Petroleum Source Removal Areas of Concern Former Griffiss Air Force Base Rome, New York

## LONG-TERM MONITORING REPORT

## (Fall 2006)



Contract No. F41624-03-D-8601

Revision 0.0 August 2007



## LONG TERM MONITORING REPORT (FALL 2006)

## PETROLEUM SOURCE REMOVAL AREAS of CONCERN

**Prepared for:** 

Air Force Real Property Agency Former Griffiss Air Force Base Rome, New York

through

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#### **APPENDICES**

(All appendices are located on a CD in the back of this binder.)

- Appendix A Sampling Forms, Soil Disposal Documentation, ORC<sup>®</sup> Calculations
- Appendix B Validated Lab Data
- Appendix C Raw Lab Data

#### LIST OF ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
AFCEE	Air Force Center for Environmental Excellence
AOI	Area of Interest
ARAR	Applicable or Relevant and Appropriate Requirements
AST	aboveground storage tank
AVGAS	aviation gasoline
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, xylene
BTOIC	below top of inner casing
COC	contaminant of concern
CSM	Conceptual Site Model
c.y.	cubic yard
DO	dissolved oxygen
EBS	Environmental Baseline Survey
E&E	Ecology and Environmental, Inc.
ESI	Expanded Site Investigation
FID	flame ionization detector
FPM	FPM Group, Ltd.
FSP	field sampling plan
JP-4	jet propulsion fuel grade 4
LAW LTM	Law Engineering and Environmental Services, Inc. long-term monitoring
MOGAS	automotive gasoline
MSL	mean sea level
NYS	New York State
NYSBC	New York State Barge Canal
NYSDEC	New York State Department of Environmental Conservation
ORC®	Oxygen Release Compound <sup>®</sup>
ррт	parts per million
QAPP	Quality Assurance Project Plan
RI	Remedial Investigation

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SAP	sampling and analysis plan
SI	site investigation
SRA	source removal area of concern
STARS	Spill Technology and Remediation Series
SVOC	semi-volatile organic compound
TAGM	Technical and Administrative Guidance Memorandum
TPH	Total Petroleum Hydrocarbon
USEPA	United States Environmental Protection Agency
UST	underground storage tank
VOC	volatile organic compound
μg/L	micrograms per liter

#### **1 INTRODUCTION**

FPM Group Ltd. (FPM) has been contracted by the Air Force Center for Engineering and the Environment (AFCEE), to conduct a long-term monitoring (LTM) program for groundwater at the Tank Farms 1&3 Petroleum Source Removal Area of Concern (SRA) at the former Griffiss Air Force Base (AFB), New York. The LTM program was conducted in accordance with provisions of the Basic Contract No. F41624-03-D-8601 Delivery Order No. 0027. The purpose of the LTM program is to monitor the presence of contaminants of concern (COCs), assess the potential for migration of the COCs, statistically identify groundwater trends for the COCs, and establish an early warning system for assuring compliance with potential COC receptors.

Data evaluation and report preparation for the LTM program includes semi-annual summary updates and a more detailed annual report. The LTM program will also be reviewed periodically to revise sampling locations and/or sampling frequencies for optimal functioning. This semi-annual LTM report includes collection, analysis, and reporting of COCs for the following SRA from June 2002 through March 2006:

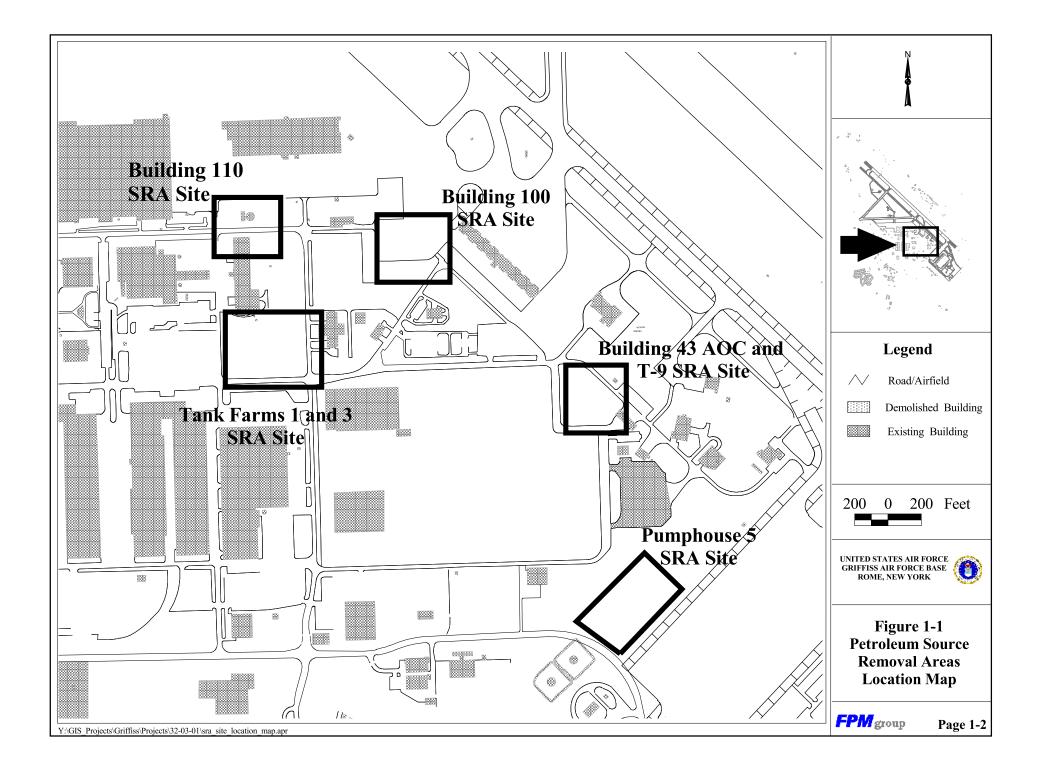
• Tank Farm 1 and 3 SRA SS-20 (New York State Department of Environmental Conservation [NYSDEC] Spill #9111733)

The locations of the Petroleum SRA can be reviewed in Figure 1-1. LTM was recommended by FPM and approved by NYSDEC by their approval of site-specific workplans and groundwater monitoring reports for Tank Farms 1 and 3 (FPM, November 2001).

As part of the performance based contract, it should be noted that the following sites were previously sampled under LTM, and were closed or proposed for closure.

- Building T-9 SRA SS-25 (NYSDEC Spill #9702173). Spill closed September 24, 2004
- Building 43 SRA ST-26 (NYSDEC Spill #9204543 and #9313076) proposed for closure, March 2005
- Building 110 SRA ST-36 (NYSDEC Spill #8603763). Spill closed September 29, 2004
- Building 771/Pumphouse 5 SRA ST-37 (NYSDEC Spill #8903144). Site closed October 20, 2004
- Building 100 SRA ST-51 (NYSDEC Spill #9704490). Spill closed September 29, 2004

Groundwater samples were collected from each of the sites listed and analyzed for the respective COCs as identified during previous investigations (e.g., volatile organic compounds [VOCs] and semivolatile organic compounds [SVOCs]). Both existing data and information from new sampling rounds are utilized for overall performance evaluation.



Groundwater samples were collected and analyzed at as many existing monitoring wells as possible to adequately locate and track the migration of the COC plume(s).

New wells were installed according to the protocol as described in the Field Sampling Plan (FSP) (FPM, August 2003). Reference is also made to the AFCEE Quality Assurance Project Plan (QAPP) Version 3.1 (AFCEE, 2001), prior to June 2006 and Version 4.0 (AFCEE, 2005) is used currently, with project-specific variances. The QAPP together with the FSP form the Sampling and Analysis Plan (SAP).

