5	Carbon tetrachloride		μg/l	U	0.137	2
108-90-7	Chlorobenzene		μg/l	U	0.156	2
75-00-3	Chloroethane		μg/l	U	0.207	2
67-66-3	Chloroform		μg/l	U	0.214	2

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-4-45	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1652	
Sample g/ml:	_25	Lab Sample ID: 165221	
% Solids: not	dec.	Date Collected: 12/4/02 Time: 15:25	
Instrument ID	Instru	Dilution Factor: 1	
Analytical Me	thod: 8260B	Date Analyzed: 12/6/02 Time: 6:45	
Prep Method	t: EPA 5030	Date Received: 12/5/02 9:40:00 AM	

Analytical Batch: 1502

COMPOUND RESULT CAS NO. Units Q MDL MQL 74-87-3 Chloromethane U μg/l 0.173 2 156-59-2 cis-1,2-Dichloroethene μg/l U 0.151 2 10061-01-5 cis-1,3-Dichloropropene U 0.1 2 μg/l 124-48-1 Dibromochloromethane μg/l U 0.133 2 74-95-3 Dibromomethane 0.1 2 U μg/l 75-71-8 Dichlorodifluoromethane μg/l U 0.5 2 100-41-4 Ethylbenzene 0.1 U 2 μg/l 87-68-3 Hexachlorobutadiene μg/I U 0.192 2 98-82-8 Isopropylbenzene U 0.1 2 μg/l 75-09-2 Methylene chloride U 0.398 2 μg/l Methyl-tert-butyl-ether 1634-04-4 Ü 0.1 2 μg/l m+p xylene m-Xylene and p-Xylene 0.216 2 μg/l U 91-20-3 Naphthalene μg/l U 0.139 2 104-51-8 n-Butylbenzene μg/l U 0.14 2 103-65-1 n-Propylbenzene U 0.1 2 μg/l 95-47-6 o-Xylene U 0.102 2 μg/I 135-98-8 sec-Butylbenzene 0.133 2 µg/l U

μg/l

μg/l

μg/l

μg/l

μg/l

μg/l

μg/I

μg/l

μg/l

μg/l

U

U

U

U

U

U

U

U

U

0.1

0.17

0.115

0.105

0.152

0.1

0.151

0.111

2

0.239

2

2

2

2

2

2

2

2

4

2

EPA Lab Code:KS00902 Kansas Certification:E-10254

100-42-5

98-06-6

127-18-4

108-88-3

156-60-5

10061-02-6

79-01-6

75-69-4

108-05-4

75-01-4

Styrene

tert-Butylbenzene

Tetrachloroethene

Toluene

trans-1,2-Dichloroethene

trans-1,3-Dichloropropene

Trichloroethene

Trichlorofluoromethane

Vinyl acetate

Vinyl chloride

Lab Name: Analytical Managment Laboratories Sample ID: HAAF-B159-5-10 HAAF-MCA BARRACKS Client ID: **CESAS** Project ID Matrix: W Project Num 1642 Sample g/ml: 25 Lab Sample ID: 164204 % Solids: not dec. Date Collected: 12/3/02 13:00 Time: Instrument ID Instru Dilution Factor: Analytical Method: 8260B Date Analyzed: 12/4/02 23:02 Time: Prep Method: EPA 5030 Date Received: 12/4/02 10:10:00 AM

Frep Metrod. LIA 3000

Analytical Batch: 1500

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2
75-35-4	1,1-Dichloroethene		µg∕l	U	0.183	2
563-58 - 6	1,1-Dichloropropene		μg/l	U	0.1	2
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2
96-18 - 4	1,2,3-Trichloropropane		μg/l	U	0.107	2
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2
96-12-8	1,2Dibromo3chloropropane		μg/l	U	0.133	2
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2
78-93-3	2-Butanone		μg/l	U	0.481	2
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2
591-78-6	2-Hexanone		μg/l	U	0.163	2
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2
99-87-6	4-Isopropyltoluene		μg/l	U	0.1	2
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2
67-64-1	Acetone		μg/l	U	0.612	2
71-43-2	Benzene		μg/l	U	0.139	2
108-86-1	Bromobenzene		μg/l	U	0.156	2
74-97-5	Bromochloromethane		μg/l	U	0.165	2
75-27-4	Bromodichloromethane		μg/l	U	0.135	2
75-25-2	Bromoform		μg/l	Ü	0.163	2
74-83-9	Bromomethane		. σ μg/l	Ū	0.201	2
75-15-0	Carbon disulfide		μg/l	Ü	0.183	2
56-23-5	Carbon tetrachloride		μg/l	Ü	0.137	2
108-90-7	Chlorobenzene		μg/l	Ū	0.156	2
75-00-3	Chloroethane		μg/l	U	0.207	2

EPA Lab Code:KS00902

Kansas Certification: E-10254

FORM I VOA - Equivalent

VIII-223

0025

Lab Name: Analytical Managment Laboratories Sample ID: HAAF-B159-5-10 HAAF-MCA BARRACKS **CESAS** Project ID Client ID: Matrix: W Project Num 1642 Lab Sample ID: Sample g/ml: 25 164204 Date Collected: 12/3/02 % Solids: not dec. Time: 13:00 Dilution Factor: Instrument ID Instru 1 Analytical Method: 8260B Date Analyzed: 12/4/02 Time: 23:02 Prep Method: EPA 5030 Date Received: 12/4/02 10:10:00 AM

Analytical Batch: 1500

RESULT CAS NO. COMPOUND Units Q MQL MDL 67-66-3 Chloroform U 0.214 2 μg/l 74-87-3 Chloromethane U 0.173 2 µg/l cis-1,2-Dichloroethene 2 156-59-2 0.151 μg/l U 10061-01-5 cis-1,3-Dichloropropene µg/l U 0.1 2 124-48-1 Dibromochloromethane U 0.133 2 μg/l 74-95-3 Dibromomethane U 0.1 2 μg/l 75-71-8 Dichlorodifluoromethane U 2 0.5 μg/l 100-41-4 Ethylbenzene U 2 μg/l 0.1 87-68-3 Hexachlorobutadiene 0.192 2 μg/I U 98-82-8 Isopropylbenzene μg/l U 0.1 2 75-09-2 Methylene chloride U 0.398 2 μg/l 1634-04-4 2 Methyl-tert-butyl-ether U 0.1 μg/l 2 U m+p xylene m-Xylene and p-Xylene μg/l 0.216 91-20-3 2 Naphthalene U 0.139 μg/l 104-51-8 n-Butylbenzene µg/I U 0.14 2 103-65-1 n-Propylbenzene U 0.1 2 μg/l 95-47-6 o-Xylene μg/l U 0.102 2 135-98-8 sec-Butylbenzene U 0.133 2 μg/l 100-42-5 Styrene μg/l U 0.1 2 0.17 98-06-6 tert-Butylbenzene U 2 μg/l 127-18-4 Tetrachloroethene µg/l U 0.115 2 108-88-3 Toluene 2 μg/l U 0.105 156-60-5 trans-1,2-Dichloroethene μg/l U 0.152 2 10061-02-6 trans-1,3-Dichloropropene 2 U 0.1 μg/l 79-01-6 Trichloroethene μg/l U 0.151 2 75-69-4 Trichlorofluoromethane 2 μg/l U 0.111 108-05-4 Vinyl acetate U 2 4 μg/l 75-01-4 Vinyl chloride 0.239 2 μg/l U

EPA Lab Code:KS00902 Kansas Certification: E-10254

Lab Name: A	Analytical Managment Laboratories	Sample ID: HAAF	-B159-5 - 15				
Client ID: C	: CESAS Project ID HAAF-MCA BARRACKS						
Matrix: W		Project Num 1642					
Sample g/ml:	25	Lab Sample ID: 1	164206				
% Solids: not d	lec.	Date Collected: 12	2/3/02	Time:	13:10		
Instrument ID	Instru	Dilution Factor: 1					
Analytical Meth	nod: 8260B	Date Analyzed: 12	2/5/02	Time:	0:07		
Prep Method:	EPA 5030	Date Received: 12	2/4/02 10:10:00 AM	1			

Prep Method: EPA 5030

Analytical Batch: 1500

Analytical Batch.	1300					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2
75-34-3	1,1-Dichloroethane		μg/l	U	0.214	2
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2
96-12-8	1,2Dibromo3chloropropane		μg/l	U	0.133	2
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2
108-67-8	1,3,5-Trimethylbenzene		μg/l	Ų	0.113	2
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2
78-93-3	2-Butanone		μg/l	U	0.481	2
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2
591-78-6	2-Hexanone		μg/l	U	0.163	2
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2
99-87 - 6	4-isopropyltoluene		μg/l	U	0.1	2
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2
67-64-1	Acetone		μg/l	U	0.612	2
71-43-2	Benzene		μg/l	U	0.139	2
108-86-1	Bromobenzene		μg/l	U	0.156	2
74-97-5	Bromochloromethane		μg/l	U	0.165	2
75-27-4	Bromodichloromethane		μg/l	U	0.135	2
75-25-2	Bromoform		μg/l	U	0.163	2
74-83-9	Bromomethane		μg/l	U	0.201	2
75-15-0	Carbon disulfide		μg/l	U	0.183	2
56-23-5	Carbon tetrachloride		μg/l	U	0.137	2
108-90-7	Chlorobenzene		μg/l	U	0.156	2
75-00-3	Chloroethane		μg/l	U	0.207	2

EPA Lab Code:KS00902

Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-5-15
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W		Project Num 1642
Sample g/ml	: 25	Lab Sample ID: 164206
% Solids: no	t dec.	Date Collected: 12/3/02 Time: 13:10
Instrument ID) Instru	Dilution Factor: 1
Analytical Me	ethod: 8260B	Date Analyzed: 12/5/02 Time: 0:07
Prep Method	d: EPA 5030	Date Received: 12/4/02 10:10:00 AM

Analytical Batch: 1500

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
67-66-3	Chloroform		μg/l	U	0.214	2
74-87-3	Chloromethane		μg/l	U	0.173	2
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2
124-48-1	Dibromochloromethane		μg/l	U	0.133	2
74-95-3	Dibromomethane		μg/l	U	0.1	2
75-71-8	Dichlorodifluoromethane		μg/l	U	0.5	2
100-41-4	Ethylbenzene		μg/l	U	0.1	2
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2
98-82-8	Isopropylbenzene		μg/l	U	0.1	2
75 - 09-2	Methylene chloride		μg/l	U	0.398	2
1634-04-4	Methyl-tert-butyl-ether		μg/l	Ų	0.1	2
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2
91-20-3	Naphthalene	1.37	μ g/l	J	0.139	2
104-51-8	n-Butylbenzene	0.53	μg/l	J	0.14	2
103-65-1	n-Propylbenzene		μg/l	U	0.1	2
95-47-6	o-Xylene		μg/l	U	0.102	2
135-98-8	sec-Butylbenzene	0.88	μg/l	J	0.133	2
100-42-5	Styrene		μ g/l	U	0.1	2
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2
127-18-4	Tetrachloroethene		μg/l	U	0.115	2
108-88-3	Toluene		μg/l	U	0.105	2
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2
79-01-6	Trichloroethene		μg/l	U	0.151	2
75 - 69-4	Trichlorofluoromethane		μg/l	U	0.111	2
108-05-4	Vinyl acetate		μg/l	U	2	4
75-01-4	Vinyl chloride		μg/l	U	0.239	2

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-5-20	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1642	
Sample g/ml	: 25	Lab Sample ID: 164207	
% Solids: no	t dec.	Date Collected: 12/3/02 Time: 13:20	
Instrument II	O Instru	Dilution Factor: 1	
Analytical Me	ethod: 8260B	Date Analyzed: 12/5/02 Time: 0:39	
Prep Metho	d: EPA 5030	Date Received: 12/4/02 10:10:00 AM	

Prep Method: EPA 5030

Analytical Batch: 1500

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	0.222	2
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.18	2
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.1	2
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.143	2
75-34-3	1,1-Dichloroethane		μ g/l	Ų	0.214	2
75-35-4	1,1-Dichloroethene		μg/l	U	0.183	2
563-58-6	1,1-Dichloropropene		μg/l	U	0.1	2
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.142	2
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.107	2
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.108	2
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.111	2
96-12-8	1,2Dibromo3chloropropane		μg/l	U	0.133	2
106-93-4	1,2-Dibromoethane		μg/l	U	0.117	2
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.141	2
107-06-2	1,2-Dichloroethane		μg/l	U	0.182	2
78-87-5	1,2-Dichloropropane		μg/l	U	0.119	2
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.113	2
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.189	2
142-28-9	1,3-Dichloropropane		μg/l	U	0.107	2
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.15	2
590-20-7	2,2-Dichloropropane		μg/l	U	0.108	2
78-93-3	2-Butanone		μg/l	U	0.481	2
95-49-8	2-Chlorotoluene		μg/l	U	0.106	2
591-78-6	2-Hexanone		μg/l	U	0.163	2
106-43-4	4-Chlorotoluene		μg/l	U	0.1	2
99-87-6	4-isopropyltoluene		μg/l	U	0.1	2
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.128	2
67-64-1	Acetone		μg/l	U	0.612	2
71-43-2	Benzene		μg/l	U	0.139	2
108-86-1	Bromobenzene		μg/l	U	0.156	2
74-97-5	Bromochloromethane		μg/l	U	0.165	2
75-27-4	Bromodichloromethane		μg/l	U	0.135	2
75-25-2	Bromoform		μg/l	U	0.163	2
74-83-9	Bromomethane		μg/l	U	0.201	2
75-15-0	Carbon disulfide		μg/l	U	0.183	2
56-23-5	Carbon tetrachloride		μg/l	Ū	0.137	2
108-90-7	Chlorobenzene		μg/l	Ū	0.156	2
75-00 - 3	Chloroethane		μg/l	Ū	0.207	2

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name: Analytical Managment Laboratories Sample ID: HAAF-B159-5-20 Client ID: **CESAS** Project ID HAAF-MCA BARRACKS W Project Num 1642 Matrix: Sample g/ml: 25 Lab Sample ID: 164207 % Solids: not dec. Date Collected: 12/3/02 Time: 13:20 Instrument ID Instru Dilution Factor: Analytical Method: 8260B Date Analyzed: 12/5/02 Time: 0:39 Prep Method: EPA 5030 Date Received: 12/4/02 10:10:00 AM

Analytical Batch: 1500

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
67-66-3	Chloroform		μg/l	U	0.214	2	
74-87-3	Chloromethane		μg/l	U	0.173	2	
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.151	2	
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.1	2	
124-48-1	Dibromochloromethane		μ g/ l	U	0.133	2	
74-95-3	Dibromomethane		μg/l	U	0.1	2	
75-71-8	Dichlorodifluoromethane		μg/l	U	0.5	2	
100-41-4	Ethylbenzene		μg/l	U	0.1	2	
87-68-3	Hexachlorobutadiene		μg/l	U	0.192	2	
98-82-8	Isopropylbenzene	0.81	μg/l	J	0.1	2	
75-09-2	Methylene chloride		μg/l	U	0.398	2	
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.1	2	
m+p xylene	m-Xylene and p-Xylene		μg/l	U	0.216	2	
91-20-3	Naphthalene	6.17	μg/l		0.139	2	
104-51-8	n-Butylbenzene		μg/l	U	0.14	2	
103-65-1	n-Propylbenzene	0.62	μg/l	J	0.1	2	
95-47 - 6	o-Xylene		μg/l	U	0.102	2	
135-98-8	sec-Butylbenzene		μg/l	U	0.133	2	
100-42-5	Styrene		μg/l	U	0.1	2	
98-06-6	tert-Butylbenzene		μg/l	U	0.17	2	
127-18-4	Tetrachloroethene		μg/l	U	0.115	2	
108-88-3	Toluene		μg/l	U	0.105	2	
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.152	2	
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.1	2	
79-01-6	Trichloroethene		μg/l	U	0.151	2	
75-69-4	Trichlorofluoromethane		μg/l	U	0.111	2	
108-05-4	Vinyl acetate		μg/l	U	2	4	
75-01-4	Vinyl chloride		μg/l	U	0.239	2	

Lab Name: Analytical Managment Laboratories	Sample ID: HAAF-B159-5-25
Client ID: CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W	Project Num 1642
Sample g/ml: 25	Lab Sample ID: 164209
% Solids: not dec.	Date Collected: 12/3/02 Time: 13:32
Instrument ID Instru	Dilution Factor: 5
Analytical Method: 8260B	Date Analyzed: 12/5/02 Time: 1:44
Prep Method: EPA 5030	Date Received: 12/4/02 10:10:00 AM

Analytical Batch: 1500

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10
71-55-6	1,1,1-Trichloroethane		μg/l	Ų	0.9	10
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10
96-12-8	1,2Dibromo3chloropropane		μg/l	U	0.665	10
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10
95-50-1	1,2-Dichlorobenzene		μg/l	U	0,705	10
107-06-2	1,2-Dichloroethane		μg/l	Ų	0.91	10
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10
541 - 73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10
142 - 28-9	1,3-Dichloropropane		μg/l	U	0.535	10
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10
78-93-3	2-Butanone		μg/l	U	2.41	10
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10
591-78-6	2-Hexanone		μg/l	U	0.815	10
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10
67-64-1	Acetone		μg/l	U	3.06	10
71-43-2	Benzene		μg/l	U	0.695	10
108-86-1	Bromobenzene		μg/l	U	0.78	10
74-97-5	Bromochloromethane		μg/l	U	0.825	10
75-27-4	Bromodichloromethane		μg/l	U	0.675	10
75-25-2	Bromoform		μg/l	U	0.815	10
74-83 - 9	Bromomethane		μg/l	U	1.01	10
75-15-0	Carbon disulfide		μg/l	U	0.915	10
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10
108-90-7	Chlorobenzene		μg/l	U	0.78	10
	O' III O' O D O I I E O I I O		pg,,	Ų	0.70	, 0

EPA Lab Code:KS00902

Kansas Certification:E-10254

Analytical Managment Laboratories Sample ID: HAAF-B159-5-25 Lab Name: Client ID: **CESAS** Project ID HAAF-MCA BARRACKS W Project Num 1642 Matrix: 25 Lab Sample ID: 164209 Sample g/ml: Date Collected: 12/3/02 Time: 13:32 % Solids: not dec. Dilution Factor: 5 instrument ID Instru 8260B Date Analyzed: 12/5/02 1:44 Analytical Method: Time: Date Received: 12/4/02 10:10:00 AM

Prep Method: EPA 5030

Analytical Batch: 1500

Allalytical batch.	1300					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
67-66-3	Chloroform		μg/l	U	1.07	10
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	Ų	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	U	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75 - 09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene	6.22	μg/l	J	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	บ	0.5	10
95-47-6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	Ü	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75 - 69-4	Trichlorofluoromethane		μg/l	U	0.555	10
108-05-4	Vinyl acetate		μg/l	U	10	20
75-01-4	Vinyl chloride		μg/l	U	1.2	10

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-5-30	
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS	
Matrix: W		Project Num 1642	
Sample g/ml:	: 25	Lab Sample ID: 164210	
% Solids: not		Date Collected: 12/3/02 Time: 13:50	
Instrument IE) Instru	Dilution Factor: 5	
Analytical Me	ethod: 8260B	Date Analyzed: 12/5/02 Time: 2:17	
Prep Metho		Date Received: 12/4/02 10:10:00 AM	

Prep Method: EPA 5030

Analytical Batch: 1500

Analytical Bateri						
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10
79-34-5	1,1,2,2-Tetrachloroethane		µg∕l	U	0.5	10
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10
96-12-8	1,2Dibromo3chloropropane		μg/l	U	0.665	10
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10
78-87 - 5	1,2-Dichloropropane		μg/l	U	0.595	10
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10
541-73-1	1,3-Dichlorobenzene		µg∕l	U	0.945	10
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10
78-93-3	2-Butanone		μg/l	U	2.41	10
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10
591-78-6	2-Hexanone		μg/l	U	0.815	10
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10
67-64-1	Acetone		μg/l	U	3.06	10
71-43-2	Benzene		μg/l	U	0.695	10
108-86-1	Bromobenzene		μg/l	υ	0.78	10
74-97-5	Bromochloromethane		μg/l	U	0.825	10
75-27-4	Bromodichloromethane		μg/l	U	0.675	10
75-25-2	Bromoform		μg/l	U	0.815	10
74-83-9	Bromomethane		μg/l	U	1.01	10
75-15-0	Carbon disulfide		µд∕І	U	0.915	10
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10
108-90-7	Chlorobenzene		μg/l	U	0.78	10
75-00-3	Chloroethane		μg/l	U	1.03	10

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-5-30
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W		Project Num 1642
Sample g/ml:	25	Lab Sample ID: 164210
% Solids: not	dec.	Date Collected: 12/3/02 Time: 13:50
Instrument ID	nstru	Dilution Factor: 5
Analytical Me	thod: 8260B	Date Analyzed: 12/5/02 Time: 2:17
Prep Method	t: EPA 5030	Date Received: 12/4/02 10:10:00 AM

Analytical Batch: 1500

Analytical Daton.	1000					
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
67-66-3	Chloroform		μg/l	U	1.07	10
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	Ü	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μ g /l	U	0.665	10
74-95-3	Dibromomethane		μg/l	U	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47-6	o-Xyłene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
108-05-4	Vinyl acetate		μg/l	U	10	20
75-01-4	Vinyl chloride		μg/l	U	1.2	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name: Analytical Managment Laboratories Sample ID: HAAF-B159-5-35 Client ID: **CESAS** Project ID HAAF-MCA BARRACKS Matrix: W Project Num 1642 Sample g/ml: 25 Lab Sample ID: 164211 % Solids: not dec. Date Collected: 12/3/02 Time: 14:10 Instrument ID Instru Dilution Factor: 5 Analytical Method: 8260B Date Analyzed: 12/5/02 2:49 Time: Prep Method: EPA 5030 Date Received: 12/4/02 10:10:00 AM

Analytical Batch: 1500

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichtorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
96-12-8	1,2Dibromo3chloropropane		μg/l	U	0.665	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591 - 78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	

EPA Lab Code:KS00902

Kansas Certification: E-10254

Lab Name:	Analytical Managment Laboratories	Sample ID: HAAF-B159-5-35
Client ID:	CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W		Project Num 1642
Sample g/ml	: 25	Lab Sample ID: 164211
% Solids: no	t dec.	Date Collected: 12/3/02 Time: 14:10
Instrument IE) Instru	Dilution Factor: 5
Analytical Me	ethod: 8260B	Date Analyzed: 12/5/02 Time: 2:49
Prep Method	d; EPA 5030	Date Received: 12/4/02 10:10:00 AM

Analytical Batch: 1500

Analytical batch.	1300						
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
67-66-3	Chloroform		μg/l	U	1.07	10	
74-87-3	Chloromethane		μg/l	U	0.865	10	
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10	
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10	
124-48-1	Dibromochloromethane		μg/l	U	0.665	10	
74-95-3	Dibromomethane		μg/l	U	0.5	10	
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10	
100-41-4	Ethylbenzene		μg/l	U	0.5	10	
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10	
98-82-8	Isopropylbenzene		μg/l	U	0.5	10	
75-09-2	Methylene chloride		μg/l	U	1.99	10	
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10	
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10	
91-20-3	Naphthalene		μg/l	U	0.695	10	
104-51-8	n-Butylbenzene		μg/l	U	0.7	10	
103-65-1	n-Propylbenzene		μg/l	U	0.5	10	
95-47-6	o-Xylene		μg/l	U	0.51	10	
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10	
100-42-5	Styrene		μg/l	U	0.5	10	
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10	
127-18-4	Tetrachloroethene		μg/l	U	0.575	10	
108-88-3	Toluene		μg/l	U	0.525	10	
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10	
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10	
79-01 - 6	Trichloroethene		μg/l	U	0.755	10	
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10	
108-05-4	Vinyl acetate		μg/l	U	10	20	
75-01-4	Vinyl chloride		μg/f	U	1.2	10	

Lab Name:	Analytical Managment Laboratories	Sample ID:	HAA	F-B159-5-40		
Client ID:	CESAS	Project ID	НАА	F-MCA BARRACK	S	
Matrix: W		Project Num	16	52		
Sample g/ml	l: <u>25</u>	Lab Sample I	ID:	165201		
% Solids: no	ot dec.	Date Collecte	ed:	12/4/02	Time:	8:45
Instrument II	D Instru	Dilution Facto	or:	5		
Analytical Me	ethod: 8260B	Date Analyze	ed:	12/5/02	Time:	16:37
Prep Metho	d: EPA 5030	Date Receive	ed: _	12/5/02 9:40:00 AM		

Analytical Batch: 1501

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	Ų	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75-00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	Ų	1.07	10	

EPA Lab Code:KS00902

Kansas Certification:E-10254

Lab Name: Analytical Managment Laboratories	Sample ID: HAAF-B159-5-40
Client ID: CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W	Project Num 1652
Sample g/ml: 25	Lab Sample ID: 165201
% Solids: not dec.	Date Collected: 12/4/02 Time: 8:45
Instrument ID Instru	Dilution Factor: 5
Analytical Method: 8260B	Date Analyzed: 12/5/02 Time: 16:37
Prep Method: EPA 5030	Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1501

CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	U	0.5	10
75-71-8	Dichlorodifluoromethane		μg/l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	U	1.08	10
91-20-3	Naphthalene		μg/l	Ų	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47-6	o-Xylene		µg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75 - 69-4	Trichlorofluoromethane		μg/l	U	0.555	10
108-05-4	Vinyl acetate		μg/l	U	10	20
75-01-4	Vinyl chloride		μg/l	U	1.2	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name: Analytical Managment Laboratories	Sample ID: HAAF-B159-5-45
Client ID: CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W	Project Num 1652
Sample g/ml: 25	Lab Sample ID: 165203
% Solids: not dec.	Date Collected: 12/4/02 Time: 9:05
nstrument ID Instru	Dilution Factor: 5
Analytical Method: 8260B	Date Analyzed: 12/5/02 Time: 17:42
Prep Method: EPA 5030	Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1501

Analytical Batch:	1501						
CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL	
630-20-6	1,1,1,2-Tetrachloroethane		μg/l	U	1.11	10	
71-55-6	1,1,1-Trichloroethane		μg/l	U	0.9	10	
79-34-5	1,1,2,2-Tetrachloroethane		μg/l	U	0.5	10	
79-00-5	1,1,2-Trichloroethane		μg/l	U	0.715	10	
75-34-3	1,1-Dichloroethane		μg/l	U	1.07	10	
75-35-4	1,1-Dichloroethene		μg/l	U	0.915	10	
563-58-6	1,1-Dichloropropene		μg/l	U	0.5	10	
87-61-6	1,2,3-Trichlorobenzene		μg/l	U	0.71	10	
96-18-4	1,2,3-Trichloropropane		μg/l	U	0.535	10	
120-82-1	1,2,4-Trichlorobenzene		μg/l	U	0.54	10	
95-63-6	1,2,4-Trimethylbenzene		μg/l	U	0.555	10	
106-93-4	1,2-Dibromoethane		μg/l	U	0.585	10	
95-50-1	1,2-Dichlorobenzene		μg/l	U	0.705	10	
107-06-2	1,2-Dichloroethane		μg/l	U	0.91	10	
78-87-5	1,2-Dichloropropane		μg/l	U	0.595	10	
108-67-8	1,3,5-Trimethylbenzene		μg/l	U	0.565	10	
541-73-1	1,3-Dichlorobenzene		μg/l	U	0.945	10	
142-28-9	1,3-Dichloropropane		μg/l	U	0.535	10	
106-46-7	1,4-Dichlorobenzene		μg/l	U	0.75	10	
590-20-7	2,2-Dichloropropane		μg/l	U	0.54	10	
78-93-3	2-Butanone		μg/l	U	2.41	10	
95-49-8	2-Chlorotoluene		μg/l	U	0.53	10	
591-78-6	2-Hexanone		μg/l	U	0.815	10	
106-43-4	4-Chlorotoluene		μg/l	U	0.5	10	
99-87-6	4-Isopropyltoluene		μg/l	U	0.5	10	
108-10-1	4-Methyl-2-pentanone		μg/l	U	0.64	10	
67-64-1	Acetone		μg/l	U	3.06	10	
71-43-2	Benzene		μg/l	U	0.695	10	
108-86-1	Bromobenzene		μg/l	U	0.78	10	
74-97-5	Bromochloromethane		μg/l	U	0.825	10	
75-27-4	Bromodichloromethane		μg/l	U	0.675	10	
75-25-2	Bromoform		μg/l	U	0.815	10	
74-83-9	Bromomethane		μg/l	U	1.01	10	
75-15-0	Carbon disulfide		μg/l	U	0.915	10	
56-23-5	Carbon tetrachloride		μg/l	U	0.685	10	
108-90-7	Chlorobenzene		μg/l	U	0.78	10	
75 - 00-3	Chloroethane		μg/l	U	1.03	10	
67-66-3	Chloroform		μg/l	U	1.07	10	

EPA Lab Code:KS00902 Kansas Certification:E-10254

Lab Name: Analytical Managment Laboratories	Sample ID: HAAF-B159-5-45
Client ID: CESAS	Project ID HAAF-MCA BARRACKS
Matrix: W	Project Num 1652
Sample g/ml: 25	Lab Sample ID: 165203
% Solids: not dec.	Date Collected: 12/4/02 Time: 9:05
Instrument ID Instru	Dilution Factor: 5
Analytical Method: 8260B	Date Analyzed: 12/5/02 Time: 17:42
Prep Method: EPA 5030	Date Received: 12/5/02 9:40:00 AM

Analytical Batch: 1501

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CAS NO.	COMPOUND	RESULT	Units	Q	MDL	MQL
74-87-3	Chloromethane		μg/l	U	0.865	10
156-59-2	cis-1,2-Dichloroethene		μg/l	U	0.755	10
10061-01-5	cis-1,3-Dichloropropene		μg/l	U	0.5	10
124-48-1	Dibromochloromethane		μg/l	U	0.665	10
74-95-3	Dibromomethane		μg/l	U	0.5	10
75-71-8	Dichlorodifluoromethane		μ g/ l	U	2.5	10
100-41-4	Ethylbenzene		μg/l	U	0.5	10
87-68-3	Hexachlorobutadiene		μg/l	U	0.96	10
98-82-8	Isopropylbenzene		μg/l	U	0.5	10
75-09-2	Methylene chloride		μg/l	U	1.99	10
1634-04-4	Methyl-tert-butyl-ether		μg/l	U	0.5	10
m+p xylene	m-Xylene and p-Xylene		μg/l	Ų	1.08	10
91-20-3	Naphthalene		μg/l	U	0.695	10
104-51-8	n-Butylbenzene		μg/l	U	0.7	10
103-65-1	n-Propylbenzene		μg/l	U	0.5	10
95-47-6	o-Xylene		μg/l	U	0.51	10
135-98-8	sec-Butylbenzene		μg/l	U	0.665	10
100-42-5	Styrene		μg/l	U	0.5	10
98-06-6	tert-Butylbenzene		μg/l	U	0.85	10
127-18-4	Tetrachloroethene		μg/l	U	0.575	10
108-88-3	Toluene		μg/l	U	0.525	10
156-60-5	trans-1,2-Dichloroethene		μg/l	U	0.76	10
10061-02-6	trans-1,3-Dichloropropene		μg/l	U	0.5	10
79-01-6	Trichloroethene		μg/l	U	0.755	10
75-69-4	Trichlorofluoromethane		μg/l	U	0.555	10
108-05-4	Vinyl acetate		μg/l	U	10	20
75-01 - 4	Vinyl chloride		μg/l	U	1.2	10

EPA Lab Code:KS00902 Kansas Certification:E-10254

City. State. Zip: SAVANNAH, GA 31402

Phone #: 82) 652-5660

Fax #: 4/2) 652-60/2

Client Contact Name: JIM WBBEDGE

PLEASE NOTE BOTTLES FROM
HAAF-MCA AREA & HAAF MCA BARBACKS
ARE ALL SAMS SOB Chain

Chain of Custody Record / Request for Analysis

BARRACKS Project Name MAF- MCA AREA Company Name US ARMY CORPS OF ENCINEERS Project Number: Purchase Order Number: 2006 Address O W. OCIETHORPE AVE, SAPOBOX 869 Project Due Date: **Project Comments:** Sampler's Signatures

Analyses/Method to be Performed (Check all that apply)

Laboratory F	Project Number:	んりょ			l			N	/leth	od	#>	>				X													
					tal # Containers		өас	Pres al nun h pres	servat mber o servat	ive fyp	les for pe.		TPH Diesel	I PH Gasoline	TRE	Volatiles (VOCs)		Pestecides/PCBs	PCBs	RCRA8 Metals	Lead	Flash Point	Paint Filter	-					Please include any information that may be useful in the analysis of the sample. Example: high concentration
Lab ID	Sample Description	Date	Time	Matrix			포	<u> </u>		<u>3</u> 3	4	Ŧ,		<u>- 'a</u>	<u>0 ≥</u>	>	m	1ª	<u>a</u>	Ä	Le	Ĭ.	ď	Ŧ	$\vdash\vdash$	\dashv	\dashv	\dashv	Comments:
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Chain of Custody Record / Request for Analysis

Client Contact Name: JM CUBBEDGE

Company Name: US ARMY CORPS OF FNGINERS

Address: 100 W. OGUETHORPE AVE, POBOX 889

City, State, Zip: SAVANNAH, GA 3140 Project Due Date:

Phone #: 912 652 - 6012

Fax #: 912 652 - 6012

Project Name: HAAF - MCA ARSA

Project Number:

Project Due Date:

Project Comments:

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Analyses/Method to be Performed (Check all that apply)

Laboratory Project Number: 1642 क्ष Method # ---> Preservative List total number of bottles for Please include any information each preservative type that may be useful in the analysis of the sample. Pestecides/PCBs Volatiles (VOCs) BNAs (SVOCs) RCRA8 Metals Example: high concentration Unpreserved Paint Filter H₂SO₄ Comments: Sample Description Date Time Matrix Lab ID HAAF-B159-5-35 DE08 1410 3 4 5 6 7 8 9 10 30802 3 DEC 00 1700 12/04/02 0010 1700 Date/Time: Date/Time: Received By: Relinquished By: Date/Time: Date/Time: Received By: 10:10am Relinquished By:

Delivery Method Deliverod in Person Courier Deliverod in Person Deli	Seals Coolant No: [1 tes Blue fee None	Cooler Temp. C Temp. Blank Cooler	Receiving Comments:	
□ Airbill #: O3-13(L-137(b()) □ Broken	I None	L Cooler	<u> </u>	

VIII-24

15130 B South Keeler Olathe, Kansas 66062 Phone (913) 829-0101 Fax (913) 829-1181

Client Contact Name: SIM CUBBEDGE

Company Name: US ARMY CORPS OF ENGLUSERS

Address: 100 W. OGLETHORPE, P.O. BOX 889

City, State, Zip: SAVANNAH, GA 3140 2

Phone #: (9/2) 652 - 5660

Fax #: (9/2) 652 - 60/2

Project Name: HAAF MCA BARREES

Project Number: D. O. # 0006

Project Due Date:

Project Comments:

Sampler's Signature: Margarets

Sampler's Signature: Margarets

Project Name: HAAF MCA BARREES

Project Number: D. O. # 0006

Project Comments: Sampler's Signature: Margarets

Analyses/Method to be Performed (Check all that apply)

388 Laboratory Project Number: Method # ---> Preservative List total number of bottles for Please include any information each preservative type. that may be useful in the analysis of the sample. BNAs (SVOCs) Pestecides/PCBs RCRA8 Metals Example: high concentration Flash Point Unpreser ,4 O Comments: Matrix Time Sample Description Date Lab ID MAAF-B159-5-40 40200 0845 HAAFBISF5-MS 4.08002 0850 HAAF BLST-5-MED HORCOS OSES HAAF 13159-5-45 408000 0905 W 3 0215 OLHARF BISY-B-BUNIYDEGA DS HANG. BIST-1-10 YDEGIA 0955 10802 1000 06 HAAF-BIS9-1-15 -07 NAAF-B159-1-20 1005 4085 12015 1852 08 HAAF-BIST-1-25 408002 408002 Date/Time: 1815 Received By: Date/Time: 9000 s Relinquished By: Date/Time: Received By: Date/Time: Relinguished By:

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Chain of Custody Record / Request for Analysis

Client Contact Name: 37 M CUBB EDGE		Project Name: HAAF - MCA BARRACK								
Company Name U. D. ARMY CORPS of Address: 100 W. OGLETHORPE	ENGINEERS	Project Number:Purchase Order Number:								
City, State, Zip: <u>SQVANNAH, GA 3/9</u> Phone #: (912) GS2 - 5660 Fax #: (912) GS2 - 60/2	Ó3	Project Due Date: Project Comments: Sampler's Signature Sampler's Signature								
Fax #. (170x) 1855 - 2		Analyses/Method to be Performed (Check all that apply)								
Laboratory Project Number: (652	Method # Preservative List total number of bottles for each preservative type.	Pleas	e includ nay be sis of th							

de any information useful in the he sample. Pestecides/PCE PCBs **RCRA8** Metals Volatiles (VOC TPH Gasoline Example, high concentration Unpreserved BNAs (SVO Lead Flash Point Paint Filter TPH Diesel MTBE BTEX NaOH H₂SO₂ , ONH Comments: Matrix Sample Description Date Time Lab ID 3 3 1025 W 4DECO2 HOAF-B159-1-30 3 W 1040 405cos 3 ኅ 4Drosa 0800 3 3 HOCCUL HAAF-B159-1-40 1100 <u>3</u> 3 1/2800 W 3 3 428003 J Ĉ \$DECO3 3 3 W 10 Eco a 3 3 350 W 405002 3

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[] Altoll #: Sea Sample Record Form	☐ Broken	☐ None	□ Cooler :		



Page 3 of 4 Chain of Custody Record / Request for Analysis

Project Name: #AAF MYA BARRESS

Project Number: DO# 0006

Project Due Date: Project Comments: Sampler's Signature: Downstand

Analyses/Method to be Performed (Check all that apply)

Client Contact Name: I'M CUBBEDGE

Company Name: U'S ARMY CORPS of ENCINEES

Address(20) W SCLETHMER POBOX 889

City, State, Zip: SAVANNAH CA 34402

Phone #: 912) 652-5660

Froject Name:

Project Number:

Project Due Date:

Project Comments:

Sampler's Signature:

Laboratory Project Number: 452 Method # ---> Preservative list total number of bottles for Please include any information each preservative type. that may be useful in the analysis of the sample. Volatiles (VOCs) BNAs (SVOCs) RCRA8 Metals Example: high concentration Unpreserved TPH Diesel NaOH H₂SO₂ Sample Description Date Time Matrix Comments: HAMF-18159-4-35 108000 1425 W 12002 1430 W 20 HAAF RIST-Y-YO 40202 14.33 W 10000 40800 4DECOL 3 42cos /620 WAAK-B159. 3-25 405002/6 40 4DECAS 408002 \circ 1845 Received By: s Relinquished By: Date/Time: Date/Time: Relinquished By: Date/Time: Received By: 4 Date/Time:

Delivery Method	Custody Seals	Coolant	Cooler Temp.	Receiving Comments:	100	
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Page 4 of 4 Chain of Custody Record / Request for Analysis

	Client Contact Name:	JIM.	CUBBA	<u>3 ව</u>												Pro	jecl	t Na	ame	: <u>†</u>	/A	Af	_/	V.	1	AR	RF	ack;	S	
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11 Airbill #: SE	rand par what torm	[] Broken		[] None			Con	alter			<u></u>																			

Client (Contact Na	ame:	JIM	CUBA	382	16E		
Co	ompany Na	ame: U	SARM	YCOR	P5	of	ENGIN	EERS
	Addı	ess: JC	XXW.	0628-	THO	RPE	POBO	(889
(City, State,							
	Phor	ne #: 19	112) e	652-	566	30		
	Fa	x #: (7/2)	652	- 6	0/2-	-	

Project Name: HAAF-NCA BARRACKS Project Number:__ Purchase Order Number: D 0 # 0006 Project Due Date:_ Project Comments: Sampler's Signature Truff class

Analyses/Method to be Performed (Check all that apply) Laboratory Project Number: 1665 Method # ---> Preservative List total number of bottles for Please include any information each preservative type. that may be useful in the analysis of the sample. Pestecides/PCBs PCBs Volatiles (VOCs) BNAs (SVOCs) RCRA8 Metals TPH Gasoline Example: high concentration Paint Filter NaOH H₂SO₄ O Comments: Sample Description Matrix Date Time Lab ID DECOR 0835 4MAF-8159-3-35 ഗഗ HADF-13159-3-40 W 3 W 33 HAF-B159-2-15 TRIP BLANK HAAF-B159-2-20 60802/250 3 W W D9 HAY-8159-2-30 6285030300

	C U	00 6]	608002		510		1920
	S Relinquished By:	anosolacos	Date/Time:	1830	Received By:	Ted EX	Date/Time:	1830
0 0	0					// /		12/07/02
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	y Hemiquened By:		L					

r	Delivery Method	Custody Seals	Coolant	Cpoler Temp.	Receiving Comments:
- 1		LYNN II NO	2 160	1 1.9 c	l .
- 1	L. Delivered in Norsen			1 1. 1. ".	1
- 1	4 Country Led	Intact	[7] Blue Ice	Comp. Blank	1
- 1	カニー ファート	1 Broken	11 None	D Cooler	,
- 1	11 AHDII # B3754737W	10		1	

Relinguished By:

15130 B South Keeler Olathe, Kansas 66062 Phone (913) 829-0101 Fax (913) 829-1181

Page 2 of 2
Chain of Custody Record / Request for Analysis

Date/Time:

Client Contact Name: JIM CUBB EDG E
Company Name: US ARMY CORPS OF ENGINEERS
Address: 100 W. OSLETHORPE, POBOX 889
City, State, Zip: SAVANNAH, GA 3/402
Phone #: (9/2) 652-5660
Fax #: (912) 652-60/2

Project Name: HAAF-MCA BARRACKS
Project Number:
Purchase Order Number: D 0#0006
Project Due Date:
Project Comments:
Sampler's Signature David Local

Analyses/Method to be Performed (Check all that apply) 5%0 1665 Laboratory Project Number: Method # ---> Preservative List total number of bottles for Please include any information each preservative type. that may be useful in the analysis of the sample. Pestecides/PCBs PCBs Volatiles (VOCs) BNAs (SVOCs) TPH Gasoline BTEX RCRA8 Metais Example: high concentration Unpreserved Lead Flash Point Filter NaOH H₂SO₂ NO. O Comments: Matrix Time Lab ID Sample Description Date 1330 60800 .3 1333 W 3 3 3 1440 3 1510 HAAF 0159-2-BLK3 3 3 3 1430 3 1 1640 HAAF-MUP-1-20 3 " HAAF-MUP-1-25 6DECOQ Date/Time: Date/Time: Received By: 8 Relinquished By:

By signing the request (chain of custody) you are ordering work from Analytical Management Laboratories, Inc. which constitutes the acceptance of the terms and conditions on the back of this form.

Date/Time:

Received By.

Delivery Method	Custody Seals	Coolant	Cooler Temp.	Receiving Comments:		
[] Delivered rePerson	Yes II No	[9 [60	1.490		•	
L'ander Led Ex	Intact	() Blue tos	Lemp Blank			
1 Addit to 75 1, 737 152	2 □ Broken	{] None	□ Cooler			

APPENDIX IX CONTAMINATED SOIL DISPOSAL

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Underground Storage Tanks 25 & 26, Facility ID #9-025008, were closed in place with concrete slurry in 1998. Soil was not excavated during in-place closure activities; therefore, soil disposal was not required for the site.

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APPENDIX X

SITE RANKING FORM

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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The site ranking form associated with the benzene plume was presented in the Corrective Action Plan (CAP)—Part B report dated February 2000, and the site ranking score was 5,750. The site ranking form associated with the benzene plume is being updated with each semiannual monitoring sampling event being conducted under the Monitoring Only Plan and is presented in each annual monitoring only report for the site, which is due to the Georgia Environmental Protection Division in July of each year. The site ranking form does not account for the trichloroethene that is present at the site; therefore, the form was not updated as part of this document/addendum.

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APPENDIX XI PUBLIC NOTIFICATION

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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AFFIDAVIT OF PUBLICATION SAVANNAH MORNING NEWS

STATE OF GEORGIA COUNTY OF CHATHAM

Personally appeared before me, ELIZABETH MC LAUGHLIN, to me known, who being sworn, deposes and says:

That she is the CLASSIFIED INSIDE SALES MANAGER of Southeastern Newspaper Corporation, a Georgia corporation, doing business in Chatham County, Ga., under the trade name of Savannah Morning News, a daily newspaper published in said county;

That she/he is authorized to make affidavits of publication on behalf of said published corporation;

That said newspaper is of general circulation in said county and in the area adjacent thereto;

That she/he has reviewed the regular editions of the Savannah Morning News, published on:

Feb 16	, 2003_ ofer	<u>l., 23</u> , 2003,
		, 2003,
and finds that the follo	wing advertisement, to	-wit:

Notification of Corrective Action Plan Underground Storage Fort Stewart, Georgia of Public Works to Proper Corrective Proper Corrective Proper Corrective Proper Corrective Action Plans Part B to Investigate of Public Works to Investigate of Public Works to Action Plans Part B to Investigate of Public Works Bulling Investigate and Act of Clean up contramination out the contramination out the Corrective Action Plans Branch Contramination of the GEPD on or before April 30, 2003. If You want to Act Tive T. Rutland Directories of Public Works, Bulling 1337 HQS 3D IN DIV (MECH) and Fort Stewart Act 1330 Frank Cochran Dr. Fort Stewart Act 13314-4737.	A copy will be mailed at a rominal fee. Comments to the plan will be accepted until May 30, 203, and should be directed to GEPD all the mailing address: 444, 362-567, Following is the mailing address: 444, 362-567, Following is the mailing address: 444 international Pkwy, Suite 104. Attanta, GA 30344 Hunter Army Airtield. Fort B Underground \$50-029.
---	--

Appeared in each of said editions. Sworn to and subscribed before me

This 7xh day of march 2003

(Deponent)

Notary Public, Chatham County, Ga.

EUGENE J. CRONK
Notary Public, Chatham County, GA
My Commission Expires February 5, 2006

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ATTACHMENT A CERTIFICATES OF ANALYSIS

Hunter Army Airfield UST CAP–Part B Addendum #2 Report USTs 25 & 26, Building 1343, Facility ID #9-025008

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a Member of THE GEL GROUP, INC. Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF** Long Term Monitoring

Client Sample ID:

Sample ID: Matrix: Water

Collect Date: 16-JUL-02 08:40 Receive Date: 19-JUL-02 Collector:

SAIC00101 AF6312 Project: SAIC031 Client ID: 63882003

Report Date: January 21, 2003

Page

1

2 of

Client Qualifier Result RLUnits DF AnalystDate Time Batch Method **Parameter** DLVolatile Organics Federal 8260B Volatiles In Liquid Federal CDS1 07/30/02 1101 189667 ND 0.340 1.00 ug/L 1.1.1-Trichloroethane 1.00 ug/L 1,1,2,2-Tetrachloroethane HU ND 0.490 0.440 1.00 ug/L 1,1,2-Trichloroethane HUND 0.410 1.00 ug/L 1.1-Dichloroethane HU ND 0.410 1.00 ug/L 1,1-Dichloroethylene HU ND HU ND 0.290 1.00 ug/L 1,2-Dichloroethane 1,2-Dichloroethylene (total) HU ND 0.630 2.00 ug/L ug/L 1.00 HU ND 0.250 1 1,2-Dichloropropane 5.00 HU ND 2.31 ug/L 2-Butanone HU ND 1.45 5.00 ug/L 2-Hexanone 1.78 5.00 ug/L 4-Methyl-2-pentanone HU ND 5.00 6.41 2.29 ug/L Acetone Н HJ 0.921 0.330 1.00 ug/L Benzene ug/L 0.380 1.00 Bromodichloromethane HU ND 1.00 ug/L Bromoform HU ND 0.500 Bromomethane HU ND 0.500 1.00 ug/L 1.91 5.00 ug/L HU ND 1 Carbon disulfide HU ND 0.290 1.00 ug/L Carbon tetrachloride Chlorobenzene HU ND 0.320 1.00 ug/L ŧ 1.00 HUND 0.500 ug/L 1 Chloroethane 0.360 1.00 Chloroform HU ND ug/L 1.00 Chloromethane HU ND 0.500 ug/L Dibromochloromethane HUND 0.290 1.00 ug/L Ethylbenzene 0.210 1.00 ug/L HU ND 5.00 ug/L Methylene chloride HU ND 1.90 0.250 1.00 ug/L HII ND Styrene Tetrachloroethylene HU ND 0.330 1.00 ug/L 0.390 1.00 ug/L Toluene Н 2.40 ug/L HU ND 0.360 1.00 Trichloroethylene Vinyl chloride HU ND 0.550 1.00 ug/L 1.01 0.830 3.00 ug/L Xylenes (total) HI 1 HUND 0.300 1.00 ug/L cis-1,3-Dichloropropylene

The following Prep Methods were performed

trans-1,3-Dichloropropylene HU

ND

Time **Prep Batch** Method Description Analyst Date CDS1 07/30/02 1101 189667 8260B Volatiles In Liquid Federal SW846 8260B

0.290

1.00

ug/L



a Member of THE GEL GROUP, INC. Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF Long Term Monitoring

AF6312

63882003

Project: Client ID:

SAIC00101 SAIC031

Report Date: January 21, 2003

Page 2 of

Parameter

Qualifier

Sample ID:

Client Sample ID:

Result

DL

RL

Units

AnalystDate

Time Batch Method

The following Analytical Methods were performed

Method Description

Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	115%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	106%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	116%	(58%-139%)

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Ε Concentration exceeds instrument calibration range
- Holding time exceeded Η
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. J
- The response between the confirmation column and the primary column is >40%D
- Indicates the compound was analyzed for but not detected above the detection limit U
- UI Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard/operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



a Member of THE GEL GROUP, INC. Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Client Sample ID:

Project:

HAAF Long Term Monitoring

AF6322

Sample ID: 63880018 Matrix: Water

Collect Date: 16-JUL-02 08:57 Project: Client ID:

SAIC00101

SAIC031

Report Date: January 21, 2003

Page

1 of 2

	eceive Date: ollector:		19-JUL-02 Client	.57							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method	
Volatile Organics Federal							•				
8260B Volatiles In Liquid F	ederal										
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	RMB 07/29/02	1943	189515	1	
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1	•			•	
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1					
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1					
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1					
1,2-Dichloroethylene (total	l) U	ND	0.630	2.00	ug/L	1					
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1					
2-Butanone	U	ND	2.31	5.00	ug/L	1					
2-Hexanone	U	ND	1.45	5.00	ug/L	1					
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1					
Acetone	U	ND	2.29	5.00	ug/L	1					
Benzene		5.57	0.330	1.00	ug/L	1					
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1					
Bromoform	U	ND	0.500	00.1	ug/L	1					
Bromomethane	U	ND	0.500	1.00	ug/L	1					

Bromodichloromethane	U	ND	0.380	1.00	ug/L	1
Bromoform	U	ND	0.500	1.00	ug/L	1
Bromomethane	U	ND	0.500	1.00	ug/L	1
Carbon disulfide	U	ND	1.91	5.00	ug/L	1
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	i
Chlorobenzene	U	ND	0.320	1.00	ug/L	i
Chloroethane	U	ND	0.500	1.00	ug/L	1
Chloroform	U	ND	0.360	1.00	ug/L	1
Chloromethane	U	ND	0.500	1.00	ug/L	1
Dibromochloromethane	U	ND	0.290	1.00	ug/L	i
Ethylbenzene		3.47	0.210	1.00	ug/L	1
Methylene chloride	U	ND	1.90	5.00	ug/L	i
Styrene	U	ND	0.250	1.00	ug/L	1
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	i
Toluene	J	0.829	0.390	1.00	ug/L	1
Trichloroethylene	U	ND	0.360	1.00	ug/L	1
Vinyl chloride	U	ND	0.550	1.00	ug/L	1
Xylenes (total)	U	ND	0.830	3.00	ug/L	1
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1
						-

The following Prep Methods were performed

U

ND

trans-1,3-

Dichloropropylene

Method Description Analyst Date Time **Prep Batch** SW846 8260B 8260B Volatiles In Liquid Federal 07/29/02 **RMB** 1943 189515

0.290

1.00

ug/L



a Member of THE GEL GROUP, INC. Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF Long Term Monitoring

Client Sample ID: Sample ID:

AF6322

Project:

SAIC00101

63880018

Client ID:

SAIC031

Report Date: January 21, 2003

Parameter

Oualifier

Result

DL

RL Units DF AnalystDate Time Batch Method

of 2

The following Analytical Methods were performed

Method Description

Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	111%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	104%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	99%	(58%-139%)

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. T
- The response between the confirmation column and the primary column is >40%D P
- U Indicates the compound was analyzed for but not detected above the detection limit
- Uncertain identification for gamma spectroscopy. UI
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



a Member of THE GEL GROUP, INC.

Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Č

SAIC00101

SAIC031

Project:

Client ID:

Report Date: January 21, 2003

Page

of 2

Client Sample ID: AF6332
Sample ID: 63880012
Matrix: Water

Collect Date: 16-JUL-02 09:13
Receive Date: 19-JUL-02
Collector: Client

Qualifier **Parameter** Result DL RL Units DF AnalystDate Time Batch Method Volatile Organics Federal 8260B Volatiles In Liquid Federal 1,1,1-Trichloroethane U ND 0.340 1.00 ug/L 1 RMB 07/29/02 1644 189515 1,1,2,2-Tetrachloroethane U ND 0.490 1.00 ug/L 1,1,2-Trichloroethane U ND 0.440 1.00 ug/L 1 1,1-Dichloroethane U ND 0.410 1.00 ug/L 1 1,1-Dichloroethylene H ND 0.410 1.00 ug/L 1,2-Dichloroethane U ND 0.2901.00 ug/L 1,2-Dichloroethylene (total) U ND 0.630 2.00 ug/L П 1,2-Dichloropropane ND 0.250 1.00 ug/L 2-Butanone U ND 2.31 5.00 ug/L 2-Hexanone U ND 1.45 5.00 ug/L 1 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L Acetone U ND 2.29 5.00 ug/L 1 Benzene U ND 0.330 1.00 ug/L 1 Bromodichloromethane 1 I ND 0.380 1.00 ug/L Bromoform U ND 0.500 1.00 ug/L 1 Bromomethane U ND 0.500 1.00 ug/L Carbon disulfide H ND 1.91 5.00 ug/L Carbon tetrachloride U ND 0.290 1.00 ug/L Chlorobenzene U ND 0.320 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L Chloroform U ND 0.360 1.00 ug/L Chloromethane U ND 0.500 1.00 ug/L Dibromochloromethane U ND 0.290 1.00 ug/L Ethylbenzene U ND 0.210 ug/L 1.00 Methylene chloride ΒI 2.26 1.90 5.00 ug/L Styrene U ND 0.250 1.00 ug/L Tetrachloroethylene U ND 0.330 1.00 ug/L Toluene 0.741 1 0.390 1.00 ug/L Trichloroethylene U ND 0.360 1.00 ug/L Vinyl chloride U ND 0.550 ug/L 1.00 Xylenes (total) U ND 0.830 3.00 ug/L cis-1,3-Dichloropropylene U ND 0.300 1.00 ug/L 1 trans-1,3-U ND 0.290 1.00 ug/L ١ Dichloropropylene

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalRMB07/29/021644189515



a Member of THE GEL GROUP, INC.

Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Page 2 of 2

Client Sample ID: AF6332 Project: SAIC00101 Sample ID: 63880012 Client ID: SAIC031

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

I SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	119%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	104%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	99%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



a Member of THE GEL GROUP, INC. Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Page 1 of 2

SAIC00101

SAIC031

Project:

Client ID:

Report Date: January 21, 2003

Client Sample ID: AF6342 Sample ID: 63880007 Water Matrix:

Collector:

Collect Date: 16-JUL-02 09:31 Receive Date: 19-JUL-02 Client

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid Fe	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	RMB 07/29/02	1414	189515	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total)	J	0.712	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	i				
Toluene	J	0.768	0.390	1.00	ug/L	1				
Trichloroethylene		12.9	0.360	1.00	ug/L	l				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	RMB	07/29/02	1414	189515



a Member of THE GEL GROUP, INC. Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring**

Report Date: January 21, 2003

Client Sample ID:

AF6342

Project:

SAIC00101

Sample ID:

63880007

Client ID:

Units

SAIC031

Parameter

Qualifier

Result

DL

RL

AnalystDate

Time Batch Method

of

The following Analytical Methods were performed

Method Description **Analyst Comments**

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	124%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	104%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
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- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- Uncertain identification for gamma spectroscopy. UI
- Χ Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

The above sample is reported on an "as received" basis.

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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Page 1 of 2

Report Date: January 21, 2003

SAIC00101 SAIC031

Proiect: Client ID:

Client Sample ID: AF6352 Sample ID: 63880017 Matrix: Water

Collect Date: 16-JUL-02 10:10 19-JUL-02

Receive Date: Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid Fe	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	RMB 07/29/02	1914	189515	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total)) J	1.19	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene		1.85	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	ŀ				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	ł				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	J	0.453	0.210	1.00	ug/L	1				
Methylene chloride	BJ	2.31	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		2.03	0.390	1.00	ug/L	1				
Trichloroethylene		20.9	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	RMB	07/29/02	1914	189515



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Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring of

Client Sample ID:

AF6352

Project:

SAIC00101

Sample ID:

63880017

DL

Client ID:

SAIC031

Parameter

Qualifier

RL

Units

DF AnalystDate

Time Batch Method

The following Analytical Methods were performed

Method Description **Analyst Comments**

Result

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	121%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

Notes:

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- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Η Holding time exceeded

Valen han

- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- Χ Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 1 of 2

SAIC00101

SAIC031

Project:

Client ID:

Report Date: January 21, 2003

Client Sample ID: AF6362
Sample ID: 63880010
Matrix: Water

Collect Date: 16-JUL-02 10:35
Receive Date: 19-JUL-02

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	RMB 07/29/02	1544	189515	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	00.1	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total)	4.49	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene		3.04	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	00.1	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	l				
Methylene chloride	BJ	2.00	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene	J	0.511	0.390	1.00	ug/L	1				
Trichloroethylene		71.7	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	ì				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	RMB	07/29/02	1544	189515



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Client Sample ID: AF6362 Proiect: SAIC00101 Sample ID: 63880010 Client ID: SAIC031

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	123%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	99%	(58%-139%)

Notes:

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- H Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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Certificate of Analysis

Company: SAIC

Parameter

Toluene

trans-1,3-

Trichloroethylene

cis-1,3-Dichloropropylene

Vinyl chloride

Xylenes (total)

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Qualifier

Page 1 of 2

Time Batch Method

Report Date: January 21, 2003

SAIC00101

AnalystDate

SAIC031

Proiect: Client ID:

DF

Units

Client Sample ID: AF63 4
Sample ID: 63880006
Matrix: Water

Collect Date: 16-JUL-02 10:35
Receive Date: 19-JUL-02
Collector: Client

Result

Volatile Organics Federal 8260B Volatiles In Liquid Federal 1,1,1-Trichloroethane H ND 0.340 1.00 ug/L RMB 07/29/02 1345 189515 1,1,2,2-Tetrachloroethane 0.490 1.00 U ND ug/L 1,1,2-Trichloroethane U ND 0.440 1.00 ug/L U ND 0.410 1.00 ug/L 1,1-Dichloroethane 1,1-Dichloroethylene U ND 0.410 1.00 ug/L ND 0.290

0.390

0.360

0.550

0.830

0.300

0.290

1.00

1.00

1.00

3.00

1.00

1.00

ug/L

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DL

RL

1,2-Dichloroethane U 1.00 ug/L 1,2-Dichloroethylene (total) 4.21 0.630 2.00 ug/L 1,2-Dichloropropane U ND 0.250 1.00 ug/L 2-Butanone H ND 2.31 5.00 ug/L U ND 1.45 5.00 ug/L 2-Hexanone 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L U ND 5.00 ug/L Acetone 2.29 ug/L Benzene 3.02 0.330 1.00 Bromodichloromethane U ND 0.380 1.00 ug/L U ND 0.500 1.00 Bromoform ug/L Bromomethane U ND 0.500 1.00 ug/L Carbon disulfide U ND 1.91 5.00 ug/L Carbon tetrachloride U ND 0.290 1.00 ug/L Chlorobenzene U ND 0.320 1.00 ug/L Chloroethane U ND 0.500 1.00 ug/L Chloroform П ND 0.360 1.00 ug/L Chloromethane U ND 0.500 1.00 ug/L Dibromochloromethane U 0.290 1.00 ND ug/L Ethylbenzene U ND 0.210 1.00 ug/L Methylene chloride BJ 2.19 1.90 5.00 ug/L Styrene U ND 0.250 1.00 ug/L Tetrachloroethylene U 0.330 1.00 ND ug/L -1

Dichloropropylene

The following Prep Methods were performed

J

U

U

U

U

0.529

68.7

ND

ND

ND

ND

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalRMB07/29/021345189515



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Report Date: January 21, 2003

SAIC00101

SAIC031

Client Sample ID: AF6394 Project: Sample ID: 63880006 Project: Client ID:

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	122%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	104%	(62% -148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

Notes:

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- H Holding time exceeded
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- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
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Reviewed by

P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407) Phone (843) 556-8171 • Fax (843) 766-1178 • www.gel.com



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Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Project: SAIC00101 Client ID: SAIC031

Report Date: January 21, 2003

Page

of 2

Client Sample ID: AF6372 Sample ID: 63880011 Matrix: Water

Collect Date: 16-JUL-02 11:08
Receive Date: 19-JUL-02
Collector: Client

Client Qualifier **Parameter** Result DLRLUnits DF AnalystDate Time Batch Method Volatile Organics Federal 8260B Volatiles In Liquid Federal ug/L RMB 07/29/02 1614 189515 1.1.1-Trichloroethane U ND 0.340 1.00 1,1,2,2-Tetrachloroethane U ND 0.490 1.00 ug/L 1,1,2-Trichloroethane U ND 0.440 1.00 ug/L 1,1-Dichloroethane U ND 0.410 1.00 ug/L 1 1,1-Dichloroethylene U ND 0.410 1.00 ug/L U ug/L 1,2-Dichloroethane ND 0.290 1.00 1,2-Dichloroethylene (total) U ND 0.630 2.00 ug/L 1,2-Dichloropropane U ND 0.250 1.00 ug/L U 5.00 2-Butanone ND 2.31 ug/L 2-Hexanone U ND 1.45 5.00 ug/L 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L U 5.00 Acctone ND 2.29 ug/L Benzene 1.35 0.330 1.00 ug/L U Bromodichloromethane ND 0.380 1.00 ug/L Bromoform U ND 0.500 1.00 ug/L U 0.500 1.00 Bromomethane ND ug/L Carbon disulfide U ND 1.91 5.00 ug/L Carbon tetrachloride U 0.290 ug/L ND 1.00 Chlorobenzene U ND 0.320 1.00 ug/L U 1.00 Chloroethane ND 0.500 ug/L Chloroform U ND 0.360 1.00 ug/L Chloromethane U ND 0.500 1.00 ug/L U Dibromochloromethane ND 0.290 1.00 ug/L Ethylbenzene J 0.642 0.210 1.00 ug/L Methylene chloride U ND 1.90 5.00 ug/L Styrene U 1.00 ND 0.250 ug/L ł Tetrachloroethylene U ND 0.330 1.00 ug/L 1 Toluene J 0.5650.390 1.00 ug/L 1.00 Trichloroethylene ı 0.886 0.360 ug/L 1 U ug/L Vinyl chloride ND 0.550 1.00 1 Xylenes (total) U ND 0.830 3.00 ug/L 1 cis-1,3-Dichloropropylene 1.00 U ND 0.300 ug/L 1 trans-1,3-U ND 0.290 1.00 ug/L 1 Dichloropropylene

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalRMB07/29/021614189515



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

Page 2 of 2

Client Sample ID:

AF6372

Project:

SAIC00101

Sample ID:

63880011

Client ID:

SAIC00101

Parameter

Qualifier

Result

DL.

RL

Units

DF AnalystDate

Time Batch Method

The following Analytical Methods were performed

Method Description

Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	118%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	103%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	99%	(58%-139%)

Notes:

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- H Holding time exceeded
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Company: SAIC

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Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Report Date: January 21, 2003

Page 1 of 2

Client Sample ID: Sample ID:

AF6382 63882001 Water

Project: Client ID: SAIC00101 SAIC031

Matrix:

Collect Date: Receive Date: Collector:

16-JUL-02 11:42 19-JUL-02

Client

	011001011		Chem							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	Federal									
1,1,1-Trichloroethane	U	ND	8.50	25.0	ug/L	25	CDS1 07/30/02	1004	189667	1
1,1,2,2-Tetrachloroethane	U	ND	12.3	25.0	ug/L	25				
1,1,2-Trichloroethane	U	ND	11.0	25.0	ug/L	25				
1,1-Dichloroethane	U	ND	10.3	25.0	ug/L	25				
1,1-Dichloroethylene	U	ND	10.3	25.0	ug/L	25				
1,2-Dichloroethane	U	ND	7.25	25.0	ug/L	25				
1,2-Dichloroethylene (tota	1)	117	15.8	50.0	ug/L	25				
1,2-Dichloropropane	U	ND	6.25	25.0	ug/L	25				
2-Butanone	U	ND	57.8	125	ug/L	25				
2-Hexanone	U	ND	36.3	125	ug/L	25				
4-Methyl-2-pentanone	U	ND	44.5	125	ug/L	25				
Acetone	U	ND	57.3	125	ug/L	25				
Benzene	U	ND	8.25	25.0	ug/L	25				
Bromodichloromethane	U	ND	9.50	25.0	ug/L	25				
Bromoform	U	ND	12.5	25.0	ug/L	25				
Bromomethane	U	ND	12.5	25.0	ug/L	25				
Carbon disulfide	U	ND	47.8	125	ug/L	25				
Carbon tetrachloride	U	ND	7.25	25.0	ug/L	25				
Chlorobenzene	U	ND	8.00	25.0	ug/L	25				
Chloroethane	U	ND	12.5	25.0	ug/L	25				
Chloroform	U	ND	9.00	25.0	ug/L	25				
Chloromethane	U	ND	12.5	25.0	ug/L	25				
Dibromochloromethane	U	ND	7.25	25.0	ug/L	25				
Ethylbenzene	U	ND	5.25	25.0	ug/L	25				
Methylene chloride	U	ND	47.5	125	ug/L	25				
Styrene	U	ND	6.25	25.0	ug/L	25				
Tetrachloroethylene	U	ND	8.25	25.0	ug/L	25				
Toluene	U	ND	9.75	25.0	ug/L	25				
Trichloroethylene		1250	9.00	25.0	ug/L	25				
Vinyl chloride	U	ND	13.8	25.0	ug/L	25				
Xylenes (total)	U	ND	20.8	75.0	ug/L	25				
cis-1,3-Dichloropropylene	U	ND	7.50	25.0	ug/L	25				
trans-1,3-	U	ND	7.25	25.0	ug/L	25				
Dichloropropylene										

The following Prep Methods were performed

Method Description **Prep Batch** Analyst Date Time CDS1 07/30/02 1004 189667



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Client Sample ID:

AF6382

Project:

SAIC00101

Sample ID:

63882001

Client ID:

SAIC031

Parameter

Qualifier Result

DL

RL Units

DF AnalystDate

Time Batch Method

SW846 8260B

8260B Volatiles In Liquid Federal

The following Analytical Methods were performed

Method Description Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	115%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	107%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	114%	(58%-139%)

Notes:

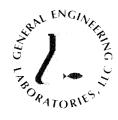
The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



AF6392

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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

of 2 Page

> Project: Client ID:

SAIC00101

SAIC031

Report Date: January 21, 2003

Client Sample ID: Sample ID:

63882005 Matrix: Water

Collect Date: 16-JUL-02 12:42 Receive Date: 19-JUL-02 Collector: Client

Parameter Qualifier Result DL RLUnits DF AnalystDate Time Batch Method Volatile Organics Federal 8260B Volatiles In Liquid Federal 1.1.1-Trichloroethane U ND 1.70 5.00 ug/L 5 CDS1 07/30/02 1158 189667 1.1.2.2-Tetrachloroethane 5.00 U ND 2.45 ug/L 5.00 5 1,1,2-Trichloroethane U ND 2.20 ug/L 5.00 5 H ND 2.05 ug/L 1.1-Dichloroethane 5.00 5 1,1-Dichloroethylene U ND 2.05 ug/L 1,2-Dichloroethane U ND 1.45 5.00 ug/L 5 ug/L 5 1,2-Dichloroethylene (total) 38.7 3.15 10.0 1,2-Dichloropropane U ND 1.25 5.00 ug/L 5 5 2-Butanone U ND 11.6 25.0 ug/L 25.0 5 2-Hexanone 11 ND 7.25 ug/L 4-Methyl-2-pentanone 8.90 25.0 U ND ug/L 5 5 Acetone U ND 11.5 25.0 ug/L 5.00 5 Benzene U ND 1.65 ug/L Bromodichloromethane U ND 1.90 5.00 ug/L 5 5 5.00 Bromoform U ND 2.50 ug/L 5 U ND 2.50 5.00 ug/L Bromomethane Carbon disulfide U ND 9.55 25.0 ug/L 5 5 Carbon tetrachloride H ND 1.45 5.00 ug/L ug/L 5 Chlorobenzene U ND 1.60 5.00 5 Chloroethane U ND 2.50 5.00 ug/L Chloroform П 5.00 5 5 5 ND 1.80 ug/L Chloromethane U ND 2.50 5.00 ug/L Dibromochloromethane U ND 1.45 5.00 ug/L 5 Ethylbenzene U ND 5.00 1.05 ug/L Methylene chloride U 25.0 ND 9.50 ug/L 5 5 5 Styrene U ND 1.25 5.00 ug/L Tetrachloroethylene 5.00 U ND 1.65 ug/L 5 5 5.00 Toluene J 3.82 1.95 ug/L Trichloroethylene 344 1.80 5.00 ug/L 5 Vinyl chloride U ND 5.00 ug/L 2.75 Xylenes (total) U 4.15 15.0 5 ND ug/L cis-1,3-Dichloropropylene 5 U ND 1.50 5.00 ug/L U 5 trans-1,3-ND 1.45 5.00 ug/L Dichloropropylene

The following Prep Methods were performed

Description Method Analyst Date Time **Prep Batch** SW846 8260B CDS1 8260B Volatiles In Liquid Federal 07/30/02 1158 189667



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Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring of

Client Sample ID:

AF6392

Project:

SAIC00101

Sample ID:

63882005

Client ID:

SAIC031

Parameter

Qualifier

Result

DL

RLUnits DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description **Analyst Comments**

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	117%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	111%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	117%	(58%-139%)

The Qualifiers in this report are defined as follows:

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- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range Ε
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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Company: SAIC

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Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 1 of 2

SAIC00101

SAIC031

Proiect: Client ID:

Report Date: January 21, 2003

Client Sample ID: AF6422
Sample ID: 63880009
Matrix: Water

Collect Date: 16-JUL-02 14:40 Receive Date: 10 JUL 02

Receive Date: 19-JUL-02 Collector: Client

Collector: Client

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Me

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid Fe	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	RMB 07/29/02	1514	189515	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	i				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total)) U	ND	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	BJ	2.08	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		1.05	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene					ū					

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalRMB07/29/021514189515



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Certificate of Analysis

Company: SAIC

Contact:

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

Page 2 of 2

Client Sample ID:

AF6422

Project:

SAIC00101

Sample ID:

63880009

Client ID:

SAIC031

Parameter

Qualifier

Result

DL

RL

Units

DF AnalystDate

Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	120%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	104%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

Notes

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- BD Flag for results below the MDC or a flag for low tracer recovery.
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- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
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Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring** Report Date: January 21, 2003

SAIC00101

SAIC031

Project: Client ID: Page 1 of 2

Client Sample ID: AF6432 Sample ID: Matrix: 63880014 Water

Collect Date: 16-JUL-02 14:53

Receive Date: 19-JUL-02 Collector: Client

Θ.	onector.		Chefft							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	RMB 07/29/02	1745	189515	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	l				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	l				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	i				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	i				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	BJ	2.50	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		2.23	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene					-					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	RMB	07/29/02	1745	189515



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring of

Client Sample ID:

AF6432

Project:

SAIC00101

Sample ID:

63880014

Client ID:

SAIC031

Parameter

Qualifier

Result

DL RL Units

DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description **Analyst Comments**

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	123%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	104%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

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- Analyte found in the sample as well as the associated blank. В
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range Ε
- Holding time exceeded Н
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- The response between the confirmation column and the primary column is >40%D
- Indicates the compound was analyzed for but not detected above the detection limit H
- Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Page 1 of 2

SAIC00101 SAIC031

Project:

Client ID:

Report Date: January 21, 2003

AF6442 Client Sample ID: Sample ID: Matrix: 63880005 Water

Collect Date: 16-JUL-02 15:10 Receive Date: 19-JUL-02 Client Collector:

			Circin							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	RMB 07/29/02	1318	189515	I
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	l				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	00.1	ug/L	l				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	l				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	l				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	l				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	BJ	2.17	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		2.00	0.390	1.00	ug/L	1				
Trichloroethylene		6.68	0.360	1.00	ug/L	ì				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene		ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	i				
Dichloropropylene										

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	RMB	07/29/02	1318	189515



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Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Client Sample ID:

AF6442

Project:

SAIC00101 SAIC031

Sample ID:

63880005

DL

Client ID:

Parameter Qu

Qualifier

Result

RL

Units

DF AnalystDate

Time Batch Method

The following Analytical Methods were performed

Method Description

Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	126%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	101%	(58%-139%)

Notes:

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- > Actual result is greater than amount reported
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- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
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Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

Page 1 of 2

Client Sample ID: AF6452
Sample ID: 63880019
Matrix: Water

Collect Date: 16-JUL-02 15:32 Receive Date: 19-JUL-02

Collector: Client

Project: SAIC00101 Client ID: SAIC031

Θ,	meetor.		Chefft							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	RMB 07/29/02	2010	189515	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	J				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	l				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	l				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	i				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	ļ				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	i				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	BJ	2.19	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		1.05	0.390	1.00	ug/L	1				
Trichloroethylene		13.8	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene					-					

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalRMB07/29/022010189515



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Client Sample ID: AF6452 Project: SAIC00101 Sample ID: 63880019 Client ID: SAIC031

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	122%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	103%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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.