#### 1.1 Long-Term Monitoring Approach

#### 1.1.1 Long-Term Monitoring Background

To illustrate how this LTM Program will operate, the following highlights the overall objectives, components, and constraints of the groundwater LTM Program.

The objectives of LTM are:

- To continue refining the conceptual site model (CSM) for groundwater flow so that the predictions regarding the fate and transport of COCs are accurate;
- To establish an early warning monitoring system for the protection of potential receptors prior to completion of exposure pathways;
- To evaluate COC degradation due to remedial action or natural attenuation processes; and
- To collect data that support attainment of spill closure.

Typical components of a groundwater LTM system include:

- One or more upgradient well(s) representative of background conditions; and
- LTM wells that track the COC migration or degradation trend.

Constraints associated with a groundwater LTM system include:

- All monitoring wells must be screened in the same hydrogeologic unit as the COC plume or known/probable groundwater pathway from a potential source; and
- Downgradient LTM wells must be located to detect unexpected variations in groundwater quality as efficiently as possible (i.e., with respect to groundwater migration rates and downgradient flow direction).

Given the above objectives and constraints the design of an LTM system considers the following tasks:

- 1. Selecting water-level observation wells and water quality monitoring wells from existing monitoring wells and piezometers, or selecting locations for new wells, depending on the evaluation of existing data (i.e., well logs, water-level measurements, proximity to natural flow boundaries, trends and uncertainties in the existing data) and the specific intended and distinct role of that monitoring point;
- 2. Providing a statistical evaluation of water-level elevation data for groundwater flow direction, existing COC concentrations, and groundwater chemistry to predict long-term trends;
- 3. Identifying performance evaluation criteria (e.g., statistical tests), including appropriate analysis methods for evaluating data variations or closure attainment;
- 4. Identifying water quality sampling frequency at each monitoring point both for
  - a) understanding the trends of COCs and/or their indicator analytes, and
  - b) minimizing the costs and maximizing the benefits of the program;
- 5. Identifying physical and chemical parameters (e.g., transport and attenuation properties) for the COCs; and
- 6. Periodically assessing the LTM monitoring well network for addition of new monitoring wells or possible decommissioning of monitoring wells from the LTM program.

## 1.1.2 Purpose of LTM Program

Each site-specific LTM Work Plan has identified monitoring points that will best detect groundwater COCs that are known to exist at the Petroleum SRA, and track their transport over time to support a decision for either continued monitoring, remedial measures (i.e., free product recovery in those cases where free product is encountered), or spill closure. The LTM Program will use historic data and new information from annual and quarterly sampling rounds at specified existing and new monitoring wells.

#### 2 ENVIRONMENTAL SETTING

#### 2.1 PHYSIOGRAPHY AND TOPOGRAPHY

The former Griffiss AFB is located in the city of Rome in Oneida County, New York (refer to Figure 2-1). The former Base lies within the Mohawk Valley between the Appalachian plateau and the Adirondack Mountains. A rolling plateau northeast of the former Base reaches an elevation of 1300 feet above mean sea level (MSL). The New York State Barge Canal (NYSBC) and the Mohawk River valley south of the former Base lie below 430 feet above MSL. The topography across the former Base is relatively flat with elevations ranging from 435 feet above MSL in the southwest portion to 595 feet above MSL in the northwest portion of the former Base.

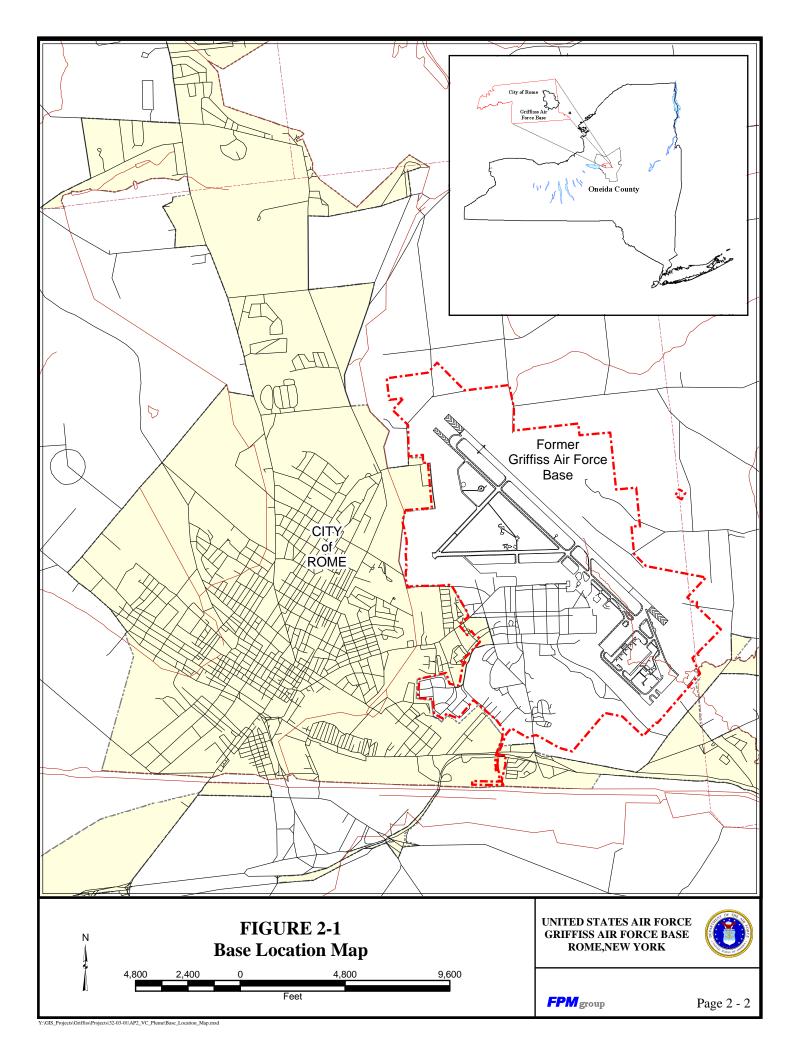
#### 2.2 GEOLOGY

Unconsolidated sediments at the former Griffiss AFB consist primarily of glacial till with minor quantities of clay and sand and significant quantities of silt and gravel. The thickness of these sediments range from 12 feet in the northeast portion to more than 130 feet in the southern portion of the former Base. The average thickness of the unconsolidated sediments is 25 to 50 feet in the central portion and 100 to 130 feet in the south and southwest portions of the former Base. The bedrock beneath the former AFB generally dips from the northeast to the southwest and consists of Utica Shale, a gray and black carbonaceous unit with a high/medium organic content (Remedial Investigation (RI), Law Engineering and Environmental Services, Inc. (LAW), December 1996).

#### 2.3 HYDROGEOLOGY

The shallow water table aquifer lies within the unconsolidated sediments, where depth to groundwater, during the December 1998 synoptic Base-wide water-level measurement of wells, ranged from just below the ground surface to approximately 57 feet below ground surface (bgs) in the southwest portion of the base and to 63 feet bgs in the northeast portion of the former Base (FPM, September 2000). Several surface water creeks act as discharge areas for shallow groundwater, and drainage culverts and sewers intercept surface water runoff.

A comprehensive description of regional and local geology, hydrogeology, lithology, and hydrology for the former Griffiss AFB was given in the RI (LAW, December 1996), and in the Supplemental Investigation (SI) prepared by Ecology and Environment, Inc. (E&E, July 1998). Detailed site descriptions and the hydrology for each Petroleum Source Removal Area are presented with each site-specific section.



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#### 2.4 CLIMATE

The former Griffiss AFB experiences a continental climate characterized by warm, humid, moderately wet summers and cold winters with moderately heavy snowfalls. The mean annual precipitation is 45.6 inches, which includes the mean annual snowfall of 107 inches. The annual evapotranspiration rate is 23 inches. The average temperature during the winter season is 20 degrees Fahrenheit; temperatures during the spring, summer, and fall vary from 31 to 81 degrees Fahrenheit. The prevailing winds are from the southwest, with an average wind speed of 5 knots.