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Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

Page 1 of 2

Client Sample ID: Sample ID:

ID: AF6462 63880016 Water Project: Client ID: SAIC00101 SAIC031

Matrix: Collect Date: Receive Date: Water 16-JUL-02 15:52

19-JUL-02 Client

Collector:

Parameter Qualifier Result RLDLUnits DF AnalystDate Time Batch Method Volatile Organics Federal 8260B Volatiles In Liquid Federal ug/L 1,1,1-Trichloroethane U ND 0.340 1.00 RMB 07/29/02 1845 189515 0.490 1.00 1.1.2.2-Tetrachloroethane U ND ug/L 1,1,2-Trichloroethane U ND 0.440 1.00 ug/L 0.410 1.00 ug/L 11 ND 1.1-Dichloroethane 1 0.410 1.00 ug/L 1,1-Dichloroethylene U ND 1.2-Dichloroethane U ND 0.2901.00 ug/L 0.630 2.00 ug/L 1,2-Dichloroethylene (total) 2.06 1,2-Dichloropropane U ND 0.250 1.00 ug/L 2-Butanone U ND 2.31 5.00 ug/L U 1.45 5.00 2-Hexanone ND ug/L 4-Methyl-2-pentanone U 1.78 5.00 ug/L ND 5.00 ug/L Acetone U ND 2.29 U ND 0.330 1.00 ug/L Benzene Bromodichloromethane U ND 0.380 1.00 ug/L U 0.500 1.00 Bromoform ND ug/L Bromomethane U ND 0.500 1.00 ug/L 1 Carbon disulfide U ND 1.91 5.00 ug/L Carbon tetrachloride 0.290 U ND 1.00 ug/L Chlorobenzene U ND 0.320 1.00 ug/L Chloroethane U ND 0.500 1.00 ug/L Chloroform П ND 0.360 1.00 ug/L Chloromethane U ND 0.500 1.00 ug/L Dibromochloromethane U ND 0.290 1.00 ug/L Ethylbenzene П ND 0.210 1.00 ug/L 5.00 Methylene chloride BJ 2.03 1.90 ug/L I Styrene U ND 0.250 1.00 ug/L Tetrachloroethylene 0.330 1.00 U ND ug/L 1 2.94 0.390 1.00 Toluene ug/L Trichloroethylene 31.2 0.360 1.00 ug/L U 1.00 Vinyl chloride ND 0.550 ug/L 1 Xylenes (total) U 0.830 3.00 ND ug/L 1 cis-1,3-Dichloropropylene U ND 0.300 1.00 ug/L 1 trans-1,3-U ND 0.290 1.00 ug/L 1 Dichloropropylene

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalRMB07/29/021845189515



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Company: SAIC

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Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Client Sample ID:

AF6462

Project:

SAIC00101 SAIC031

Sample ID:

63880016

Client ID:

Analyst Comments

Parameter

Qualifier

Result

DL

Units

RL

DF AnalystDate

Time Batch Method

The following Analytical Methods were performed

Method Description

SW846 8260B

Surrogate recovery Test Recovery % Acceptable Limits Bromofluorobenzene 8260B Volatiles In Liquid Federal 127% (67% - 136%)Dibromofluoromethane 8260B Volatiles In Liquid Federal 106% (62% - 148%)8260B Volatiles In Liquid Federal 101% (58%-139%) Toluene-d8

Notes:

The Qualifiers in this report are defined as follows:

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- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Reviewed by

P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407) Phone (843) 556-8171 • Fax (843) 766-1178 • www.gel.com



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

SAIC00101

SAIC031

Project:

Client ID:

Page 1 of 2

Client Sample ID: AF6472 Sample ID: 63880013

Matrix: Water

Collect Date: 16-JUL-02 16:16
Receive Date: 19-JUL-02
Collector: Client

Client Qualifier Result Parameter RLUnits DF AnalystDate DLTime Batch Method Volatile Organics Federal 8260B Volatiles In Liquid Federal 1,1,1-Trichloroethane U ND 0.340 1.00 ug/L RMB 07/29/02 1714 189515 0.490 1.00 1.1.2.2-Tetrachloroethane U ND ug/L 1,1,2-Trichloroethane U ND 0.440 1.00 ug/L U 0.410 1.00 ug/L 1,1-Dichloroethane ND ı 0.410 1.00 1.1-Dichloroethylene U ND ug/L 1 1,2-Dichloroethane U ND 0.290 1.00 ug/L 1,2-Dichloroethylene (total) 0.630 2.00 ug/L 1.35 J 1,2-Dichloropropane U ND 0.250 1.00 ug/L l 2-Butanone U ND 2.31 5.00 ug/L 2-Hexanone H ND 1.45 5.00 ug/L U 4-Methyl-2-pentanone ND 1.78 5.00 ug/L Acetone U ND 2.29 5.00 ug/L Benzene U ND 0.330 1.00 ug/L Bromodichloromethane U ND 0.380 1.00 ug/L U Bromoform ND 0.500 1.00 ug/L Bromomethane U 0.500 1.00 ND ug/L Carbon disulfide U ND 1.91 5.00 ug/L Carbon tetrachloride U ND 0.290 1.00 ug/L Chlorobenzene U ND 0.320 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 0.360 Chloroform U 1.00 ND ug/L Chloromethane U ND 0.500 1.00 ug/L Dibromochloromethane U ND 0.290 1.00 ug/L U Ethylbenzene ND 0.210 1.00 ug/L ug/L Methylene chloride BJ 2.01 1.90 5.00 Styrene U ND 0.250 1.00 ug/L Tetrachloroethylene U ND 0.330 1.00 ug/L 1 0.390 ug/L Toluene 1.24 1.00 1 Trichloroethylene 2.85 0.360 1.00 ug/L U Vinyl chloride ND 0.550 1.00 ug/L Xylenes (total) U 3.00 ug/L ND 0.830 ł cis-1,3-Dichloropropylene U ND 0.300 1.00 ug/L U trans-1,3-0.290 ND 1.00 ug/L Dichloropropylene

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalRMB07/29/021714189515



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring of

Client Sample ID:

AF6472

Project:

SAIC00101

Sample ID:

63880013

Client ID:

SAIC031

Parameter

Qualifier

Result

DL

RL

Units

DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description **Analyst Comments**

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	122%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	104%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- > Actual result is greater than amount reported
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- Р The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

The above sample is reported on an "as received" basis.

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Certificate of Analysis

Company: SAIC

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Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 1 of 2

SAIC00101 SAIC031

Project: Client ID:

Report Date: January 21, 2003

Client Sample ID: AF6482
Sample ID: 63880015
Matrix: Water

Collect Date: 16-JUL-02 16:48 Receive Date: 19-JUL-02 Collector: Client

ě.			CHent							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	l	RMB 07/29/02	2 1813	189515	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	J	2.65	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	i				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone		7.33	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	i				
Chloroform	U	ND	0.360	1.00	ug/L	l				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	BJ	2.24	1.90	5.00	ug/L	i				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		6.96	0.390	1.00	ug/L	1				
Trichloroethylene		1.06	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
SW846 8260B	8260B Volatiles In Liquid Federal	RMB	07/29/02	1813	189515	



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring** of 2

Report Date: January 21, 2003

Client Sample ID:

AF6482

Project:

SAIC00101

Sample ID:

63880015

Client ID:

SAIC031

Parameter

Qualifier

Result

DL

RL

DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description **Analyst Comments**

Units

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	128%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	104%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	99%	(58%-139%)

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. Ŧ
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- Χ Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Report Date: January 21, 2003 Page 1 of 2

SAIC00101 SAIC031

Project: Client ID:

Client Sample ID: AF6492 Sample ID: 63880008 Matrix: Water

Collect Date:

16-JUL-02 17:45 Receive Date: 19-JUL-02 Client Collector:

~			Chem							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	00.1	ug/L	1	RMB 07/29/02	1445	189515	l
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	l				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total	l)	4.36	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	l				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	Ī				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	BJ	2.08	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		1.70	0.390	1.00	ug/L	1				
Trichloroethylene		79.1	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	l				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	i				
Dichloropropylene										

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	RMB	07/29/02	1445	189515



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Client Sample ID:

AF6492

Proiect:

SAIC00101

Sample ID:

63880008

Client ID:

SAIC031

Parameter

Qualifier

Result

DL

RL

Units

DF AnalystDate

Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	125%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

Notes

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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Certificate of Analysis

SAIC Company:

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring**

> Project: SAIC00101 SAIC031

Client ID:

Report Date: January 21, 2003

Page

1 of 2

AF6512 Client Sample ID: Sample ID: 63879011 Matrix: Water

Collect Date: 17-JUL-02 11:10 Receive Date: 19-JUL-02 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid Fe	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/26/02	0233	188990	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylenc (total)) U	ND	0.630	2.00	ug/L	l				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	ì				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	l				
Acetone		8.82	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	ŀ				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	- 1				
Bromomethane	U	ND	0.500	1.00	ug/L	!				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	- 1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		1.91	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

Prep Batch Method Description Analyst Date Time CDS1 SW846 8260B 8260B Volatiles In Liquid Federal 07/26/02 0233 188990



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Leslie Barbour Contact:

Project: **HAAF Long Term Monitoring**

- 2. of

Client Sample ID:

AF6512

Project:

SAIC00101 SAIC031

Sample ID:

63879011

Client ID:

Parameter

Qualifier

Result

DL

RL

Units

DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Analyst Comments Description Method

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits		
Bromofluorobenzene	8260B Volatiles In Liquid Federal	114%	(67%-136%)		
Dibromofluoromethane	8260B Volatiles In Liquid Federal	107%	(62% - 148%)		
Toluene-d8	8260B Volatiles In Liquid Federal	113%	(58%-139%)		

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range Ε
- Holding time exceeded Н
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. I
- The response between the confirmation column and the primary column is >40%D P
- Indicates the compound was analyzed for but not detected above the detection limit U
- Uncertain identification for gamma spectroscopy.
- Χ Lab-specific qualifier - must be fully described in case narrative and data summary package
- QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

SAIC00101

SAIC031

Project:

Client ID:

Page 1 of 2

Client Sample ID: AF6522 Sample ID: 63880001

Matrix: Water

Collect Date: 17-JUL-02 11:37
Receive Date: 19-JUL-02
Collector: Client

Oualifier Parameter Result DL RL Units AnalystDate Time Batch Method Volatile Organics Federal 8260B Volatiles In Liquid Federal U 0.340 1.00 1,1,1-Trichloroethane ND RMB 07/30/02 1230 189515 ug/L 1,1,2,2-Tetrachloroethane U ND 0.490 1.00 ug/L 1,1,2-Trichloroethane U ND 0.440 1.00 ug/L 1 1.1-Dichloroethane U ND 0.410 1.00 ug/L ug/L 1,1-Dichloroethylene U ND 0.410 1.00 1 1,2-Dichloroethane U ND 0.290 1.00 ug/L 1,2-Dichloroethylene (total) U ND 0.630 2.00 ug/L ug/L 1,2-Dichloropropane U ND 0.250 1.00 2-Butanone U ND 2.31 5.00 ug/L 2-Hexanone U ND 1.45 5.00 ug/L 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L Acetone U ND 2.29 5.00 ug/L П 0.330 Benzene ND 1.00 ug/L Bromodichloromethane U ND 0.380 1.00 ug/L Bromoform U ND 0.500 1.00 ug/L Bromomethane П ND 0.500 1.00 ug/L Carbon disulfide ug/L U ND 1.91 5.00 Carbon tetrachloride U ND 0.290 1.00 ug/L Chlorobenzene U ND 0.320 1.00 ug/L Chloroethane U ND 0.500 1.00 ug/L Chloroform U ND 0.360 1.00 ug/L Chloromethane U ND 0.500 1.00 ug/L Dibromochloromethane U ND 0.290 1.00 ug/L Ethylbenzene U ND 0.210 1.00 ug/L Methylene chloride U ND 1.90 5.00 ug/L Styrene U ND 0.250 1.00 ug/L Tetrachloroethylene U ND 0.330 1.00 ug/L Toluene ug/L 1.13 0.390 1.00 Trichloroethylene U ND 0.360 1.00 ug/L Vinyl chloride U ND 0.550 1.00 ug/L 1 Xylenes (total) U ND 0.830 3.00 ug/L 1 cis-1,3-Dichloropropylene U ND 0.300 1.00 ug/L 1 U trans-1,3-ND 0.290 1.00 ug/L 1 Dichloropropylene

The following Prep Methods were performed

 Method
 Description
 Analyst
 Date
 Time
 Prep Batch

 RMB
 07/30/02
 1230
 189515



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring**

Client Sample ID:

AF6522

Project:

SAIC00101 SAIC031

Sample ID:

Oualifier

63880001

Client ID:

Parameter

Result

DL.

RL Units DF AnalystDate Time Batch Method

SW846 8260B

8260B Volatiles In Liquid Federal

The following Analytical Methods were performed

Method **Analyst Comments** Description

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	127%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported <
- Actual result is greater than amount reported
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range
- Holding time exceeded Η
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. T
- Р The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- Χ Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

The above sample is reported on an "as received" basis.

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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Sample ID:

Matrix:

Client Sample ID:

Project:

HAAF Long Term Monitoring

AF6532

Project:

Client ID:

Report Date: January 21, 2003

SAIC00101

SAIC031

Page 1 of 2

63879014

Water

17-JUL-02 11:48

Collect Date: Receive Date: 19-JUL-02 Collector: Client

_			CHCIIC								
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Metho	d
Volatile Organics Federal											
8260B Volatiles In Liquid Fe	ederal										
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	i	CDS1 07/26/02	2 0358	188990	ŧ	
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1					
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1					
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	l					
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1					
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1					
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	t					
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1					
2-Butanone	U	ND	2.31	5.00	ug/L	1					
2-Hexanone	U	ND	1.45	5.00	ug/L	1					
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1					
Acetone	U	ND	2.29	5.00	ug/L	1					
Benzene	U	ND	0.330	1.00	ug/L	1					
Bromodichloromethane	U	ND	0.380	1.00	ug/L	i					
Bromoform	U	ND	0.500	1.00	ug/L	1					
Bromomethane	U	ND	0.500	1.00	ug/L	1					
Carbon disulfide	U	ND	1.91	5.00	ug/L	1					
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1					
Chlorobenzene	U	ND	0.320	1.00	ug/L	1					
Chloroethane	U	ND	0.500	1.00	ug/L	1					
Chloroform	U	ND	0.360	1.00	ug/L	1					
Chloromethane	U	ND	0.500	1.00	ug/L	1					
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1					
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Methylene chloride	U	ND	1.90	5.00	ug/L	1					
Styrene	U	ND	0.250	1.00	ug/L	1					
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1					
Toluene	J	0.739	0.390	1.00	ug/L	1					
Trichloroethylene	U	ND	0.360	1.00	ug/L	i					
Vinyl chloride	U	ND	0.550	1.00	ug/L	1					
Xylenes (total)	U	ND	0.830	3.00	ug/L	1					
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1					
trans-1,3-	U	ND	0.290	1.00	ug/L	1					
Dichloropropylene											

The following Prep Methods were performed

Method Description Analyst Date Time **Prep Batch** SW846 8260B 8260B Volatiles In Liquid Federal CDS1 188990 07/26/02 0358



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Certificate of Analysis

Company: SAIC

Address:

151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF Long Term Monitoring

Result

. .

age 2 of 2

Client Sample ID:

AF6532

Project: Client ID: SAIC00101 SAIC031

Sample ID:

63879014

Chem

Report Date: January 21, 2003

Parameter

Qualifier

DL

RL Units

DF AnalystDate

Time Batch Method

The following Analytical Methods were performed

Method

Description

Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	114%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	106%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	114%	(58%-139%)

Notes:

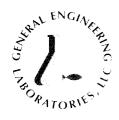
The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

The above sample is reported on an "as received" basis.

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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Report Date: January 21, 2003 Page 1 of 2

Client Sample ID: Sample ID: Matrix:

AF6542 63879017 Water

Project: Client ID:

SAIC00101 SAIC031

Collect Date: 17-JUL-02 12:05 Receive Date: 19-JUL-02 Collector: Client

			Chem								
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method	d
Volatile Organics Federal											
8260B Volatiles In Liquid Fe	ederal										
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/26/02	2 0524	188990	1	
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1					
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1					
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1					
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1					
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	1					
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1					
2-Butanone	U	ND	2.31	5.00	ug/L	1					
2-Hexanone	U	ND	1.45	5.00	ug/L	1					
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1					
Acetone	U	ND	2.29	5.00	ug/L	1					
Benzene	U	ND	0.330	1.00	ug/L	l					
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1					
Bromoform	U	ND	0.500	1.00	ug/L	1					
Bromomethane	U	ND	0.500	1.00	ug/L	1					
Carbon disulfide	U	ND	1.91	5.00	ug/L	1					
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1					
Chlorobenzene	U	ND	0.320	1.00	ug/L	1					
Chloroethane	U	ND	0.500	1.00	ug/L	1					
Chloroform	U	ND	0.360	1.00	ug/L	1					
Chloromethane	U	ND	0.500	1.00	ug/L	1					
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1					
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Methylene chloride	U	ND	1.90	5.00	ug/L	1					
Styrene	U	ND	0.250	1.00	ug/L	1					
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1					
Toluene	J	0.742	0.390	1.00	ug/L]					
Trichloroethylene		2.44	0.360	1.00	ug/L	1					
Vinyl chloride	U	ND	0.550	1.00	ug/L	1					
Xylenes (total)	U	ND	0.830	3.00	ug/L	1					
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	l					
trans-1,3-	U	ND	0.290	1.00	ug/L	l					
Dichloropropylene											

The following Prep Methods were performed

Method Description **Prep Batch** Analyst Date Time 8260B Volatiles In Liquid Federal CDS1 SW846 8260B 07/26/02 0524 188990



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Client Sample ID: Sample ID: AF6542

DL

Project: Client ID:

SAIC00101 SAIC031

AnalystDate

Parameter

Qualifier

63879017

RL Units

. 21110021

Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

Result

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	114%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	103%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	111%	(58%-139%)

Notes

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

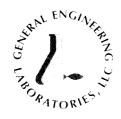
The above sample is reported on an "as received" basis.

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Paviawad by

P.O. Box 30712 • Charleston, SC 29417 • 2040 Savage Road (29407) Phone (843) 556-8171 • Fax (843) 766-1178 • www.gel.com



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Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 1 of 2

SAIC00101

SAIC031

Project:

Client ID:

Report Date: January 21, 2003

Client Sample ID: AF6552
Sample ID: 63879012
Matrix: Water

Collect Date: 17-JUL-02 12:21
Receive Date: 19-JUL-02
Collector: Client

Collector: Client

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Method

1 ai ainetei	Quantitiei	Result	DL	KL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	`ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L		CDS1 07/26/02	0301	188990	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	ì	020. 07/20/02	0.501	100770	•
1,1,2-Trichloroethane	U	ND ·	0.440	1.00	ug/L	i				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	i				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	i				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	i				
1,2-Dichloroethylene (total	l) U	ND	0.630	2.00	ug/L	i				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	i				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	i				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	i				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	l				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	ı				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene	J	0.472	0.390	1.00	ug/L	1				
Trichloroethylene		3.02	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalCDS107/26/020301188990



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring of

Client Sample ID:

AF6552

Project:

SAIC00101

SAIC031

Report Date: January 21, 2003

Sample ID:

63879012

Client ID:

Parameter

Qualifier

Result

DI.

RL

DF

AnalystDate

Time Batch Method

The following Analytical Methods were performed

Method Description **Analyst Comments**

Units

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	113%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	106%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	113%	(58%-139%)

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Н Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. J
- P The response between the confirmation column and the primary column is >40%D
- Indicates the compound was analyzed for but not detected above the detection limit U
- Uncertain identification for gamma spectroscopy. UI
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Page of 2

Report Date: January 21, 2003

SAIC00101

SAIC031

Project:

Client ID:

Client Sample ID: AF6554 Sample ID: 63879016 Matrix: Water

Collect Date: 17-JUL-02 12:21 Receive Date: 19-JUL-02

Collector: Client

Qualifier **Parameter** Result DL RL Units DF AnalystDate Time Batch Method Volatile Organics Federal 8260B Volatiles In Liquid Federal 1.1.1-Trichloroethane U ND 0.340 ug/L 1.00 CDS1 07/26/02 0455 188990 1.1.2,2-Tetrachloroethane U ND 0.490 1.00 ug/L 1,1.2-Trichloroethane U ND 0.440 1.00 ug/L 1 1,1-Dichloroethane U ND 0.410 ug/L 1.00 1 1,1-Dichloroethylene 1.1 ND 0.410 1.00 ug/L 1,2-Dichloroethane U ND 0.290 1.00 ug/L 1 1,2-Dichloroethylene (total) U ND 0.630 2.00 ug/L 1,2-Dichloropropane U ND 0.250 1.00 ug/L 2-Butanone U ND 2.31 5.00 ug/L 2-Hexanone U ND 1.45 5.00 ug/L 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L U Acetone ND 2.29 5.00 ug/L Benzene U ND 0.330 1.00 ug/L Bromodichloromethane U ND 0.380 1.00 ug/L Bromoform U ND 0.500 1.00 ug/L -1 Bromomethane U ND 0.500 1.00 ug/L Carbon disulfide П ND 1.91 5.00 ug/L Carbon tetrachloride U ND 0.290 1.00 ug/L 1 Chlorobenzene 13 ND 0.320 1.00 ug/L Chloroethane U ND 0.500 1.00 ug/L Chloroform U ND 0.360 1.00 ug/L Chloromethane U ND 0.500 1.00 ug/L Dibromochloromethane U ND 0.290 1.00 ug/L Ethylbenzene U ND 0.210 1.00 ug/L Methylene chloride U ND 1.90 5.00 ug/L Styrene U ND 0.250 1.00 ug/L Tetrachloroethylene U ND 0.330 1.00 ug/L Toluene 0.514 J 0.390 1.00 ug/L Trichloroethylene 0.360 3.03 1.00 ug/L U Vinyl chloride ND 0.550 1.00 ug/L 1 Xylenes (total) U ND 0.830 3.00 ug/L cis-1,3-Dichloropropylene U ND 0.300 1.00 ug/L ł trans-1,3-U ND 0.290 1.00 ug/L 1 Dichloropropylene

The following Prep Methods were performed

Method Description Analyst Date Time Prep Batch SW846 8260B 8260B Volatiles In Liquid Federal CDSI 07/26/02 0455 188990



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF Long Term Monitoring

of

Client Sample ID:

AF6554

Project:

SAIC00101

Sample ID:

63879016

Client ID:

SAIC031

Report Date: January 21, 2003

Parameter

Qualifier

Result

RLDL.

Units

DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description **Analyst Comments**

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	117%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	113%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- Holding time exceeded Η
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. T
- Р The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- Y QC Samples were not spiked with this compound.

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.

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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

SAIC00101

SAIC031

Project: Client ID: Page 1 of 2

Client Sample ID: AF6562
Sample ID: 63879013
Matrix: Water

Collect Date: 17-JUL-02 12:46 Receive Date: 10. HH, 02

Collector: 19-JUL-02 Client

Parameter Qualifier Result RLUnits DLDF AnalystDate Time Batch Method Volatile Organics Federal 8260B Volatiles In Liquid Federal 1.1.1-Trichloroethane U ND 0.340 1.00 CDS1 07/26/02 0330 188990 ug/L 1 1.1.2.2-Tetrachloroethane U ND 0.490 1.00 ug/L 1,1,2-Trichloroethane U ND 0.440 1.00 ug/L t U 1,1-Dichloroethane ND 0.410 1.00 ug/L 1 1,1-Dichloroethylene U ND 0.410 1.00 ug/L 1,2-Dichloroethane U ND 0.290 1.00 ug/L ŧ 1,2-Dichloroethylene (total) U ND 0.630 2.00 ug/L İ 1,2-Dichloropropane U ND 0.250 1.00 ug/L 2-Butanone U ND 2.31 5.00 ug/L 2-Hexanone U ND 1.45 5.00 ug/L 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L Acetone U ND 2.29 5.00 ug/L U Benzene ND 0.330 1.00 ug/L Bromodichloromethane U ND 0.380 1.00 ug/L Bromoform U 0.500 ND 1.00 ug/L Bromomethane U ND 0.500 1.00 ug/L Carbon disulfide U ND 1.91 5.00 ug/L Carbon tetrachloride U ND 0.290 ug/L 1.00 Chlorobenzene H ND 0.320 1.00 ug/L Chloroethane U ND 0.500 1.00 ug/L Chloroform U ND 0.360 1.00 ug/L Chloromethane U ND 0.500 1.00 ug/L Dibromochloromethane U ND 0.290 1.00 ug/L Ethylbenzene U ND 0.210 1.00 ug/L 1 Methylene chloride U ND 1.90 5.00 ug/L Styrene U ND 0.250 1.00 ug/L Tetrachloroethylene U ND 0.3301.00 ug/L 1 Toluene 1 0.428 0.390 1.00 ug/L Trichloroethylene U ND 0.360 1.00 ug/L ١ Vinyl chloride U ND 0.550 1.00 ug/L 1 Xylenes (total) U ND 0.830 3.00 ug/L cis-1,3-Dichloropropylene U ND 0.300 1.00 ug/L 1 trans-1,3-U ND 0.290 1.00 ug/L 1 Dichloropropylene

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalCDS107/26/020330188990



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF Long Term Monitoring

Sample ID:

AF6562

Project:

SAIC00101

Report Date: January 21, 2003

Client Sample ID:

63879013

Client ID:

SAIC031

Parameter

Qualifier

Result

DL

RL

Units

DF AnalystDate Time Batch Method

of

The following Analytical Methods were performed

Method

Description

Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	113%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	113%	(58%-139%)

The Qualifiers in this report are defined as follows:

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- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- Η Holding time exceeded
- T Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- The response between the confirmation column and the primary column is >40%D P
- IJ Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- Y QC Samples were not spiked with this compound.

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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring**

> Project: SAIC00101

SAIC031

Client ID:

Report Date: January 21, 2003

Page

1 of 2

Client Sample ID: AF6572 Sample ID: 63879010 Matrix: Water

Collect Date: Receive Date: 17-JUL-02 14:33

19-JUL-02 Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid Fo	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	t	CDS1 07/26/02	0204	188990	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				•
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	I				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	i				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

Method Description Time Analyst Date Prep Batch SW846 8260B 8260B Volatiles In Liquid Federal CDS1 07/26/02 0204 188990



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Certificate of Analysis

Company: SAIC

151 Lafavette Drive Address:

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring** of

Client Sample ID:

AF6572

DL

Project:

SAIC00101

Sample ID:

63879010

Client ID:

SAIC031

Parameter

Qualifier

RL

Units

DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description **Analyst Comments**

Result

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	115%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	113%	(58%-139%)

Notes:

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- Actual result is less than amount reported
- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. I
- Р The response between the confirmation column and the primary column is >40%D
- Indicates the compound was analyzed for but not detected above the detection limit H
- UI Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- Y QC Samples were not spiked with this compound.

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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Report Date: January 21, 2003

SAIC00101 SAIC031

Project: Client ID: 1 of 2

Client Sample ID: AF6582 Sample ID: 63879009 Matrix: Water

Collect Date: Receive Date: 17-JUL-02 15:03 19-JUL-02 Client

Collector:

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid Fe	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/26/02	0136	188990	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	J	2.62	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	ı				
Chloroform	U	ND	0.360	1.00	ug/L	i				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	. 0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	l				
Trichloroethylene	U	ND	0.360	00.1	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	I				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

Prep Batch Method Description Analyst Date Time SW846 8260B 8260B Volatiles In Liquid Federal CDS1 07/26/02 0136 188990



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF Long Term Monitoring

AF6582

...

Project: Client ID: SAIC00101

Report Date: January 21, 2003

Client Sample ID: Sample ID:

63879009

Client I

Parameter

Qualifier

Result

DI.

RL

Units

Analyst Comments

DF AnalystDate

SAIC031

Time Batch Method

of

The following Analytical Methods were performed

Method Description

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	113%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	104%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	112%	(58%-139%)

Notes:

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- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

SAIC00101 SAIC031

Project:

Client ID:

Page 1 of 2

Client Sample ID: AF6592
Sample ID: 63879008
Matrix: Water
Collect Date: 17-1111-07

Collect Date: 17-JUL-02 15:39
Receive Date: 19-JUL-02

Receive Date: 19-JUL-02
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid Fe	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	ı	CDS1 07/29/02	1316	188990	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				-
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total)) U	ND	0.630	2.00	ug/L	l				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	I				
2-Butanone		5.31	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	· U	ND	1.78	5.00	ug/L	1				
Acetone		19.4	2.29	5.00	ug/L	1				
Benzene	J	0.379	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	ì				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	i				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	00.1	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		1.23	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalCDS107/29/021316188990



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Certificate of Analysis

Company: SAIC

Address: 1

151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF Long Term Monitoring

age 2 of 2

Client Sample ID:

AF6592 63879008 Project: Client ID: SAIC00101 SAIC031

Report Date: January 21, 2003

Sample ID:

Qualifier

Result

DL

RL Units

DF AnalystDate

Time Batch Method

The following Analytical Methods were performed

Method

Parameter

Description

Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	114%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	108%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	111%	(58%-139%)

Notes

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- > Actual result is greater than amount reported
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- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
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Reviewed by

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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

> Project: SAIC00101 Client ID: SAIC031

Report Date: January 21, 2003

Page 1 of 2

Client Sample ID: AF6612 Sample ID: 63880020 Matrix: Water

Collect Date: 16-JUL-02 18:30

Receive Date: 19-JUL-02 Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid Fe	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	RMB 07/30/02	1400	189515	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total)) U	ND	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	J	3.08	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	l				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	J	4.86	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	l				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		3.41	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	I				
trans-1,3-	U	ND	0.290	1.00	ug/L	ì				
Dichloropropylene										

The following Prep Methods were performed

Method Description Analyst **Prep Batch** Date Time SW846 8260B 8260B Volatiles In Liquid Federal RMB 07/30/02 1400 189515



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Leslie Barbour Contact:

Project: HAAF Long Term Monitoring Report Date: January 21, 2003 of

Client Sample ID:

AF6612

Project:

SAIC00101

Sample ID:

63880020

DL

Client ID:

Units

SAIC031

Parameter

Qualifier

RL

DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Description **Analyst Comments** Method

Result

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	127%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	106%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
- Analyte found in the sample as well as the associated blank. В
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Holding time exceeded Н
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring** Report Date: January 21, 2003

SAIC00101

SAIC031

Project:

Client ID:

Page 1 of 2

Client Sample ID: AF6622 Sample ID: Matrix: 63882004 Water

Collect Date: 16-JUL-02 18:46 Receive Date: 19-JUL-02 Collector: Client

Volatile	Organics	Federal
voiauic	Organics	LCUCIAI

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/30/02	1130	189667	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total)	15.9	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone		16.7	2.29	5.00	ug/L	1				
Benzene	J	0.402	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	ı				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	l				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		4.08	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	i				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
SW846 8260B	8260B Volatiles In Liquid Federal	CDS1	07/30/02	1130	189667	



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Page of

Client Sample ID:

AF6622

DL

Project:

SAIC00101

Sample ID:

63882004

Client ID:

SAIC031

Parameter

Qualifier

Result

RL

Units

DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description **Analyst Comments**

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	117%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	109%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	119%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- > Actual result is greater than amount reported
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range Ε
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- Χ Lab-specific qualifier - must be fully described in case narrative and data summary package
- QC Samples were not spiked with this compound. Y

The above sample is reported on an "as received" basis.

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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring** Report Date: January 21, 2003

SAIC00101 SAIC031

Proiect: Client ID: Page 1 of 2

Client Sample ID: AF6632 Sample ID: Matrix: 63882006

Water

Collect Date: 16-ЈUL-02 19:10 Receive Date: 19-JUL-02 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/30/02	1227	189667	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total)	90.5	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	ł				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	l				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	l				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		3.07	0.390	1.00	ug/L	i				
Trichloroethylene		4.24	0.360	1.00	ug/L	1				
Vinyl chloride	J	0.745	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	i				
Dichloropropylene										

The following Prep Methods were performed

Method Description Analyst Date Time **Prep Batch** SW846 8260B 8260B Volatiles In Liquid Federal CDS1 07/30/02 1227 189667



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Report Date: January 21, 2003

Page of

Client Sample ID:

AF6632

Project:

SAIC00101

Sample ID:

63882006

Client ID:

SAIC031

Parameter

Oualifier

Result

DL

RL

Units

DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Description **Analyst Comments** Method

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits		
Bromofluorobenzene	8260B Volatiles In Liquid Federal	119%	(67%-136%)		
Dibromofluoromethane	8260B Volatiles In Liquid Federal	111%	(62%-148%)		
Toluene-d8	8260B Volatiles In Liquid Federal	117%	(58%-139%)		

Notes:

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- > Actual result is greater than amount reported
- Analyte found in the sample as well as the associated blank. В
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range Ε
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- The response between the confirmation column and the primary column is >40%D P
- U Indicates the compound was analyzed for but not detected above the detection limit
- Uncertain identification for gamma spectroscopy. UI
- X Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

The above sample is reported on an "as received" basis.

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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

Page 1 of 2

Client Sample ID: Sample ID: Matrix: AF6642 63882002 Water Project: Client ID:

SAIC00101 SAIC031

Collect Date: Receive Date: 16-JUL-02 19:26 19-JUL-02

Client

Collector:

Coulifier Page 1

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/30/02	1033	189667	Į
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total)	15.0	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	l				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		3.24	0.390	1.00	ug/L	1				
Trichloroethylene		76.0	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	i				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				

The following Prep Methods were performed

Dichloropropylene

Method	Description	Analyst	Date	Time	Prep Batch		
SW846 8260B	8260B Volatiles In Liquid Federal	 CDS1	07/30/02	1033	189667		



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring of

Report Date: January 21, 2003

Client Sample ID:

AF6642

Project:

Sample ID:

63882002

DL

Client ID:

SAIC00101 SAIC031

Parameter

Qualifier

RLUnits

DF AnalystDate

Time Batch Method

The following Analytical Methods were performed

Description Method

Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	116%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	107%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	114%	(58%-139%)

Result

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported
- Analyte found in the sample as well as the associated blank. В
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range Ε
- Holding time exceeded Н
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- The response between the confirmation column and the primary column is >40%D Р
- Indicates the compound was analyzed for but not detected above the detection limit H
- Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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.

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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

> SAIC00101 SAIC031 Project:

Client ID:

Report Date: January 21, 2003

Page

of 2

Client Sample ID: AF6652 Sample ID: Matrix: 63880003 Water

Collect Date: 17-JUL-02 08:55 Receive Date: 19-JUL-02 Collector: Client

-			Chem							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	RMB 07/30/02	2 1330	189515	Ł
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2 Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1.2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	1				
1,2 Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	NÐ	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	00.1	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		1.19	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	i				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

	F					
Method	Description	Analyst	Date	Time	Prep Batch	
SW846 8260B	8260B Volatiles In Liquid Federal	RMB	07/30/02	1330	189515	



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Client Sample ID: AF6652 Sample ID: 63880003 Project: SAIC00101 Client ID: SAIC031

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	133%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	104%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	102%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

- Willie plan



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 1 of 2

SAIC00101 SAIC031

Project:

Client ID:

Report Date: January 21, 2003

Client Sample ID: AF6662
Sample ID: 63880002
Matrix: Water
Collect Date: 177 HU 60

Collect Date: 17-JUL-02 09:09
Receive Date: 19-JUL-02
Collector: Client

Collector: Client

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Method

Volatile Organics Federal

	Qualifier	Kesuit	DL	KL	Units	DF	AnalystDate	1 11116	Daten	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	RMB 07/30/02	1259	189515	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total	l) U	ND	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	J	1.90	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		1.77	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene		ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalRMB07/30/021259189515



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Certificate of Analysis

Company: SAIC

151 Lafavette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring** of

Client Sample ID:

AF6662

Project:

SAIC00101

Sample ID:

63880002

Client ID:

SAIC031

Report Date: January 21, 2003

Parameter

Qualifier

Result

DL

RL.

Units

DE AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description **Analyst Comments**

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	125%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	99%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. 1
- The response between the confirmation column and the primary column is >40%D Р
- U Indicates the compound was analyzed for but not detected above the detection limit
- Uncertain identification for gamma spectroscopy. UI
- Lab-specific qualifier must be fully described in case narrative and data summary package Χ
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring**

1 of 2 Page

Report Date: January 21, 2003

Client Sample ID: AF6672 Project: SAIC00101 Client ID: SAIC031 Sample ID: 63879018

Matrix: Water

Collect Date: Receive Date: 17-JUL-02 09:32 19-JUL-02 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method	i
Volatile Organics Federal											
8260B Volatiles In Liquid Fo	ederal										
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/26/02	0552	188990	1	
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1					
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1					
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1					
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	l					
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	1					
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1					
2-Butanone	U	ND	2.31	5.00	ug/L	1					
2-Hexanone	U	ND	1.45	5.00	ug/L	1					
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1					
Acetone	U	ND	2.29	5.00	ug/L	1					
Benzene	U	ND	0.330	1.00	ug/L	1					
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1					
Bromoform	U	ND	0.500	1.00	ug/L	l					
Bromomethane	U	ND	0.500	1.00	ug/L	1					
Carbon disulfide	U	ND	1.91	5.00	ug/L	1					
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1					
Chlorobenzene	U	ND	0.320	1.00	ug/L	1					
Chloroethane	U	ND	0.500	1.00	ug/L	1					
Chloroform	U	ND	0.360	1.00	ug/L	1					
Chloromethane	U	ND	0.500	1.00	ug/L	1					
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1					
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Methylene chloride	U	ND	1.90	5.00	ug/L	1					
Styrene	U	ND	0.250	1.00	ug/L	1					
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1					
Toluene		1.77	0.390	1.00	ug/L	1					
Trichloroethylene	U	ND	0.360	1.00	ug/L	1					
Vinyl chloride	U	ND	0.550	1.00	ug/L	1					
Xylenes (total)	U	ND	0.830	3.00	ug/L	1					
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	l					
trans-1,3-	U	ND	0.290	1.00	ug/L	1					
Dichloropropylene					-						

The following Prep Methods were performed

Method Description Analyst Date Time **Prep Batch** SW846 8260B 8260B Volatiles In Liquid Federal CDS1 07/26/02 0552 188990



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Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Report Date: January 21, 2003

SAIC00101

SAIC031

Client Sample ID: AF6672 Project: Sample ID: 63879018 Client ID:

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	115%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	107%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	113%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Page 1 of 2

SAIC00101

SAIC031

Project:

Client ID:

Report Date: January 21, 2003

Client Sample ID: AF6674 Sample ID: 63879020 Matrix: Water

Collect Date: 17-JUL-02 09:32 Receive Date: 19-JUL-02

Collector: Client

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Method Volatile Organics Federal 8250B Volatiles In Liquid Federal 1.1,1-Trichloroethame U ND 0.340 1.00 ug/L 1 CDS1 07/26/02 0649 188990 1.1,1.2-Teitachloroethame U ND 0.440 1.00 ug/L 1 1,1-Dichloroethame U ND 0.440 1.00 ug/L 1 1,2-Dichloroethame U ND 0.630 2.00 ug/L 1 1,2-Dichloroethame U ND 0.630 2.00 ug/L 1 1,2-Dichloroethylene (total) U ND 0.630 2.00 ug/L 1 1,2-Dichloroethylene (total) U ND 0.250 1.00 ug/L 1 2-Betanone U ND 0.231 5.00 ug/L 1 2-Hexanone U ND 0.31 5.00 ug/L 1 4-Methyl-2-pentanone U ND 0.330 1.00 ug/L 1 4-Methyl-2-pentanone U ND 0.330 1.00 ug/L 1 Benzene U ND 0.330 1.00 ug/L 1 Benzene U ND 0.330 1.00 ug/L 1 Bromoform U ND 0.500 1.00 ug/L 1 Bromoform U ND 0.500 1.00 ug/L 1 Carbon disulfide U ND 0.500 1.00 ug/L 1 Carbon tetrachloride U ND 0.320 1.00 ug/L 1 Carbon tetrachloride U ND 0.300 1.00 ug/L 1 Chloroethane U ND 0.300 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloroethane U ND 0.5	Ç			Chem							
1,1,1-Trichloroethane	Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
1,1,1-Trichloroethane	Volatile Organics Federal										
1,1,2,2-Tetrachloroethane	8260B Volatiles In Liquid I	Federal									
1,1,2-Trichloroethane U ND 0.440 1.00 ug/L 1 1,1-Dichloroethane U ND 0.410 1.00 ug/L 1 1,1-Dichloroethylene U ND 0.410 1.00 ug/L 1 1,2-Dichloroethylene (total) U ND 0.630 2.00 ug/L 1 1,2-Dichloropropane U ND 0.250 1.00 ug/L 1 2-Butanone U ND 0.250 1.00 ug/L 1 2-Hexanone U ND 1.45 5.00 ug/L 1 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L 1 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L 1 4-Methyl-2-pentanone U ND 0.330 1.00 ug/L 1 Benzene U ND 0.330 1.00 ug/L 1 Bromodichloromethane U	1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/26/0	2 0649	188990	l
1,1,2-Trichloroethane U ND 0.440 1.00 ug/L 1 1,1-Dichloroethane U ND 0.410 1.00 ug/L 1 1,1-Dichloroethylene U ND 0.410 1.00 ug/L 1 1,2-Dichloroethylene (total) U ND 0.630 2.00 ug/L 1 1,2-Dichloropropane U ND 0.250 1.00 ug/L 1 2-Butanone U ND 0.250 1.00 ug/L 1 2-Hexanone U ND 1.45 5.00 ug/L 1 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L 1 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L 1 4-Methyl-2-pentanone U ND 0.330 1.00 ug/L 1 Benzene U ND 0.330 1.00 ug/L 1 Bromodichloromethane U	1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1-Dichloroethylene U ND 0.410 1.00 ug/L 1 1,2-Dichloroethylene (total) U ND 0.290 1.00 ug/L 1 1,2-Dichloroethylene (total) U ND 0.630 2.00 ug/L 1 1,2-Dichloropropane U ND 0.250 1.00 ug/L 1 2-Butanone U ND 2.31 5.00 ug/L 1 2-Hexanone U ND 1.45 5.00 ug/L 1 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L 1 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L 1 Acetone U ND 0.330 1.00 ug/L 1 Benzene U ND 0.380 1.00 ug/L 1 Bromodichloromethane U ND 0.500 1.00 ug/L 1 Carbon disulfide U ND<	1,1,2-Trichloroethane	U	ND	0.440	1.00		1				
1,2-Dichloroethane	1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethylene (total)	1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	į				
1,2-Dichloropropane U ND 0.250 1.00 ug/L 1 2-Butanone U ND 2.31 5.00 ug/L 1 2-Hexanone U ND 1.45 5.00 ug/L 1 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L 1 Acctone U ND 2.29 5.00 ug/L 1 Benzene U ND 0.330 1.00 ug/L 1 Bromodichloromethane U ND 0.380 1.00 ug/L 1 Bromoform U ND 0.500 1.00 ug/L 1 Bromofethane U ND 0.500 1.00 ug/L 1 Carbon disulfide U ND 0.290 1.00 ug/L 1 Carbon tetrachloride U ND 0.320 1.00 ug/L 1 Chlorobenzene U ND 0.500 1.	1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	l				
2-Butanone U ND 2.31 5.00 ug/L 1 2-Hexanone U ND 1.45 5.00 ug/L 1 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L 1 Acetone U ND 2.29 5.00 ug/L 1 Benzene U ND 0.330 1.00 ug/L 1 Bromodichloromethane U ND 0.380 1.00 ug/L 1 Bromoform U ND 0.500 1.00 ug/L 1 Bromomethane U ND 0.500 1.00 ug/L 1 Carbon disulfide U ND 0.500 1.00 ug/L 1 Carbon tetrachloride U ND 0.320 1.00 ug/L 1 Chlorobenzene U ND 0.320 1.00 ug/L 1 Chloroform U ND 0.500 1.00	1,2-Dichloroethylene (tota	l) U	ND	0.630	2.00	ug/L	1				
2-Hexanone U ND 1.45 5.00 ug/L I 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L I Acetone U ND 2.29 5.00 ug/L I Benzene U ND 0.330 1.00 ug/L I Bromodichloromethane U ND 0.380 1.00 ug/L I Bromoform U ND 0.500 1.00 ug/L I Bromomethane U ND 0.500 1.00 ug/L I Carbon disulfide U ND 0.500 1.00 ug/L I Carbon tetrachloride U ND 0.320 1.00 ug/L I Chlorobenzene U ND 0.320 1.00 ug/L I Chloroform U ND 0.360 1.00 ug/L I Chloromethane U ND 0.290 1.00 <td>1,2-Dichloropropane</td> <td>U</td> <td>ND</td> <td>0.250</td> <td>1.00</td> <td>ug/L</td> <td>1</td> <td></td> <td></td> <td></td> <td></td>	1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
4-Methyl-2-pentanone U ND 1.78 5.00 ug/L 1 Acetone U ND 2.29 5.00 ug/L 1 Benzene U ND 0.330 1.00 ug/L 1 Bromodichloromethane U ND 0.380 1.00 ug/L 1 Bromoform U ND 0.500 1.00 ug/L 1 Bromomethane U ND 0.500 1.00 ug/L 1 Carbon disulfide U ND 0.500 1.00 ug/L 1 Carbon tetrachloride U ND 0.290 1.00 ug/L 1 Chlorobenzene U ND 0.320 1.00 ug/L 1 Chloroform U ND 0.500 1.00 ug/L 1 Chloromethane U ND 0.500 1.00 ug/L 1 Dibromochloromethane U ND 0.290 1.00 ug/L 1 Ethylbenzene U ND 0.210	2-Butanone	U	ND	2.31	5.00	ug/L	1				
4-Methyl-2-pentanone U ND 1.78 5.00 ug/L 1 Acetone U ND 2.29 5.00 ug/L 1 Benzene U ND 0.330 1.00 ug/L 1 Bromodichloromethane U ND 0.380 1.00 ug/L 1 Bromoform U ND 0.500 1.00 ug/L 1 Bromomethane U ND 0.500 1.00 ug/L 1 Carbon disulfide U ND 0.500 1.00 ug/L 1 Carbon tetrachloride U ND 0.290 1.00 ug/L 1 Chlorobenzene U ND 0.320 1.00 ug/L 1 Chloroform U ND 0.500 1.00 ug/L 1 Chloromethane U ND 0.500 1.00 ug/L 1 Dibromochloromethane U ND 0.290 1.00 ug/L 1 Ethylbenzene U ND 0.210	2-Hexanone	U	ND	1.45	5.00	ug/L	1				
Acetone U ND 2.29 5.00 ug/L I Benzene U ND 0.330 1.00 ug/L I Bromodichloromethane U ND 0.380 1.00 ug/L I Bromoform U ND 0.500 1.00 ug/L I Bromomethane U ND 0.500 1.00 ug/L I Carbon disulfide U ND 1.91 5.00 ug/L I Carbon tetrachloride U ND 0.290 1.00 ug/L I Chlorobenzene U ND 0.320 1.00 ug/L I Chlorocthane U ND 0.500 1.00 ug/L I Chloroform U ND 0.360 1.00 ug/L I Chloromethane U ND 0.500 1.00 ug/L I Dibromochloromethane U ND 0.290 1.00	4-Methyl-2-pentanone	U	ND	1.78	5.00		1				
Bromodichloromethane U ND 0.380 1.00 ug/L I Bromoform U ND 0.500 1.00 ug/L I Bromomethane U ND 0.500 1.00 ug/L I Carbon disulfide U ND 1.91 5.00 ug/L I Carbon tetrachloride U ND 0.290 1.00 ug/L I Chlorobenzene U ND 0.320 1.00 ug/L I Chlorocthane U ND 0.500 1.00 ug/L I Chloroform U ND 0.360 1.00 ug/L I Chloromethane U ND 0.500 1.00 ug/L I Dibromochloromethane U ND 0.290 1.00 ug/L I Ethylbenzene U ND 0.210 1.00 ug/L I Methylene chloride U ND 1.90	Acetone	U	ND	2.29	5.00		1				
Bromodichloromethane U ND 0.380 1.00 ug/L 1 Bromoform U ND 0.500 1.00 ug/L 1 Bromomethane U ND 0.500 1.00 ug/L 1 Carbon disulfide U ND 1.91 5.00 ug/L 1 Carbon tetrachloride U ND 0.290 1.00 ug/L 1 Chlorobenzene U ND 0.320 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloromethane U ND 0.360 1.00 ug/L 1 Dibromochloromethane U ND 0.500 1.00 ug/L 1 Ethylbenzene U ND 0.210 1.00 ug/L 1 Methylene chloride U ND 1.90 5.00 ug/L 1	Benzene	U	ND	0.330	1.00	ug/L	1				
Bromomethane U ND 0.500 1.00 ug/L I Carbon disulfide U ND 1.91 5.00 ug/L I Carbon tetrachloride U ND 0.290 1.00 ug/L I Chlorobenzene U ND 0.320 1.00 ug/L I Chloroethane U ND 0.500 1.00 ug/L I Chloromethane U ND 0.360 1.00 ug/L I Dibromochloromethane U ND 0.500 1.00 ug/L I Ethylbenzene U ND 0.210 1.00 ug/L I Methylene chloride U ND 1.90 5.00 ug/L I	Bromodichloromethane	U	ND	0.380	1.00		1				
Carbon disulfide U ND 1.91 5.00 ug/L I Carbon tetrachloride U ND 0.290 1.00 ug/L I Chlorobenzene U ND 0.320 1.00 ug/L I Chloroethane U ND 0.500 1.00 ug/L I Chloroform U ND 0.360 1.00 ug/L I Chloromethane U ND 0.500 1.00 ug/L I Dibromochloromethane U ND 0.290 1.00 ug/L I Ethylbenzene U ND 0.210 1.00 ug/L I Methylene chloride U ND 1.90 5.00 ug/L I	Bromoform	U	ND	0.500	1.00	ug/L	1				
Carbon tetrachloride U ND 0.290 1.00 ug/L I Chlorobenzene U ND 0.320 1.00 ug/L I Chloroethane U ND 0.500 1.00 ug/L I Chloroform U ND 0.360 1.00 ug/L I Chloromethane U ND 0.500 1.00 ug/L I Dibromochloromethane U ND 0.290 1.00 ug/L I Ethylbenzene U ND 0.210 1.00 ug/L I Methylene chloride U ND 1.90 5.00 ug/L I	Bromomethane	U	ND	0.500	1.00	ug/L	1				
Chlorobenzene U ND 0.320 1.00 ug/L 1 Chloroethane U ND 0.500 1.00 ug/L 1 Chloroform U ND 0.360 1.00 ug/L 1 Chloromethane U ND 0.500 1.00 ug/L 1 Dibromochloromethane U ND 0.290 1.00 ug/L 1 Ethylbenzene U ND 0.210 1.00 ug/L 1 Methylene chloride U ND 1.90 5.00 ug/L 1	Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Chloroethane U ND 0.500 1.00 ug/L I Chloroform U ND 0.360 1.00 ug/L I Chloromethane U ND 0.500 1.00 ug/L I Dibromochloromethane U ND 0.290 1.00 ug/L I Ethylbenzene U ND 0.210 1.00 ug/L I Methylene chloride U ND 1.90 5.00 ug/L I	Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chloroform U ND 0.360 1.00 ug/L I Chloromethane U ND 0.500 1.00 ug/L I Dibromochloromethane U ND 0.290 1.00 ug/L I Ethylbenzene U ND 0.210 1.00 ug/L I Methylene chloride U ND 1.90 5.00 ug/L I	Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloromethane U ND 0.500 1.00 ug/L I Dibromochloromethane U ND 0.290 1.00 ug/L 1 Ethylbenzene U ND 0.210 1.00 ug/L 1 Methylene chloride U ND 1.90 5.00 ug/L I	Chloroethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane U ND 0.290 1.00 ug/L 1 Ethylbenzene U ND 0.210 1.00 ug/L 1 Methylene chloride U ND 1.90 5.00 ug/L 1	Chloroform	U	ND	0.360	1.00	ug/L	1				
Ethylbenzene U ND 0.210 1.00 ug/L 1 Methylene chloride U ND 1.90 5.00 ug/L I	Chloromethane	U	ND	0.500	1.00	ug/L	1				
Methylene chloride U ND 1.90 5.00 ug/L 1	Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
	Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
	Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene U ND 0.250 1.00 ug/L 1	Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene U ND 0.330 1.00 ug/L I	Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene 2.20 0.390 1.00 ug/L 1	Toluene		2.20	0.390		ug/L	1				
Trichloroethylene U ND 0.360 1.00 ug/L 1	Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride U ND 0.550 1.00 ug/L 1	Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total) U ND 0.830 3.00 ug/L 1	Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene U ND 0.300 1.00 ug/L 1	cis-1,3-Dichloropropylene	U					I				
trans-1,3- U ND 0.290 1.00 ug/L 1	trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene	Dichloropropylene										

The following Prep Methods were performed

Method Description Analyst Time **Prep Batch** Date CDS1 SW846 8260B 07/26/02 188990 8260B Volatiles In Liquid Federal 0649



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Certificate of Analysis

Company: SAIC

Address: 151 Lafavette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

of

Client Sample ID:

AF6674

Project:

SAIC00101

Report Date: January 21, 2003

Sample ID:

63879020

Client ID:

SAIC031

Parameter

Oualifier

Result

DL

RL

Units

DF AnalystDate Time Batch Method

2

The following Analytical Methods were performed

Description **Analyst Comments** Method

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	112%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	113%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
- Analyte found in the sample as well as the associated blank. В
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range Ε
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- The response between the confirmation column and the primary column is >40%D P
- U Indicates the compound was analyzed for but not detected above the detection limit
- Uncertain identification for gamma spectroscopy. UI
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

> SAIC00101 SAIC031 Project:

Client ID:

Report Date: January 21, 2003

1 of 2

Client Sample ID: AF6682 Sample ID: 63879015 Matrix: Water

Collect Date: 17-JUL-02 10:03 Receive Date: 19-JUL-02 Client Collector:

ě.	onector.		Chent							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	l	CDS1 07/26/0	2 0427	188990	l
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	l				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	l				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	J	4.57	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	ŀ				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene		1.92	0.390	1.00	ug/L	1				
Trichloroethylene		5.99	0.360	1.00	ug/L	i				
Vinyl chloride	U	ND	0.550	1.00	ug/L	i				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
SW846 8260B	8260B Volatiles In Liquid Federal	CDS1	07/26/02	0427	188990	



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Company: SAIC

151 Lafavette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Report Date: January 21, 2003 of 2

Client Sample ID:

AF6682

Project:

DF

SAIC00101

Sample ID:

63879015

DL

Client ID:

SAIC031

Parameter

Qualifier

RL.