The former Griffiss AFB is located in a region prone to acid precipitation; the annual average pH of precipitation recorded for 1992 at the three closest stations ranged from 4.25 to 4.28. Fluctuations in pH have an inverse correlation to precipitation, such that lower pH levels correlate with higher amounts of precipitation (LAW, December 1996).

#### 2.5 BIOLOGY

The former Griffiss AFB, covering 3,552 acres of property within the Erie-Ontario ecozone of the Great Lakes Physiographic Province, has been heavily disturbed from an ecological perspective. Although there are a few undisturbed communities within the former Base's boundary, the 1993 Inventory of Rare Plant Species and Significant Natural Communities identified six significant habitats of special concern occurring on the former Base (New York Natural Heritage Program, January 1994). None of these habitats occur adjacent to the Petroleum Source Removal Areas described in this report.

# 2.6 APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS IDENTIFICATION

At the Petroleum SRA to be monitored under the LTM Program, the Applicable or Relevant and Appropriate Requirements (ARARs) and other criteria and guidelines to be considered include the NYSDEC Spill Technology and Remediation Series (STARS), Technical and Administrative Guidance Memorandum (TAGM): Determination of Soil Cleanup Objectives and Cleanup Levels, January 1994, NYSDEC Interim Procedures for Inactivation of Petroleum-Impacted Sites, January 1997, and NYSDEC Ambient Water Quality Standards and Guidance Values, June 1998.

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#### 3 TANK FARMS 1 AND 3 SRA (IRP SITE SS-20, NYSDEC SPILL #9111733)

#### 3.1 SITE LOCATION AND HISTORY

The Tank Farms 1 and 3 SRA is located in the central portion of the former Griffiss AFB, as shown in Figure 1-1. The site is a grass-covered area that is located southeast of Building 112 and is bounded by Brooks Road to the south, Otis Street to the east, and Moody Street to the west. The SRA encompasses the former fuel storage facilities for the following products: aviation gasoline (AVGAS), jet propulsion fuel grade 4 (JP-4), automotive gasoline (MOGAS), diesel fuel, fuel oil, and deicing fluid. The Tank Farms 1 and 3 site layout is shown in Figure 3-1.

Tank Farm 1 is the former location of eight 25,000-gallon underground storage tanks (USTs). The USTs are numerically identified as UST 114-1 through UST 114-8. The tanks originally contained AVGAS, then were used for diesel fuel, MOGAS, and finally fuel oil. Other former facilities associated with Tank Farm 1 include one 50,000-gallon aboveground storage tank (AST) for deicing fluid (AST 6045), one underground 50,000-gallon deicing fluid tank (UST 5885), one pumphouse (Building 114), one pump pit, separator tanks, and one water separator pit. The pumphouse was connected to a railroad car unloading stand with three outlets used to off-load fuel from railroad cars into the tanks (Tetra Tech, September 1994; E&E, December 1997). Open NYSDEC Spill #9111733 is associated with former USTs 114-1 through 114-8.