Units

AnalystDate

Time Batch Method

The following Analytical Methods were performed

Description **Analyst Comments** Method

Result

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	114%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	107%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	112%	(58%-139%)

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. I
- Þ The response between the confirmation column and the primary column is >40%D
- Indicates the compound was analyzed for but not detected above the detection limit U
- Ш Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- QC Samples were not spiked with this compound. Y

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 General Engineering Laboratories, LLC standard operating precedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

SAIC Company:

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring**

> SAIC00101 SAIC031

Project: Client ID:

Report Date: January 21, 2003

Page

of 2

Client Sample ID: AF6692 Sample ID: 63879019 Matrix: Water

Collect Date: 17-JUL-02 10:30 Receive Date: 19-JUL-02 Collector: Client

Parameter Qualifier Result DLRLUnits DF AnalystDate Time Batch Method **Volatile Organics Federal** 8260B Volatiles In Liquid Federal 1,1,1-Trichloroethane U 0.340 1.00 CDS1 07/26/02 0621 188990 ND ug/L 1,1,2,2-Tetrachloroethane ND U 0.490 1.00 ug/L 1.1.2-Trichloroethane U ND 0.440 1.00 ug/L 1 1,1-Dichloroethane U ND 0.410 1.00 ug/L 1,1-Dichloroethylene U ND 0.410 1.00 ug/L U ND 0.290 1.00 ug/L 1,2-Dichloroethane 1,2-Dichloroethylene (total) U ND 0.630 2.00 ug/L 1,2-Dichloropropane U ND 0.250 1.00 ug/L 2-Butanone U ND 2.31 5.00 ug/L 2-Hexanone U ND 1.45 5.00 ug/L 4-Methyl-2-pentanone U ND 1.78 5.00 ug/L Acetone U ND 2.29 5.00 ug/L Benzene U ND 0.330 1.00 ug/L Bromodichloromethane U ND 0.380 1.00 ug/L 0.500 1.00 Bromoform U ND ug/L Bromomethane U ND 0.500 1.00 ug/L Carbon disulfide П ND 1.91 5.00 ug/L ug/L Carbon tetrachloride U ND 0.290 1.00 Chlorobenzene U ND 0.320 1.00 ug/L Chloroethane H 0.500 ND 1.00 ug/L Chloroform U ND 0.360 1.00 ug/L Chloromethane U ND 0.500 1.00 ug/L ND Dibromochloromethane H 0.290 1.00 ug/L Ethylbenzene U 1.00 ug/L ND 0.210 Methylene chloride U ND 1.90 5.00 ug/L Styrene U ND 0.250 1.00 ug/L Tetrachloroethylene U ND 0.330 1.00 ug/L Toluene 1.12 0.390 1.00 ug/L Trichloroethylene 4.26 0.360 1.00 ug/L Vinyl chloride U ND 0.550 1.00 ug/L 1 Xylenes (total) U ND 0.830 3.00 ug/L cis-1,3-Dichloropropylene U ND 0.300 1.00 ug/L 1 trans-1,3-U ND 0.290 1.00 ug/L Dichloropropylene

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	CDS1	07/26/02	0621	188990



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Company: SAIC

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Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Client Sample ID:

AF6692

Project:

SAIC00101 SAIC031

Sample ID:

63879019

Client ID:

Parameter

Oualifier

Result

DL

RL Units

DF AnalystDate

Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	111%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62% - 148%)
Toluene-d8	8260B Volatiles In Liquid Federal	113%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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.

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Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 1 of 2

Report Date: January 21, 2003

SAIC00101

SAIC031

Client Sample ID: AF6722 Sample ID: 63879007 Matrix: Water

Collect Date: 17-JUL-02 16:47 Receive Date: 19-H II -02

Receive Date:

19-JUL-02
Collector:

Client

Qualifier Result

DL RL Units DF AnalystDate Time Batch Method

Project:

Client ID:

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	`ederal									
1,1,1-Trichloroethane	U	ND	0.680	2.00	ug/L	2	CDS1 07/29/02	1413	188990	1
1.1.2,2-Tetrachloroethane	U	ND	0.980	2.00	ug/L	2				
1,1.2-Trichloroethane	U	ND	0.880	2.00	ug/L	2				
1,1-Dichloroethane		2.19	0.820	2.00	ug/L	2				
1,1-Dichloroethylene	J	1.11	0.820	2.00	ug/L	2				
1,2-Dichloroethane	U	ND	0.580	2.00	ug/L	2				
1,2-Dichloroethylene (total	1)	14.2	1.26	4.00	ug/L	2				
1,2-Dichloropropane	U	ND	0.500	2.00	ug/L	2				
2-Butanone	U	ND	4.62	10.0	ug/L	2				
2-Hexanone	U	ND	2.90	10.0	ug/L	2				
4-Methyl-2-pentanone	U	ND	3.56	10.0	ug/L	2				
Acetone	J	8.57	4.58	10.0	ug/L	2				
Benzene	U	ND	0.660	2.00	ug/L	2				
Bromodichloromethane	U	ND	0.760	2.00	ug/L	2				
Bromoform	U	ND	1.00	2.00	ug/L	2				
Bromomethane	U	ND	1.00	2.00	ug/L	2				
Carbon disulfide	U	ND	3.82	10.0	ug/L	2				
Carbon tetrachloride	U	ND	0.580	2.00	ug/L	2				
Chlorobenzene	U	ND	0.640	2.00	ug/L	2				
Chloroethane	U	ND	1.00	2.00	ug/L	2				
Chloroform	U	ND	0.720	2.00	ug/L	2				
Chloromethane	U	ND	1.00	2.00	ug/L	2				
Dibromochloromethane	U	ND	0.580	2.00	ug/L	2				
Ethylbenzene	U	ND	0.420	2.00	ug/L	2				
Methylene chloride	U	ND	3.80	10.0	ug/L	2				
Styrene	U	ND	0.500	2.00	ug/L	2				
Tetrachloroethylene	U	ND	0.660	2.00	ug/L	2				
Toluene	U	ND	0.780	2.00	ug/L	2				
Trichloroethylene		107	0.720	2.00	ug/L	2				
Vinyl chloride	U	ND	1.10	2.00	ug/L	2				
Xylenes (total)	U	ND	1.66	6.00	ug/L	2				
cis-1,3-Dichloropropylene	U	ND	0.600	2.00	ug/L	2				
trans-1,3-	U	ND	0.580	2.00	ug/L	2				
Dichloropropylene					-					

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalCDS107/29/021413188990



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Certificate of Analysis

Company: SAIC

151 Lafavette Drive Address:

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring of 2

Client Sample ID:

AF6722

Project:

SAIC00101 SAIC031

Sample ID:

63879007

DL

Client ID:

Parameter

Oualifier

Result

RL

Units

DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description **Analyst Comments**

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	119%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	109%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	112%	(58%-139%)

Notes:

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- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- The response between the confirmation column and the primary column is >40%D P
- U Indicates the compound was analyzed for but not detected above the detection limit
- Uncertain identification for gamma spectroscopy. UI
- Lab-specific qualifier must be fully described in case narrative and data summary package Χ
- Y QC Samples were not spiked with this compound.

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.

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Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 1 of 3

Report Date: January 21, 2003

SAIC00101

SAIC031

Project: Client ID:

Client Sample ID: AF6732
Sample ID: 63879006
Matrix: Water

Matrix: Water

Collect Date: 17-JUL-02 17:01
Receive Date: 19-JUL-02
Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/26/02	0010	188990	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	J	0.971	0.410	1.00	ug/L	1				
1,1-Dichloroethylene		2.29	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total)	25.6	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	i				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Trichloroethylene	Е	556	0.360	1.00	ug/L	ı				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	l				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	l				
Dichloropropylene										
1,1,1-Trichloroethane	U	ND	3.40	10.0	ug/L	10	CDS1 07/29/0	2 1345	188990	2
1,1,2,2-Tetrachloroethane	U	ND	4.90	10.0	ug/L	10				
1,1,2-Trichloroethane	U	ND	4.40	10.0	ug/L	10				
1,1-Dichloroethane	U	ND	4.10	10.0	ug/L	10				
1,1-Dichloroethylene	U	ND	4.10	10.0	ug/L	10				



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 3

Report Date: January 21, 2003

Client Sample ID: AF6732 Project: SAIC00101 Sample ID: 63879006 Client ID: SAIC031

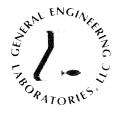
	oumpie 10.		03077000							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid .	Federal									
1,2-Dichloroethane	U	ND	2.90	10.0	ug/L	10				
1,2-Dichloroethylene (tota	al)	37.8	6.30	20.0	ug/L	10				
1,2-Dichloropropane	U	ND	2.50	10.0	ug/L	10				
2-Butanone	U	ND	23.1	50.0	ug/L	10				
2-Hexanone	U	ND	14.5	50.0	ug/L	10				
4-Methyl-2-pentanone	U	ND	17.8	50.0	ug/L	10				
Acetone	U	ND	22.9	50.0	ug/L	10				
Benzene	U	ND	3.30	10.0	ug/L	10				
Bromodichloromethane	U	ND	3.80	10.0	ug/L	10				
Bromoform	U	ND	5.00	10.0	ug/L	10				
Bromomethane	U	ND	5.00	10.0	ug/L	10				
Carbon disulfide	U	ND	19.1	50.0	ug/L	10				
Carbon tetrachloride	U	ND	2.90	10.0	ug/L	10				
Chlorobenzene	U	ND	3.20	10.0	ug/L	10				
Chloroethane	U	ND	5.00	10.0	ug/L	10				
Chloroform	U	ND	3.60	10.0	ug/L	10				
Chloromethane	U	ND	5.00	10.0	ug/L	10				
Dibromochloromethane	U	ND	2.90	10.0	ug/L	10				
Ethylbenzene	U	ND	2.10	10.0	ug/L	10				
Methylene chloride	U	ND	19.0	50.0	ug/L	10				
Styrene	U	ND	2.50	10.0	ug/L	10				
Tetrachloroethylene	U	ND	3.30	10.0	ug/L	10				
Toluene	U	ND	3.90	10.0	ug/L	10				
Trichloroethylene		746	3.60	10.0	ug/L	10				
Vinyl chloride	U	ND	5.50	10.0	ug/L	10				
Xylenes (total)	U	ND	8.30	30.0	ug/L	10				
cis-1,3-Dichloropropylen	e U	ND	3.00	10.0	ug/L	10				
trans-1,3-	U	ND	2.90	10.0	ug/L	10				
Dichloropropylene					Č					
The following Prep Metho	ods were perfo	rmed								
Method	Description			Analyst	Date	Time	Prep Batc	h		

Method	Description	Analyst	Date	Time	Prep Batc
SW846 8260B	8260B Volatiles In Liquid Federal	CDS1	07/26/02	0010	188990
SW846 8260B	8260B Volatiles In Liquid Federal	CDS1	07/29/02	1345	188990

The following Analytical Methods were performed

Method Description Analyst Comments

1 SW846 8260B 2 SW846 8260B



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 3 of 3

Report Date: January 21, 2003

Client Sample ID: AF6732 Proiect: SAIC00101 Sample ID: 63879006 Client ID: SAIC031

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Surrogate recovery	Test		Recovery	1 %	Acceptable	Limits				
Bromofluorobenzene	8260B Vo	olatiles In Liquid Federal	11	1%	(67%	-136%)				
Dibromofluoromethane	8260B Vo	olatiles In Liquid Federal	103	3%	(62%	-148%)				
Toluene-d8	8260B Vo	olatiles In Liquid Federal	110	0%	(58%	-139%)				
Bromofluorobenzene	8260B Vo	olatiles In Liquid Federal	11:	5%	(67%	-136%)				
Dibromofluoromethane	8260B Vo	olatiles In Liquid Federal	10	8%	(62%	-148%)				
Toluene-d8	8260B Vo	olatiles In Liquid Federal	11	0%	(58%	-139%)				

Notes:

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valli Wan



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Project: SAIC00101

SAIC031

Client ID:

Report Date: January 21, 2003

Page

of 2

Client Sample ID: AF6742 Sample ID: 63879004 Matrix: Water

Collect Date: 17-JUL-02 17:16
Receive Date: 19-JUL-02
Collector: Client

CC	meetor.		Chent							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/25/02	2 2313	188990	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	I				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	I				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	l				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	ŧ				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	i				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	l				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalCDS107/25/022313188990



AF6742

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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Leslie Barbour Contact:

Project: **HAAF Long Term Monitoring**

of

Report Date: January 21, 2003

Client Sample ID:

Sample ID:

Project: SAIC00101 Client ID: SAIC031 63879004

Qualifier **Parameter** Result DL RLUnits DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Description **Analyst Comments** Method

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	113%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	104%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	113%	(58%-139%)

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- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- Holding time exceeded Н
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- The response between the confirmation column and the primary column is >40%D
- Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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.

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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Report Date: January 21, 2003

SAIC00101

SAIC031

Project:

Client ID:

Page of 2

AF6752 Client Sample ID: 63879002 Sample ID: Matrix: Water Collect Date:

17-JUL-02 17:35 Receive Date: 19-JUL-02 Collector:

Client

Parameter Qualifier Result Units DLRLDF AnalystDate Time Batch Method Volatile Organics Federal 8260B Volatiles In Liquid Federal 1,1,1-Trichloroethane ND 0.340 1.00 CDS1 07/25/02 2216 188990 U ug/L ND 0.490 1.00 1,1,2,2-Tetrachloroethane U ug/L

1.1.2-Trichloroethane U ND 0.440 1.00 ug/L 1,1-Dichloroethane U ND 0.410 1.00 ug/L 1,1-Dichloroethylene U ND 0.410 1.00 ug/L U ND 0.290 1.00 ug/L 1,2-Dichloroethane 1 1,2-Dichloroethylene (total) U ND 0.630 2.00 ug/L 1,2-Dichloropropane ND 0.250 1.00 H ug/L 2-Butanone U ND 2.31 5.00 ug/L 2-Hexanone U ND 1.45 5.00 ug/L U ND 5.00 4-Methyl-2-pentanone 1.78 ug/L Acetone U ND 2.29 5.00 ug/L Benzene U ND 0.330 1.00 ug/L Bromodichloromethane U ND 0.380 1.00 ug/L U ND 0.500 1.00 ug/L Bromoform -1 Bromomethane U ND 0.500 1.00 ug/L ł Carbon disulfide U ND 1.91 5.00 ug/L 1 ug/L Carbon tetrachloride U ND 0.290 1.00 Chlorobenzene U ND 0.320 1.00 ug/L Chloroethane 11 ND 0.500 1.00 ug/L Chloroform U ND 0.360 1.00 ug/L Chloromethane 1.00 U ND 0.500 ug/L Dibromochloromethane U ND 0.290 1.00 ug/L Ethylbenzene U ND 0.210 1.00 ug/L Methylene chloride U ND 1.90 5.00 ug/L Styrene U ND 0.250 1.00 ug/L 1 Tetrachloroethylene U ND 0.330 1.00 ug/L U ND 0.390 1.00 Toluene ug/L Trichloroethylene U ND 0.360 1.00 ug/L 1 Vinyl chloride U ND 0.550 1.00 ug/L 1 Xylenes (total) U ND 0.830 3.00 ug/L 1 cis-1,3-Dichloropropylene U ND 0.300 1.00 ug/L 1

The following Prep Methods were performed

U

ND

trans-1,3-

Dichloropropylene

Time Method Description Analyst **Prep Batch** Date 8260B Volatiles In Liquid Federal SW846 8260B CDS1 07/25/02 2216 188990

0.290

1.00

ug/L

l



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF** Long Term Monitoring 2

Report Date: January 21, 2003

Client Sample ID:

AF6752

Project:

SAIC00101

Sample ID:

63879002

DL.

Client ID:

SAIC031

Parameter

Oualifier

Result

RL

Units

DF

AnalystDate

Time Batch Method

The following Analytical Methods were performed

Description **Analyst Comments** Method

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	109%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	112%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. I
- Р The response between the confirmation column and the primary column is >40%D
- Indicates the compound was analyzed for but not detected above the detection limit U
- Ш Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- Y QC Samples were not spiked with this compound.

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.

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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

Page 1 of 2

Client Sample ID:
Sample ID:
Matrix:
Collect Date:
Pagaina Data:

AF6762 63879001 Water 17-JUL-02 Project: Client ID:

SAIC00101 SAIC031

D	O1:6:	D14	Cheme	***	TT	DE	4 3 (75 (
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method	
Volatile Organics Federal											
8260B Volatiles In Liquid Fe	ederal										
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/25/02	2 2147	188990	1	
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1					
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1					
1.1-Dichloroethane	U	ND	0.410	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1					
1.2-Dichloroethane	U	ND	0.290	1.00	ug/L	1					
1,2-Dichloroethylene (total)) U	ND	0.630	2.00	ug/L	1					
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1					
2-Butanone	U	ND	2.31	5.00	ug/L	1					
2-Hexanone	U	ND	1.45	5.00	ug/L	1					
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1					
Acetone	U	ND	2.29	5.00	ug/L	1					
Benzene	U	ND	0.330	1.00	ug/L	1					
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1					
Bromoform	U	ND	0.500	1.00	ug/L	1					
Bromomethane	U	ND	0.500	1.00	ug/L	1					
Carbon disulfide	U	ND	1.91	5.00	ug/L	1					
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1					
Chlorobenzene	U	ND	0.320	1.00	ug/L	1					
Chloroethane	U	ND	0.500	1.00	ug/L	1					
Chloroform	U	ND	0.360	1.00	ug/L	1					
Chloromethane	U	ND	0.500	1.00	ug/L	- 1					
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1					
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Methylene chloride	U	ND	1.90	5.00	ug/L	1					
Styrene	U	ND	0.250	1.00	ug/L	1					
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	l					
Toluene	U	ND	0.390	1.00	ug/L	1					
Trichloroethylene	U	ND	0.360	1.00	ug/L	i					
Vinyl chloride	U	ND	0.550	1.00	ug/L	1					
Xylenes (total)	U	ND	0.830	3.00	ug/L	1					
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1					
trans-1,3-	U	ND	0.290	1.00	ug/L	l					
Dichloropropylene											

The following Prep Methods were performed

 Method
 Description
 Analyst
 Date
 Time
 Prep Batch

 CDS1
 07/25/02
 2147
 188990



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF Long Term Monitoring

AF6762

63879001

Project:

SAIC00101

Client Sample ID: Sample ID:

Client ID:

SAIC031

Report Date: January 21, 2003

Parameter

Qualifier

Result

DL

RL Units DF

AnalystDate

Time Batch Method

of

SW846 8260B

8260B Volatiles In Liquid Federal

The following Analytical Methods were performed

Method

Description

Analyst Comments

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	110%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	112%	(58%-139%)

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- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- Holding time exceeded Н
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. Ι
- The response between the confirmation column and the primary column is >40%D P
- Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package Χ
- QC Samples were not spiked with this compound.

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.

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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Report Date: January 21, 2003

SAIC00101 SAIC031

Project: Client ID: Page 1 of 2

AF6772 Client Sample ID: Sample ID: 63879005 Matrix: Water

Collect Date: 17-JUL-02 18:28

Receive Date: 19-JUL-02 Client Collector:

			CHOIL							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid Fe	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/25/02	2 2341	188990	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	l				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	Į				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	i				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	I				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	l				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed

Method Description **Prep Batch** Analyst Date Time 8260B Volatiles In Liquid Federal SW846 8260B CDS1 07/25/02 2341 188990



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

Page 2 of 2

Client Sample ID: Sample ID:

AF6772

DL

Project: Client ID: SAIC00101 SAIC031

AnalystDate

Parameter

Qualifier

63879005

Units

RL

DF A

Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

Result

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	113%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	103%	(62% - 148%)
Toluene-d8	8260B Volatiles In Liquid Federal	111%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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Company: SAIC

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Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Report Date: January 21, 2003

Page I of 2

Client Sample ID:
Sample ID:
Matrix:

63882007 Water

AF6782

Project: SAIC00101 Client ID: SAIC031

Client ID: SAIC031

Collect Date: Receive Date: Collector:

18-JUL-02 08:20 19-JUL-02

Client

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method	d
Volatile Organics Federal											
8260B Volatiles In Liquid Fe	ederal										
1,1,1-Trichloroethanc	U	ND	0.340	1.00	ug/L	1	CDS1 07/30/02	1255	189667	1	
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1					
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1					
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1					
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1					
1,2-Dichloroethylene (total)) U	ND	0.630	2.00	ug/L	1					
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1					
2-Butanone	U	ND	2.31	5.00	ug/L	1					
2-Hexanone	U	ND	1.45	5.00	ug/L	1					
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1					
Acetone	U	ND	2.29	5.00	ug/L	1					
Benzene	U	ND	0.330	1.00	ug/L	1					
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1					
Bromoform	U	ND	0.500	1.00	ug/L	1					
Bromomethane	U	ND	0.500	1.00	ug/L	1					
Carbon disulfide	U	ND	1.91	5.00	ug/L	1					
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1					
Chlorobenzene	U	ND	0.320	1.00	ug/L	1					
Chloroethane	U	ND	0.500	1.00	ug/L	1					
Chloroform	U	ND	0.360	1.00	ug/L	1					
Chloromethane	U	ND	0.500	1.00	ug/L	l					
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1					
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Methylene chloride	U	ND	1.90	5.00	ug/L	1					
Styrene	U	ND	0.250	1.00	ug/L	1					
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1					
Toluene	U	ND	0.390	1.00	ug/L	1					
Trichloroethylene	U	ND	0.360	1.00	ug/L	1					
Vinyl chloride	U	ND	0.550	1.00	ug/L	1					
Xylenes (total)	U	ND	0.830	3.00	ug/L	1					
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1					
trans-1,3-	U	ND	0.290	1.00	ug/L	1					
Dichloropropylene											

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalCDS107/30/021255189667



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Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Report Date: January 21, 2003

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 2 of 2

Client Sample ID: AF6782 Project: SAIC00101 Sample ID: 63882007 Client ID: SAIC031

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

I SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	117%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	109%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	118%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.

Valere hair



a Member of THE GEL GROUP, INC. Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Page 1 of 2

SAIC00101 SAIC031

Project: Client ID:

Report Date: January 21, 2003

Client Sample ID: AF6792 Sample ID: Matrix: 63882008 Water

Collect Date: 18-JUL-02 09:00 Receive Date: 19-JUL-02

Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid Fe	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/30/02	1324	189667	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total)) U	ND	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	l				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	1				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane	U	ND	0.500	1.00	ug/L	i				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene					-					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch	
SW846 8260B	8260B Volatiles In Liquid Federal	CDS1	07/30/02	1324	189667	



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Report Date: January 21, 2003

Client Sample ID:

AF6792

Project:

Sample ID:

63882008

DL

Client ID:

SAIC031

Parameter

Qualifier

Result

RL.

Units

DF AnalystDate

SAIC00101

Time Batch Method

of

The following Analytical Methods were performed

Method Description **Analyst Comments**

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	119%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	111%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	119%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
- Analyte found in the sample as well as the associated blank. В
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- Uncertain identification for gamma spectroscopy. UI
- X Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: **HAAF Long Term Monitoring**

> SAIC00101 SAIC031 TBH013 Client Sample ID: Project:

Report Date: January 21, 2003

Client ID:

Page

1 of 2

Sample ID: 63880004 Matrix: Water

Collect Date: 16-JUL-02 07:30 Receive Date: 19-JUL-02 Collector: Client

Parameter Qualifier Result RLUnits DL DF AnalystDate Time Batch Method Volatile Organics Federal 8260R Volatiles In Liquid Fede

8260B Volatiles In Liquid Fede	ral						
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1 RMB 07/29/02 1246 189515 1	
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1	
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1	
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1	
1,1-Dichloroethylene	U	ND	0.410	1 00	ug/L	1	
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	l	
1,2-Dichloroethylene (total)	U	ND	0.630	2.00	ug/L	l	
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	I	
2-Butanone	J	4.00	2.31	5.00	ug/L	l	
2-Hexanone	U	ND	1.45	5.00	ug/L	1	
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1	
Acetone		16.7	2.29	5.00	ug/L	1	
Benzene	U	ND	0.330	1.00	ug/L	1	
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1	
Bromoform	U	ND	0.500	1.00	ug/L	1	
Bromomethane	U	ND	0.500	1.00	ug/L	1	
Carbon disulfide	U	ND	1.91	5.00	ug/L	1	
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1	
Chlorobenzene	U	ND	0.320	1.00	ug/L	1	
Chloroethane	U	ND	0.500	1.00	ug/L	1	
Chloroform	U	ND	0.360	1.00	ug/L	1	
Chloromethane		2.15	0.500	1.00	ug/L	1	
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1	
Ethylbenzene	U	ND	0.210	1.00	ug/L	1	
Methylene chloride	BJ	2.09	1.90	5.00	ug/L	1	
Styrene	U	ND	0.250	1.00	ug/L	1	
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1	
Toluene	J	0.486	0.390	1.00	ug/L	I	
Trichloroethylene	U	ND	0.360	1.00	ug/L	1	
Vinyl chloride	U	ND	0.550	1.00	ug/L	1	
Xylenes (total)	U	ND	0.830	3.00	ug/L	1	
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1	
		1.150	0.000				

The following Prep Methods were performed

U

ND

trans-1,3-

Dichloropropylene

Method Description		Analyst	Date	Time	Prep Batch	
SW846 8260B	8260B Volatiles In Liquid Federal	RMB	07/29/02	1246	189515	

0.290

1.00

ug/L



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring Report Date: January 21, 2003 of

Client Sample ID:

TBH013

Project:

SAIC00101

Sample ID:

63880004

Client ID:

SAIC031

Parameter

Oualifier

Result

DL

RL

Units

DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Description **Analyst Comments** Method

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits		
Bromofluorobenzene	8260B Volatiles In Liquid Federal	129%	(67%-136%)		
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)		
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)		

Notes:

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
- В Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range \mathbf{E}_{-}
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- The response between the confirmation column and the primary column is >40%D Р
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF Long Term Monitoring

Page 1 of 2

SAIC00101 SAIC031

Project: Client ID:

Report Date: January 21, 2003

Client Sample ID: TBH014
Sample ID: 63879003
Matrix: Water

Collect Date: 17-JUL-02 07:40
Receive Date: 19-JUL-02
Collector: Client

	•		Chem							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	CDS1 07/25/02	2 2244	188990	l
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1				
1,2-Dichloroethylene (total) U	ND	0.630	2.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	J	3.14	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	l				
Acetone		15.3	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	1.00	ug/L	Į				
Bromomethane	U	ND	0.500	1.00	ug/L	1				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	1				
Chloromethane		1.17	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	i				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	1				
Xylenes (total)	U	ND	0.830	3.00	ug/L	1				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene					-					

The following Prep Methods were performed

MethodDescriptionAnalystDateTimePrep BatchSW846 8260B8260B Volatiles In Liquid FederalCDS107/25/022244188990



a Member of THE GEL GROUP, INC. Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project:

HAAF Long Term Monitoring

Client Sample ID:

Sample ID:

TBH014

63879003

DL

Project: Client ID:

DF

SAIC00101 SAIC031

AnalystDate

Report Date: January 21, 2003

of 2

Time Batch Method

Qualifier Result **Parameter**

The following Analytical Methods were performed Method

Description

Analyst Comments

Units

RL

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	111%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	107%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	111%	(58%-139%)

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported >
- Analyte found in the sample as well as the associated blank. В
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Holding time exceeded Η
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- The response between the confirmation column and the primary column is >40%D P
- Indicates the compound was analyzed for but not detected above the detection limit U
- UI Uncertain identification for gamma spectroscopy.
- Χ Lab-specific qualifier - must be fully described in case narrative and data summary package
- Y OC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



151 Laylayetta Delve, Oak Rkige, Tennessee 37831(865) 481-4600

CHAIN OF CUSTODY RECORD

COC NO .: HLTM15

	1 Leyfsysta Drive, Osk Ridge, Tennessee 37831(885) 481-4600 ROJECT NAME: Hunter LTM									REQU	ESTE	D PAI	RAM	ETEF	RS						1	ABORATORY N			ļ
PROJECT MAME. Hunter	L1101			\vdash	П	П	П	T	7		П	T	\top		П		T	1			Ge	eneral Engineer	ing Labo	ratory	
PROJECT NUMBER: 01-		00																		ä	20	ABORATORY A 040 Savage Ro harleston, SC 2	ad	:	
PROJECT MANAGER: F	atty Ston										1	-								s/ Vials:					
Sampler (Signature)	1 FI - 1 Z	inted Name)	p			ង	p				1						-			Botte	1	HONE NO: (84	3) 556-8	3171	
142: GU1		10////	170cm	阿斯	PAH	TCLP BTEX	TCLP Lead	202												No. of		OVA SCREENING	OBSERV. SPEC	ATIONS, CON	MMENTS, CTIONS
Sample ID	Date Collected	Time Collected	Matrix	=	12	F	E		+		╂╌┧		+-	╁	╁╌	\vdash	-	+	╁	Z	-		 		
AF 10762	7/17/02	1803	vote	4_	1	_	:	2			-	-	+;	-}-	+	-	-	-	+		-		 		
AF6752	7/17/02	1735	water	4	1	-	-	2	-	- -		-	1	-	+-	$\left - \right $	\dashv		+	N ₂			-		
TBHØ14	4/16/02	0740	Water	1	1 "	╀-		2	\vdash	+			+	+	+				+-	2			1		
AF6742	7/17/02	1716	Water	4-	┦-	igapha	-	2		_	-	-	+	+	+	+	\rightarrow	-	┥	2			+		
AF6772	7/11/02	1828	Wafa	_		1	<u> :</u>	Z										\dashv	+				 		
AF6732	7/17/02	1701	water		1_	1	L	2			1_			- -	 -	┼		+	-	2					
AF6722	7/17/02	1647	water			1_	_	2					1		_ _	4-	$\left - \right $	_	- -		<u> </u>				
AF6592	7/17/02	1539	Water				·	12			_		\dashv	1							2		_		
AF6582	7/17/02	1503	Water			_		2					_		_ _	1_		_			깈				
AF6572	4/17/02	1433	Water					2	<u>'</u>							1_		_	_ _		2				
AF6512	7/17/02	1110	water			1	1	2		<u> </u>					_			_	-		2		_		
AF6552	7/17/02	1221	Water				Ŀ	12	4								_		_		2				
AF6562	7/17/08	1246	wife			\perp	Ŀ	12	<u> </u>											ᆠᆚ	2	• 		100	
RELINGUISHED BY:	[] DE		EIVED BY:	Z.J.	2	۸		Da	te/Ti	me	тот	AL N	UMB	ER C	OF C	TAC	MNEF	IS:	90	<u> </u>	_	Cooler Tempe		4°C	
1000 LIK	7/4	18/02	Me !		tt	20	70	1/	19/	62	Coo	ler ID	:		,,,						-	FEDEX NUMB		- 0 -	00
COMPANY NAME:	10	300 COM	PANY NAME:				١	6	79	00				f	<u>//</u>							8200	109	380	900
RECEIVED BY:		te/Tigne RELI	NONISHED B					Da	te/Ti	me															
82060938	0908 7/	18/02					_																		ì
COMPANY NAME:	- /	'3cc	IPANY NAME	:																					
RELINQUISHED BY:		ate/Time REC	EIVED BY:					D	ate/T	ime															
COMPANY NAME:		con	MPANY NAME	 E:																					

page 2 of 4



COC NO .: HTTM/S **CHAIN OF CUSTODY RECORD** 151 Laylayette Drive, Oak Ridge, Termessee 37831(865) 481-4600 LABORATORY NAME: REQUESTED PARAMETERS PROJECT NAME: Hunter LTM General Engineering Laboratory PROJECT NUMBER: 01-1624-04-2301-200 LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29417 PROJECT MANAGER: Patty Stoll PHONE NO: (843) 656-8171 (Printed Name) Sampler (Signature) TCLP BTEX PATRICIA A. STOCK ŏ OBSERVATIONS, COMMENTS. AVO PAH SPECIAL INSTRUCTIONS SCREENING Date Collected Metrix 7/17/02 Water 1003 2 2 Water 2 7 Water 2 2 2 2 AF 6442 7/14/02 TOTAL NUMBER OF CONTAINERS: Cooler Temperature: Date/Time FEDEX NUMBER: Cooler ID: 820609 0900 1300 SAIC ri. Date/Time RECEIVED BY: Date/Time RELINQUISHED BY: 820609380908 7/18/02 COMPANY NAME: 1300 Date/Time RELINQUISHED BY: Date/Time RECEIVED BY:

COMPANY NAME:

COMPANY NAME:



Hage Boy 4

CHAIN OF CUSTODY RECORD

COC NO .: HITMIS

800 Oak Ridge Turnpike, Oak Rid			СН	All	N O	F CU	ISTC	DY	RE	COR	D					000 110	HLIM15		
PROJECT NAME: HAAF	DJECT NAME: HAAF Long Term Monitoring / DJECT NUMBER: 01-1624-04-2725-288-				- T				REQUI	ESTE	D PAI	RAMET	ERS	-1			<u> </u>	LABORATORY N	1
PROJECT NUMBER: 01	2:	25-200 - 301 - 2 <i>0</i> 0)														is:	LABORATORY A 2040 Savage Ra Charleston, SC	eod boe
Sampley (Signature)	- 140	(Printed Name	1														Bottles/ Vials:	PHONE NO: (84	3) 556-8171
Sample 1D	Date Collect		*	BTEX	PAH	Š											No. of	OVA SCREENING	OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
AF6342	7/16/0		1 water			Z								***			2		
AP6492	7/16/0			_	*******	2	<u> </u>									-	2		
AF6422	7/16/0					Z				_							2		
AF6362	7/16/0					2		1									2		
AF6372	7/16/0		·			2			_ 🕮					- 18			2		
AF6332	7/16/0					2	-	-	-#				(3000) 1000)	**	-		2		
AF647Z	7/16/0			1_		Z					-		_	(0) (0)			2		
AF6432	711610			-		2							- 28		<u> </u>		2		
AF6482	9/16/0	the state of the s				2		-	- 1			-			<u> </u>		2		
AF 6462	71/0/0			+		Z			- 23		<u> </u>			8.3	1	 	2		
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1AF6452	7/16/0					Z					***				::1		L_		100
RELINGUISHED BY	S/4/ 13	Ogto/Time	RECEIVED BY:	dr	711	~	7	19/	52			MBER	OF COI	VIAINE	RS:	96	,	Cooler Tempera	
COMPANY NAME:		•		20.		201				Coole	r ID:	7.	/1					FEDEX NUMBE	
COMPANY NAME:		1300	COMPANY NAME:					096	0			//	7					82660	9380708
RECEIVED BY: 820609380	908 3	Date/Time 4/18/02	RELINQUISHED BY	:			ם	ate/Tin	ne										
COMPANY NAME:		1300	COMPANY NAME:																
RELINQUISHED BY:		Date/Time	RECEIVED BY:		-		D	ate/Tin	ne										
COMPANY NAME:			COMPANY NAME:			44-							·						



COC NO .: HLTM15 800 Oak Rkige Turnpike, Oak Ridge, TN 37831 (423) 481-4600 CHAIN OF CUSTODY RECORD PROJECT NAME: HAAF Long Term Monitoring REQUESTED PARAMETERS LABORATORY NAME: General Engineering Laboratory PROJECT NUMBER: 01-1624-04-2725-200 2301-200 LABORATORY ADDRESS: 2040 Savage Raod PROJECT MANAGER: Patty Stoll Charleston, SC 29417 Sampler_(Signature) (Printed Name) PHONE NO: (843) 556-8171 PATRICIA A. STOLL OVA OBSERVATIONS, COMMENTS. PAH 8 Thre Collegted SCHENING SPECIAL INSTRUCTIONS Matrix AFG6012 7/14/02 water 1830 AF6382 7/16(02 2 Water 15-6642 7/16/02 wates F6312 7/10/02 0840 2 AF-6622 1846 7116/02 AF6392 7(16/02 1242 vater N AF6632 AF6782 7/16/02 1910 water 7/18/02 0820 water AF6792 7/14/02 0900 water Cooler Temperature: 4°C TOTAL NUMBER OF CONTAINERS: Date/Time Date/Time 7/18/02 Cooler ID: FEDEX NUMBER: 870609380908 SAIC 1300 RECEIVED BY: 820009380908 Date/Time 82090 7/18/02 RELINQUISHED BY: Date/Time COMPANY NAME: 1300

Date/Time

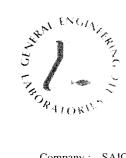
RELINQUISHED BY:

COMPANY NAME:

Date/Time

RECEIVED BY:

COMPANY NAME:



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF-USTs 25&26 Report Date: January 8, 2003

Page 1 of 3

Client Sample ID:

AF6812 72462002 Project: Client ID: SAIC04002 SAIC038

Sample ID: Matrix: Collect Date:

Water

18-DEC-02 17:05

19-DEC-02

Receive Date: Collector: Client

-			Circii								
Parameter	Qualifier	Result	DL	RL	Units	DF	Anal	ystDate	Time	Batch	Method
Volatile Organics Federal											
8260B Volatiles In Liquid F	ederal -										
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	JEB	12/31/02	1447	225040	1
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	I					
1,1,2-Trichloroethane	U	ND	0.440	00.1	ug/L	1					
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1					
1,1-Dichloroethylene		1.61	0.410	1.00	ug/L	1					
1,2-Dibromoethane	U	ND	0.250	1.00	ug/L	I					
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1					
1,2-Dichloroethylene (tota	l)	84.8	0.300	1.00	ug/L	1					
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	ì					
2-Butanone	\mathbf{U}	ND	2.31	5.00	ug/L	i					
2-Hexanone	U	ND	1.45	5.00	ug/L	I					
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	i					
Acetone	U	ND	2.29	5.00	ug/L	1					
Benzene	U	ND	0.330	1.00	ug/L	1					
Bromochloromethane	U	ND	0.500	1.00	ug/L	Į					
Bromodichloromethane	U	ND	0.380	1.00	ug/L	ł					
Bromoform	U	ND	0.500	1.00	ug/L	1					
Bromomethane	U	ND	0.500	1.00	ug/L	1					
Carbon disulfide	U	ND	1.91	5.00	ug/L	1					
Carbon tetrachloride	L1	ND	0.290	1.00	ug/L	1					
Chlorobenzene	U	ND	0.320	1.00	ug/L	l					
Chloroethane	U	ND	0.500	1.00	ug/L	1					
Chloroform	U	ND	0.360	1.00	ug/L	1					
Chloromethane	U	ND	0.500	1.00	ug/L	i					
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1					
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Methylene chloride	U	ND	1.90	5.00	ug/L	1					
Styrene	U	ND	0.250	1.00	ug/L	1					
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1					
Toluene	U	ND	0.390	1.00	ug/L	ŧ					
Trichloroethylene	E	484	0.360	1.00	ug/L	1					
Vinyl chloride	U	ND	0.550	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1					
trans-1,3-	U	ND	0.290	1.00	ug/L	1					
Dichloropropylene					-						
1,1,1-Trichloroethane	HU	ND	3.40	10.0	ug/L	10	JEB	01/02/03	3 1825	225040	2
1,1,2,2-Tetrachloroethane		ND	4.90	10.0	ug/L	10					
1,1,2-Trichloroethane	HU	ND	4.40	10.0	ug/L	10					



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF-USTs 25&26

Report Date: January 8, 2003

Page 2 of 3

Client Sample ID: AF6812 Project: SAIC04002 Sample ID: 72462002 Client ID: SAIC038

3	ampic iD.		72402002							
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid I	^r ederal									
1,1-Dichloroethane	HU	ND	4.10	10.0	ug/L	10				
1,1-Dichloroethylene	HU	ND	4.10	10.0	ug/L	10				
1,2-Dibromoethane	HU	ND	2.50	10.0	ug/L	10				
1,2-Dichloroethane	HU	ND	2.90	10.0	ug/L	10				
1,2-Dichloroethylene (tota	d) H	80.1	3.00	10.0	ug/L	10				
1,2-Dichloropropane	HU	ND	2.50	10.0	ug/L	10				
2-Butanone	HU	ND	23.1	50.0	ug/L	10				
2-Hexanone	HU	ND	14.5	50.0	ug/L	10				
4-Methyl-2-pentanone	HU	ND	17.8	50.0	ug/L	10				
Acetone	HU	ND	22.9	50.0	ug/L	10				
Benzene	HU	ND	3.30	10.0	ug/L	10				
Bromochloromethane	HU	ND	5.00	10.0	ug/L	10				
Bromodichloromethane	HU	ND	3.80	10.0	ug/L	10				
Bromoform	HU	ND	5.00	10.0	ug/L	10				
Bromomethane	HU	ND	5.00	10.0	ug/L	10				
Carbon disulfide	HU	ND	19.1	50.0	ug/L	10				
Carbon tetrachloride	HU	ND	2.90	10.0	ug/L	10				
Chlorobenzene	HU	ND	3.20	10.0	ug/L	10				
Chloroethane	HU	ND	5.00	10.0	ug/L	10				
Chloroform	HU	ND	3.60	10.0	ug/L	10				
Chloromethane	HU	ND	5.00	10.0	ug/L	10				
Dibromochloromethane	HU	ND	2.90	10.0	ug/L	10				
Ethylbenzene	HU	ND	2.10	10.0	ug/L	10				
Methylene chloride	HU	ND	19.0	50.0	ug/L	10				
Styrene	HU	ND	2.50	10.0	ug/L	10				
Tetrachloroethylene	HU	ND	3.30	10.0	ug/L	10				
Toluene	HU	ND	3.90	10.0	ug/L	10				
Trichloroethylene	Н	380	3.60	10.0	ug/L	10				
Vinyl chloride	HU	ND	5.50	10.0	ug/L	10				
Xylenes (total)	HU	ND	2.50	10.0	ug/L	10				
cis-1,3-Dichloropropylend	e HU	ND	3.00	10.0	ug/L	10				
trans-1,3-	HU	ND	2.90	10.0	ug/L	10				
Dichloropropylene					-					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	JEB	12/31/02	1447	225040
SW846 8260B	8260B Volatiles In Liquid Federal	JEB	01/02/03	1825	225040

The following Analytical Methods were performed

Method Description Analyst Comments



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF-USTs 25&26

Report Date: January 8, 2003

age 3 of 3

Client Sample ID: AF6812 Proiect: SAIC04002 Sample ID: 72462002 Client ID: SAIC038

Parameter Qualifier Result DL RL Units DF AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

1 SW846 8260B 2 SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	97%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	107%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	102%	(58%-139%)
Bromofluorobenzene	8260B Volatiles In Liquid Federal	96%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

Report Date: January 8, 2003

SAIC04002 SAIC038

Project:

Client ID:

Page

1 of 3

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

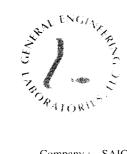
Project: HAAF-USTs 25&26

> Client Sample ID: AF6912 72462005

Sample ID: Matrix: Water

Collect Date: 18-DEC-02 13:00 Receive Date: 19-DEC-02 Collector:

Co	onector:		Client								
Parameter	Qualifier	Result	DL	RL	Units	DF	Analystl	Date	Time	Batch	Method
Volatile Organics Federal											
8260B Volatiles In Liquid F	ederal										
1.1.1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	JEB 13	2/31/02	1609	225040	1
1.1.2.2-Tetrachloroethane	Ũ	ND	0.490	1.00	ug/L	1				2230.0	•
1,1,2-Trichloroethane	Ü	ND	0.440	1.00	ug/L	1					
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	Ī					
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1					
1,2-Dibromoethane	U	ND	0.250	1.00	ug/L	1					
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	ī					
1,2-Dichloroethylene (total)	6.89	0.300	1.00	ug/L	l					
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	l					
2-Butanone	U	ND	2.31	5.00	ug/L	1					
2-Hexanone	U	ND	1.45	5.00	ug/L	1					
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1					
Acetone	U	ND	2.29	5.00	ug/L	1					
Benzene	U	ND	0.330	1.00	ug/L	1					
Bromochloromethane	U	ND	0.500	1.00	ug/L	l					
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1					
Bromoform	U	ND	0.500	1.00	ug/L	1					
Bromomethane	U	ND	0.500	1.00	ug/L	1					
Carbon disulfide	U	ND	1.91	5.00	ug/L	1					
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1					
Chlorobenzene	U	ND	0.320	1.00	ug/L	1					
Chloroethane	U	ND	0.500	1.00	ug/L	1					
Chloroform	U	ND	0.360	1.00	ug/L	1					
Chloromethane	U	ND	0.500	1.00	ug/L	1					
Dibromochloromethane	U	ND	0.290	1.00	ug/L	I					
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Methylene chloride	U	ND	1.90	5.00	ug/L	1					
Styrene	U	ND	0.250	1.00	ug/L	1					
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1					
Toluene	U	ND	0.390	1.00	ug/L	1					
Trichloroethylene	Е	162	0.360	1.00	ug/L	i					
Vinyl chloride	U	ND	0.550	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1					
trans-1,3-	U	ND	0.290	1.00	ug/L	1					
Dichloropropylene											
1,1,1-Trichloroethane	HU	ND	0.680	2.00	ug/L	2		1/02/03	3 1947	225040	2
1,1,2,2-Tetrachloroethane	HU	ND	0.980	2.00	ug/L	2					
1,1,2-Trichloroethane	HU	ND	0.880	2.00	ug/L	2					



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF-USTs 25&26 Report Date: January 8, 2003

Page 2 of 3

AF6912 Client Sample ID: Project: SAIC04002 Client ID: SAIC038 Sample ID: 72462005

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal									
1.1-Dichloroethane	HU	ND	0.820	2.00	ug/L	2				
1,1-Dichloroethylene	HU	ND	0.820	2.00	ug/L	2				
1,2-Dibromoethane	HU	ND	0.500	2.00	ug/L	2				
1,2-Dichloroethane	HU	ND	0.580	2.00	ug/L	2				
1,2-Dichloroethylene (total) H	6.20	0.600	2.00	ug/L	2				
1,2-Dichloropropane	HU	ND	0.500	2.00	ug/L	2				
2-Butanone	HU	ND	4.62	10.0	ug/L	2				
2-Hexanone	HU	ND	2.90	10.0	ug/L	2				
4-Methyl-2-pentanone	HU	ND	3.56	10.0	ug/L	2				
Acetone	HU	ND	4.58	10.0	ug/L	2				
Benzene	HU	ND	0.660	2.00	ug/L	2				
Bromochloromethane	HU	ND	1.00	2.00	ug/L	2				
Bromodichloromethane	HU	ND	0.760	2.00	ug/L	2				
Bromoform	HU	ND	1.00	2.00	ug/L	2				
Bromomethane	HU	ND	1.00	2.00	ug/L	2				
Carbon disulfide	HU	ND	3.82	10.0	ug/L	2				
Carbon tetrachloride	HU	ND	0.580	2.00	ug/L	2				
Chlorobenzene	HU	ND	0.640	2.00	ug/L	2				
Chloroethane	HU	ND	1.00	2.00	ug/L	2				
Chloroform	HU	ND	0.720	2.00	ug/L	2				
Chloromethane	HU	ND	1.00	2.00	ug/L	2				
Dibromochloromethane	HU	ND	0.580	2.00	ug/L	2				
Ethylbenzene	HU	ND	0.420	2.00	ug/L	2				
Methylene chloride	HU	ND	3.80	10.0	ug/L	2				
Styrene	HU	ND	0.500	2.00	ug/L	2				
Tetrachloroethylene	HU	ND	0.660	2.00	ug/L	2				
Toluene	HU	ND	0.780	2.00	ug/L	2				
Trichloroethylene	H	138	0.720	2.00	ug/L	2				
Vinyl chloride	HU	ND	1.10	2.00	ug/L	2				
Xylenes (total)	HU	ND	0.500	2.00	ug/L	2				
cis-1,3-Dichloropropylene	HU	ND	0.600	2.00	ug/L	2				
trans-1,3-	HU	ND	0.580	2.00	ug/L	2				
Dichloropropylene					Ü					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	JEB	12/31/02	1609	225040
SW846 8260B	8260B Volatiles In Liquid Federal	JEB	01/02/03	1947	225040

The following Analytical Methods were performed

Method Description **Analyst Comments**



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Certificate of Analysis

Company:

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF-USTs 25&26

Client Sample ID:

Sample ID:

AF6912

Proiect: Client ID: SAIC04002

Report Date: January 8, 2003

Page

SAIC038

Parameter

Qualifier

Result

72462005

DL

RL

Units

AnalystDate

Time Batch Method

of 3

The following Analytical Methods were performed

Analyst Comments Method Description

SW846 8260B SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	98%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	108%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	101%	(58%-139%)
Bromofluorobenzene	8260B Volatiles In Liquid Federal	96%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	110%	(62%-148%)
Tolucne-d8	8260B Volatiles In Liquid Federal	102%	(58%-139%)

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- Actual result is greater than amount reported
- Analyte found in the sample as well as the associated blank. В
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Н Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- The response between the confirmation column and the primary column is >40% D
- Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- QC Samples were not spiked with this compound. Y

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 General Engineering Laboratories, LLC standard/operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

Report Date: January 8, 2003

Page

1 of 3

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Leslie Barbour Contact:

Project: HAAF-USTs 25&26

> SAIC04002 SAIC038 AF6914 Project: Client Sample ID: Client ID: 72462004

Water

Sample ID: Matrix: Collect Date: Receive Date: 18-DEC-02 13:00 19-DEC-02 Client Collector:

Parameter	Qualifier	Result	DL	RL	Units	DF	Anal	ystDate	Time	Batch	Method
Volatile Organics Federal											
8260B Volatiles In Liquid F	ederal										
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	ı	JEB	12/31/02	1542	225040	l
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1					
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1					
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1					
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1					
1,2-Dibromoethane	U	ND	0.250	1.00	ug/L	1					
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	1					
1,2-Dichloroethylene (total	1)	6.49	0.300	1.00	ug/L	1					
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	j					
2-Butanone	U	ND	2.31	5.00	ug/L	1					
2-Hexanone	U	ND	1.45	5.00	ug/L	i					
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1					
Acetone	U	ND	2.29	5.00	ug/L	1					
Benzene	U	ND	0.330	1.00	ug/L	l					
Bromochloromethane	U	ND	0.500	1.00	ug/L	1					
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1					
Bromoform	U	ND	0.500	1.00	ug/L	1					
Bromomethane	U	ND	0.500	1.00	ug/L	1					
Carbon disulfide	U	ND	1.91	5.00	ug/L	1					
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	l					
Chlorobenzene	U	ND	0.320	1.00	ug/L	1					
Chloroethane	U	ND	0.500	1.00	ug/L	1					
Chloroform	U	ND	0.360	1.00	ug/L	l					
Chloromethane	U	ND	0.500	1.00	ug/L	ŧ					
Dibromochloromethane	U	ND	0.290	1.00	ug/L	ŧ					
Ethylbenzene	U	ND	0.210	1.00	ug/L	1					
Methylene chloride	U	ND	1.90	5.00	ug/L	l					
Styrene	U	ND	0.250	1.00	ug/L	1					
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1					
Toluene	U	ND	0.390	1.00	ug/L	I					
Trichloroethylene	E	158	0.360	1.00	ug/L	1					
Vinyl chloride	U	ND	0.550	1.00	ug/L	1					
Xylenes (total)	U	ND	0.250	1.00	ug/L	1					
cis-1,3-Dichloropropylene		ND	0.300	1.00	ug/L	i					
trans-1,3-	U	ND	0.290	1.00	ug/L	1					
Dichloropropylene											
1,1,1-Trichloroethane	HU	ND	0.680	2.00	ug/L	2		01/02/03	3 1920	225040	2
1,1,2,2-Tetrachloroethane	HU	ND	0.980	2.00	ug/L	2					
1,1,2-Trichloroethane	HU	ND	0.880	2.00	ug/L	2					



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Certificate of Analysis

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF-USTs 25&26

Report Date: January 8, 2003

Page 2 of 3

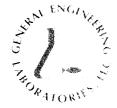
Client Sample ID: AF6914 Project: SAIC04002 Sample ID: 72462004 Client ID: SAIC038

5.	umpie ID.		12402004							
Parameter	Qualifier	Result	DL	RL	Units	DF .	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid F	ederal -									
1,1-Dichloroethane	HU	ND	0.820	2.00	ug/L	2				
1,1-Dichloroethylene	HU	ND	0.820	2.00	ug/L	2				
1,2-Dibromoethane	HU	ND	0.500	2.00	ug/L	2				
1,2-Dichloroethane	HU	ND	0.580	2.00	ug/L	2				
1,2-Dichloroethylene (tota	l) H	5.91	0.600	2.00	ug/L	2				
1,2-Dichloropropane	HU	ND	0.500	2.00	ug/L	2				
2-Butanone	HU	ND	4.62	10.0	ug/L	2				
2-Hexanone	HU	ND	2.90	10.0	ug/L	2				
4-Methyl-2-pentanone	HU	ND	3.56	10.0	ug/L	2				
Acetone	HU	ND	4.58	10.0	ug/L	2				
Benzene	HU	ND	0.660	2.00	ug/L	2				
Bromochloromethane	HU	ND	1.00	2.00	ug/L	2				
Bromodichloromethane	HU	ND	0.760	2.00	ug/L	2				
Bromoform	HU	ND	1.00	2.00	ug/L	2				
Bromomethane	HU	ND	1.00	2.00	ug/L	2				
Carbon disulfide	HU	ND	3.82	10.0	ug/L	2				
Carbon tetrachloride	HU	ND	0.580	2.00	ug/L	2				
Chlorobenzene	HU	ND	0.640	2.00	ug/L	2				
Chloroethane	HU	ND	1.00	2.00	ug/L	2				
Chloroform	HU	ND	0.720	2.00	ug/L	2				
Chloromethane	HU	ND	1.00	2.00	ug/L	2				
Dibromochloromethane	HU	ND	0.580	2.00	ug/L	2				
Ethylbenzene	HU	ND	0.420	2.00	ug/L	2				
Methylene chloride	HU	ND	3.80	10.0	սջ/L	2				
Styrene	HU	ND	0.500	2.00	ug/L	2				
Tetrachloroethylene	HU	ND	0.660	2.00	ug/L	2				
Toluene	HU	ND	0.780	2.00	ug/L	2				
Trichloroethylene	Н	141	0.720	2.00	ug/L	2				
Vinyl chloride	HU	ND	1.10	2.00	ug/L	2				
Xylenes (total)	HU	ND	0.500	2.00	ug/L	2				
cis-1,3-Dichloropropylene	: HU	ND	0.600	2.00	ug/L	2				
trans-1,3-	HU	ND	0.580	2.00	ug/L	2				
Dichloropropylene					-					
The following Prep Metho	de wara narfa	rmed								
Method I	-	ımcu		Analyst	Date	Time	Dwan Datal	L		

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	JEB	12/31/02	1542	225040
SW846 8260B	8260B Volatiles In Liquid Federal	JEB	01/02/03	1920	225040

The following Analytical Methods were performed

Method Description Analyst Comments



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Certificate of Analysis

Company:

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF-USTs 25&26

Client Sample ID:

72462004

Proiect:

SAIC04002

Sample ID:

AF6914

Client ID:

SAIC038

Report Date: January 8, 2003

Parameter

Qualifier

Result

DL

RL

Units

DF AnalystDate Time Batch Method

3

of

The following Analytical Methods were performed

Analyst Comments Method Description

SW846 8260B 2 SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	97%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	107%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	102%	(58%-139%)
Bromofluorobenzene	8260B Volatiles In Liquid Federal	96%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	108%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	101%	(58%-139%)

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported
- > Actual result is greater than amount reported
- Analyte found in the sample as well as the associated blank. В
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range E
- Η Holding time exceeded
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- The response between the confirmation column and the primary column is >40% D P
- Indicates the compound was analyzed for but not detected above the detection limit U
- UI Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

Company: SAIC

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Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Sample ID:

Matrix:

Project:

Bromomethane

Carbon disulfide

Dichloropropylene

HAAF-USTs 25&26

Client Sample ID:

HU

HU

ND

ND

AF7012

72462006

Water

Collect Date: 18-DEC-02 11:30 Report Date: January 8, 2003 Page 1 of

2

Project: Client ID:

SAIC04002 SAIC038

	Receive Date: Collector:		19-DEC-02 11 19-DEC-02 Client	:30					
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time Batch	Method
Volatile Organics Federal									
8260B Volatiles In Liquic	l Federal								
1,1,1-Trichloroethane	HU	ND	0.340	1.00	ug/L	1	JEB 01/02/03	2015 225040	1
1,1,2,2-Tetrachloroethan	e HU	ND	0.490	1.00	ug/L	1			
1,1,2-Trichloroethane	HU	ND	0.440	1.00	ug/L	1			
1,1-Dichloroethane	HU	ND	0.410	1.00	ug/L	I			
1,1-Dichloroethylene	HU	ND	0.410	1.00	ug/L	i			
1,2-Dibromoethane	HU	ND	0.250	1.00	ug/L	1			
1,2-Dichloroethane	HU	ND	0.290	1.00	ug/L	1			
1,2-Dichloroethylene (to	tal) HU	ND	0.300	1.00	ug/L	1			
1,2-Dichloropropane	HU	ND	0.250	1.00	ug/L	1			
2-Butanone	HU	ND	2.31	5.00	ug/L	1			
2-Hexanone	HU	ND	1.45	5.00	ug/L	1			
4-Methyl-2-pentanone	HU	ND	1.78	5.00	ug/L	1			
Acetone	HU	ND	2.29	5.00	ug/L	1			
Benzene	HU	ND	0.330	1.00	ug/L	1			
Bromochloromethane	HU	ND	0.500	1.00	ug/L	l			
Bromodichloromethane	HU	ND	0.380	1.00	ug/L	1			
Bromoform	HU	ND	0.500	1.00	ug/L	l			

0.500

1.91

1.00

5.00

ug/L

ug/L

Carbon tetrachloride	HU	ND	0.290	1.00	ug/L	1
Chlorobenzene	HU	ND	0.320	1.00	ug/L	l
Chloroethane	HU	ND	0.500	1.00	ug/L	1
Chloroform	HU	ND	0.360	1.00	ug/L	1
Chloromethane	HU	ND	0.500	1.00	ug/L	ŀ
Dibromochloromethane	HU	ND	0.290	1.00	ug/L	l
Ethylbenzene	HU	ND	0.210	1.00	ug/L	1
Methylene chloride	HU	ND	1.90	5.00	ug/L	1
Styrene	HU	ND	0.250	1.00	ug/L	1
Tetrachloroethylene	HU	ND	0.330	1.00	ug/L	1
Toluene	HU	ND	0.390	1.00	ug/L	1
Trichloroethylene	Н	2.02	0.360	1.00	ug/L	1
Vinyl chloride	HU	ND	0.550	00.1	ug/L	1
Xylenes (total)	HU	ND	0.250	1.00	ug/L	1
cis-1,3-Dichloropropylene	HU	ND	0.300	1.00	ug/L	1
trans-1,3-	HU	ND	0.290	1.00	ug/L	1

The following Prep Methods were performed

Method Description Analyst

Date

Time

į

Prep Batch



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Company:

151 Lafavette Drive Address:

Oak Ridge, Tennessee 37831

Report Date: January 8, 2003

2

of

Contact: Leslie Barbour

Project: HAAF-USTs 25&26

SAIC04002

Client Sample ID: AF7012

Proiect: SAIC038 Client ID: Sample ID: 72462006

Parameter Qualifier DLRL Units DF AnalystDate Time Batch Method

SW846 8260B 8260B Volatiles In Liquid Federal **JEB** 01/02/03 2015 225040

The following Analytical Methods were performed

Analyst Comments Method Description

SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	95%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	105%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported <
- Actual result is greater than amount reported
- Analyte found in the sample as well as the associated blank. В
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- Holding time exceeded H
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. I
- Р The response between the confirmation column and the primary column is >40%D
- Indicates the compound was analyzed for but not detected above the detection limit H
- UI Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package X
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

Report Date: January 8, 2003

SAIC04002

SAIC038

Project:

Client ID:

Page

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of

Company: SAIC

Address: 151 Lafayette Drive

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF-USTs 25&26

Client Sample ID: AF7112 Sample ID: 72462007

Matrix: Water

Collect Date: 18-DEC-02 10:15
Receive Date: 19-DEC-02
Collector: Client

Qualifier **Parameter** Result RL Units DL AnalystDate Time Batch Method **Volatile Organics Federal** 8260B Volatiles In Liquid Federal 1,1,1-Trichloroethane HUND 0.340 1.00 ug/L 01/02/03 2042 225040 1,1,2,2-Tetrachloroethane HU ND 0.490 1.00 ug/L 1,1,2-Trichloroethane HU 0.440 1.00 ug/L ND 1,1-Dichloroethane HU ND 0.410 1.00 ug/L ug/L 1.1-Dichloroethylene HJ0.535 0.410 1.00 1,2-Dibromoethane HU 0.250 ND 1.00 ug/L 1,2-Dichloroethane HUND 0.290 1.00 ug/L 1,2-Dichloroethylene (total) Н 36.5 0.300 1.00 ug/L 1,2-Dichloropropane HU 0.250 1.00 ND ug/L 2-Butanone HUND 2.31 5.00 ug/L 2-Hexanone HUND 1.45 5.00 ug/L 4-Methyl-2-pentanone HU5.00 ug/L ND 1.78 Acetone HUND 2.29 5.00 ug/L Benzene HU ND 0.330 1.00 ug/L Bromochloromethane HU0.500 1.00 ND ug/L Bromodichloromethane HUND 0.380 1.00 ug/L Bromoform HUND ug/L 0.500 1.00 Bromomethane HU ND 0.500 1.00 ug/L Carbon disulfide HU ND 1.91 5.00 ug/L Carbon tetrachloride HU ND 0.290 1.00 ug/L Chlorobenzene HUND 0.320 1.00 ug/L Chloroethane HU ND 0.500 1.00 ug/L Chloroform HUND 0.360 1.00 ug/L Chloromethane HUND 0.5001.00 ug/L Dibromochloromethane HU0.290 1.00 ND ug/L 0.210 ug/L Ethylbenzene HU ND 1.00 Methylene chloride HU ND 1.90 5.00 ug/L Styrene HI ND 0.250 1.00 ug/L 1 Tetrachloroethylene HU ug/L ND 0.330 1.00 1 Toluene HUND 0.390 1.00 ug/L Trichloroethylene Н 414 0.360 1.00 ug/L 1 Vinyl chloride ΗU ND 0.550 1.00 ug/L I Xylenes (total) HU ND 0.250 1.00 ug/L 1 cis-1,3-Dichloropropylene HU ND 0.300 1.00 ug/L i trans-1,3-HU ND 0.290 1.00 ug/L 1 Dichloropropylene

The following Prep Methods were performed

Method Description Analyst Date Time Prep Batch



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Company:

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact: Leslie Barbour

Project: HAAF-USTs 25&26

> AF7112 Project: SAIC04002

Report Date: January 8, 2003

of 2

Client Sample ID: Client ID: SAIC038 Sample ID: 72462007

Parameter Qualifier Result DL. RL Units DF AnalystDate Time Batch Method

SW846 8260B 8260B Volatiles In Liquid Federal JEB 01/02/03 2042 225040

The following Analytical Methods were performed

Analyst Comments Method Description

SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	97%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	107%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	101%	(58%-139%)

Notes:

The Qualifiers in this report are defined as follows:

- Actual result is less than amount reported <
- Actual result is greater than amount reported
- Analyte found in the sample as well as the associated blank. В
- BD Flag for results below the MDC or a flag for low tracer recovery.
- Concentration exceeds instrument calibration range Ε
- Holding time exceeded Н
- Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit. Ŧ
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- Lab-specific qualifier must be fully described in case narrative and data summary package Χ
- QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Valerie Davis.



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Certificate of Analysis

Company: SAIC

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Client Sample ID:

Contact: Leslie Barbour

Project: HAAF-USTs 25&26

> SAIC04002 AF7212 Project: Client ID: SAIC038

Report Date: January 8, 2003

Page 1 of 3

Sample ID: 72462003 Matrix: Water

Collect Date: Receive Date: 18-DEC-02 15:20 19-DEC-02 Collector: Client

Parameter	Qualifier	Result	DL	RL	Units	DF A	AnalystDate	Time Batc	h Method
Volatile Organics Federal									
8260B Volatiles In Liquid F	ederal								
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	l J	JEB 12/31/02	1514 22504) I
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1			
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	ı			
1,1-Dichloroethane		1.84	0.410	1.00	ug/L	1			
1,1-Dichloroethylene		4.91	0.410	1.00	ug/L	1			
1,2-Dibromoethane	U	ND	0.250	1.00	ug/L	1			
1,2-Dichloroethane		1.22	0.290	1.00	ug/L	1			
1,2-Dichloroethylene (total	1)	57.9	0.300	1.00	ug/L	1			
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1			
2-Butanone	U	ND	2.31	5.00	ug/L	Ī			
2-Hexanone	U	ND	1.45	5.00	ug/L	1			
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1			
Acetone	U	ND	2.29	5.00	ug/L	1			
Benzene	U	ND	0.330	1.00	ug/L	1			
Bromochloromethane	U	ND	0.500	1.00	ug/L	1			
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1			
Bromoform	U	ND	0.500	1.00	ug/L	i			
Bromomethane	U	ND	0.500	1.00	ug/L	i			
Carbon disulfide	U	ND	1.91	5.00	ug/L	1			
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1			
Chlorobenzene	U	ND	0.320	00.1	ug/L	1			
Chloroethane	U	ND	0.500	1.00	ug/L	1			
Chloroform	U	ND	0.360	1.00	ug/L	l			
Chloromethane	U	ND	0.500	1.00	ug/L	1			
Dibromochloromethane	U	ND	0.290	1.00	ug/L	l			
Ethylbenzene	U	ND	0.210	1.00	ug/L	į			
Methylene chloride	U	ND	1.90	5.00	ug/L	l			
Styrene	U	ND	0.250	1.00	ug/L	1			
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1			
Toluene	U	ND	0.390	1.00	ug/L	l			
Trichloroethylene	Е	1180	0.360	1.00	ug/L	1			
Vinyl chloride	U	ND	0.550	1.00	ug/L	1			
Xylenes (total)	U	ND	0.250	1.00	ug/L	I			
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1			
trans-1,3-	U	ND	0.290	1.00	ug/L	1			
Dichloropropylene									
1,1,1-Trichloroethane	HU	ND	8.50	25.0	ug/L		JEB 01/02/03	1853 22504	0 2
1,1,2,2-Tetrachloroethane	HU	ND	12.3	25.0	ug/L	25			
1,1,2-Trichloroethane	HU	ND	11.0	25.0	ug/L	25			



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Contact: Leslie Barbour

Project: HAAF-USTs 25&26 Report Date: January 8, 2003

Page 2 of 3

Client Sample ID: Project: SAIC04002 AF7212 SAIC038 Client ID: Sample ID: 72462003

	1									
Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
olatile Organics Federal										
8260B Volatiles In Liquid Fo	ederal									
1,1-Dichloroethane	HU	ND	10.3	25.0	ug/L	25				
1,1-Dichloroethylene	HU	ND	10.3	25.0	ug/L	25				
1,2-Dibromoethane	HU	ND	6.25	25.0	ug/L	25				
1,2-Dichloroethane	HU	ND	7.25	25.0	ug/L	25				
1,2-Dichloroethylene (total) H	57.0	7.50	25.0	ug/L	25				
1,2-Dichloropropane	HU	ND	6.25	25.0	ug/L	25				
2-Butanone	HU	ND	57.8	125	ug/L	25				
2-Hexanone	HU	ND	36.3	125	ug/L	25				
4-Methyl-2-pentanone	HU	ND	44.5	125	ug/L	25				
Acetone	HU	ND	57.3	125	ug/L	25				
Benzene	HU	ND	8.25	25.0	ug/L	25				
Bromochloromethane	HU	ND	12.5	25.0	ug/L	25				
Bromodichloromethane	HU	ND	9.50	25.0	ug/L	25				
Bromoform	HU	ND	12.5	25.0	ug/L	25				
Bromomethane	HU	ND	12.5	25.0	ug/L	25				
Carbon disulfide	HU	ND	47.8	125	ug/L	25				
Carbon tetrachloride	HU	ND	7.25	25.0	ug/L	25				
Chlorobenzene	HU	ND	8.00	25.0	ug/L	25				
Chloroethane	HU	ND	12.5	25.0	ug/L	25				
Chloroform	HU	ND	9.00	25.0	ug/L	25				
Chloromethane	HU	ND	12.5	25.0	ug/L	25				
Dibromochloromethane	HU	ND	7.25	25.0	ug/L	25				
Ethylbenzene	HU	ND	5.25	25.0	ug/L	25				
Methylene chloride	HU	ND	47.5	125	ug/L	25				
Styrene	HU	ND	6.25	25.0	ug/L	25				
Tetrachloroethylene	HU	ND	8.25	25.0	ug/L	25				
Toluene	HU	ND	9.75	25.0	ug/L	25				
Trichloroethylene	H	807	9.00	25.0	ug/L	25				
Vinyl chloride	HU	ND	13.8	25.0	ug/L	25				
Xylenes (total)	HU	ND	6.25	25.0	ug/L	25				
cis-1,3-Dichloropropylene	HU	ND	7.50	25.0	ug/L	25				
trans-1,3-	HU	ND	7.25	25.0	ug/L	25				
Dichloropropylene					-					

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8260B	8260B Volatiles In Liquid Federal	JEB	12/31/02	1514	225040
SW846 8260B	8260B Volatiles In Liquid Federal	JEB	01/02/03	1853	225040

The following Analytical Methods were performed

Method Description **Analyst Comments**



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Company: SAIC

Address: 151 Lafayette Drive

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Contact: Leslie Barbour

Project: HAAF-USTs 25&26

Report Date: January 8, 2003

Page 3 of 3

Client Sample ID:

AF7212

Project:

Units

SAIC04002 SAIC038

Sample ID:

Qualifier

72462003

DL

RL

Client ID:

DF

AnalystDate Time Batch Method

The following Analytical Methods were performed

Method Description Analyst Comments

1 SW846 8260B 2 SW846 8260B

Surrogate recovery	Test	Recovery %	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	95%	(67% -136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	103%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	100%	(58%-139%)
Bromofluorobenzene	8260B Volatiles In Liquid Federal	95%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	107%	(62% - 148%)
Toluene-d8	8260B Volatiles In Liquid Federal	102%	(58%-139%)

Notes

Parameter

The Qualifiers in this report are defined as follows:

- < Actual result is less than amount reported
- > Actual result is greater than amount reported
- B Analyte found in the sample as well as the associated blank.
- BD Flag for results below the MDC or a flag for low tracer recovery.
- E Concentration exceeds instrument calibration range
- H Holding time exceeded
- J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
- P The response between the confirmation column and the primary column is >40%D
- U Indicates the compound was analyzed for but not detected above the detection limit
- UI Uncertain identification for gamma spectroscopy.
- X Lab-specific qualifier must be fully described in case narrative and data summary package
- Y QC Samples were not spiked with this compound.

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 General Engineering Laboratories, LLC standard operating prosedures. Please direct any questions to your Project Manager, Valerie Davis.



a Member of THE GEL GROUP, INC. Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company: SAIC

Address:

151 Lafavette Drive

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF-USTs 25&26

Client Sample ID:

TBH016

Project:

1 of 2

Sample ID: Matrix: Collect Date:

72462001 Water

Client ID:

SAIC04002 SAIC038

Report Date: January 8, 2003

Page

Receive Date: Collector:

18-DEC-02 07:50 19-DEC-02

Client

Co	meetor.		Chent							
Parameter	Qualifier	Result	ÐL	RL	Units	DF	AnalystDate	Time	Batch	Method
Volatile Organics Federal										
8260B Volatiles In Liquid Fe	ederal									
1,1,1-Trichloroethane	U	ND	0.340	1.00	ug/L	1	JEB 12/31/02	2 1419	225040	l
1,1,2,2-Tetrachloroethane	U	ND	0.490	1.00	ug/L	1				
1,1,2-Trichloroethane	U	ND	0.440	1.00	ug/L	1				
1,1-Dichloroethane	U	ND	0.410	1.00	ug/L	1				
1,1-Dichloroethylene	U	ND	0.410	1.00	ug/L	1				
1.2-Dibromoethane	U	ND	0.250	1.00	ug/L	Į				
1,2-Dichloroethane	U	ND	0.290	1.00	ug/L	ł				
1,2-Dichloroethylene (total)) U	ND	0.300	1.00	ug/L	1				
1,2-Dichloropropane	U	ND	0.250	1.00	ug/L	1				
2-Butanone	U	ND	2.31	5.00	ug/L	1				
2-Hexanone	U	ND	1.45	5.00	ug/L	1				
4-Methyl-2-pentanone	U	ND	1.78	5.00	ug/L	1				
Acetone	U	ND	2.29	5.00	ug/L	1				
Benzene	U	ND	0.330	1.00	ug/L	ì				
Bromochloromethane	U	ND	. 0.500	00.1	ug/L	1				
Bromodichloromethane	U	ND	0.380	1.00	ug/L	1				
Bromoform	U	ND	0.500	00.1	ug/L	ŧ				
Bromomethane	U	ND	0.500	1.00	ug/L	ł				
Carbon disulfide	U	ND	1.91	5.00	ug/L	1				
Carbon tetrachloride	U	ND	0.290	1.00	ug/L	1				
Chlorobenzene	U	ND	0.320	1.00	ug/L	1				
Chloroethane	U	ND	0.500	1.00	ug/L	1				
Chloroform	U	ND	0.360	1.00	ug/L	I				
Chloromethane	U	ND	0.500	1.00	ug/L	1				
Dibromochloromethane	U	ND	0.290	1.00	ug/L	1				
Ethylbenzene	U	ND	0.210	1.00	ug/L	1				
Methylene chloride	U	ND	1.90	5.00	ug/L	1				
Styrene	U	ND	0.250	1.00	ug/L	1				
Tetrachloroethylene	U	ND	0.330	1.00	ug/L	1				
Toluene	U	ND	0.390	1.00	ug/L	1				
Trichloroethylene	U	ND	0.360	1.00	ug/L	1				
Vinyl chloride	U	ND	0.550	1.00	ug/L	I				
Xylenes (total)	U	ND	0.250	1.00	ug/L	I				
cis-1,3-Dichloropropylene	U	ND	0.300	1.00	ug/L	1				
trans-1,3-	U	ND	0.290	1.00	ug/L	1				
Dichloropropylene										

The following Prep Methods were performed



a Member of THE GEL GROUP, INC. Meeting Today's Needs with a Vision for Tomorrow

Certificate of Analysis

Company:

151 Lafayette Drive Address:

Oak Ridge, Tennessee 37831

Contact:

Leslie Barbour

Project:

HAAF-USTs 25&26

Client Sample ID: Sample ID:

TBH016 72462001

Project: Client ID: SAIC038

SAIC04002

Page

Report Date: January 8, 2003

Parameter

Qualifier

Result

DL

RL

Units

DF AnalystDate

Time Batch Method

of2

The following Prep Methods were performed

Method Description

8260B Volatiles In Liquid Federal

Analyst

JEB

Date 12/31/02 Time 1419 Prep Batch 225040

The following Analytical Methods were performed

Method

SW846 8260B

Description

Analyst Comments

1 SW846 8260B

Surrogate recovery	Test	Recovery%	Acceptable Limits
Bromofluorobenzene	8260B Volatiles In Liquid Federal	99%	(67%-136%)
Dibromofluoromethane	8260B Volatiles In Liquid Federal	109%	(62%-148%)
Toluene-d8	8260B Volatiles In Liquid Federal	103%	(58%-139%)

Notes:

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- Actual result is greater than amount reported >
- Analyte found in the sample as well as the associated blank. В
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800 Oak Ridge Turnpike, Oak Ridge, TN 37831 (423) 481-4600

CHAIN OF CUSTODY RECORD

COC NO .: H25Ø1Ø

PROJECT NAME: HAAF-USTs 25&26	REQUESTED PARAMETERS	LABORATORY NAME:
PROJECT NAME. HAAT-0013 20020		General Engineering Laboratory
PROJECT NUMBER: 01-1624-04-2301-200 PROJECT MANAGER: Patty Stoli		LABORATORY ADDRESS: 2040 Savage Road Charleston, SC 29407
Sampler (Signature) (Printed Name)		PHONE NO: (843) 556-8171
PATRICIA A. STOLL	NOC'S	OVA OBSERVATIONS, COMMENTS, SPECIAL INSTRUCTIONS
Sample ID Date Collected Time Collected Matrix	{- - 	2
TBHØ16 12/18/02 0750 water		3
AF6812 12/18/02 1705		2
AF7212 12/18/02 1520	2	2
AF6914 12/18/02 1300		2
AF6912 12/18/02 1300	2	
AF7\$12 12/18/02 1130	2	2
AF7112 12/18/02 1015 V	2	2
	 	
RELIMOUNSHED BY OIL Date/Time RECEIVED BY:	Date/Time TOTAL NUMBER OF CONTAINERS: /4	Cooler Temperature: 44
RELINQUISHED BY Date/Time RECEIVED BY: 12/19/22 //. Le Com	· /	FEDEX NUMBER:
COMPANY NAME: COMPANY NAME:	1515 001	NA
RECOVAD BY: Date/Time RELINQUISHED B	: Date/Time	
COMPANY NAME: // OO COMPANY NAME:		
RELINOUSHED BY: Date/Time RECEIVED BY:	Date/Time	
COMPANY NAME		