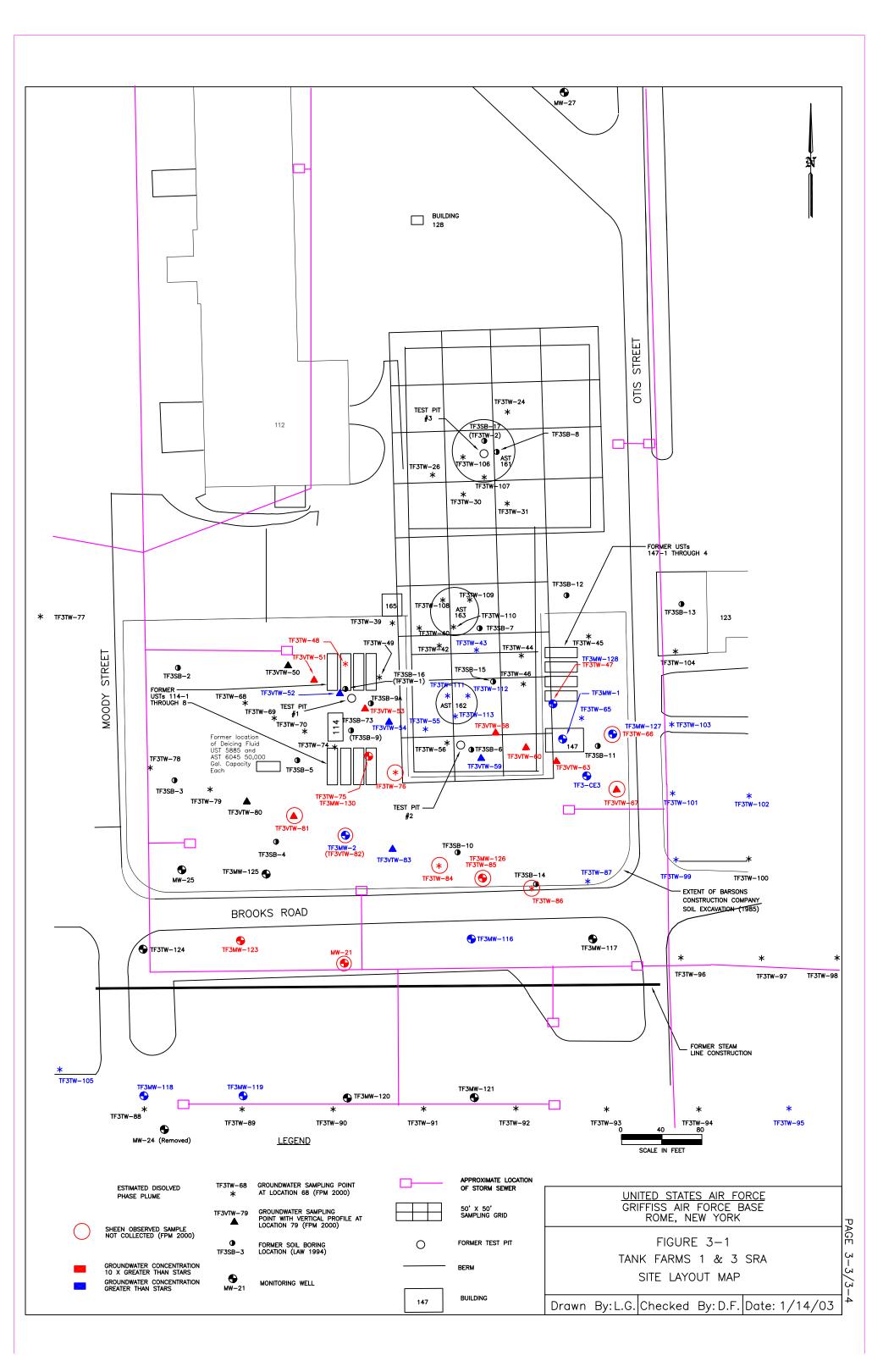
Tank Farm 3 is the former location of four 25,000-gallon USTs (UST 147-1 through -4) that contained JP-4. Other former facilities associated with Tank Farm 3 include two pumphouses (Buildings 147 and 165), one pump pit, separator tanks, one water separator pit, and three aboveground bulk fuel storage tanks (ASTs 161, 162, and 163). The former bulk fuel ASTs originally contained JP-4 but were later used to store fuel oil. Former AST 161 was 840,000 gallons in capacity and former ASTs 162 and 163 were both 420,000 gallons in capacity. Each bulk fuel AST was surrounded by a soil berm.

#### 3.2 DESCRIPTION OF PREVIOUS SAMPLING AND INVESTIGATIONS

In November 1981, Base Fuels verified that 2 to 3 gallons per day of JP-4 leaked from eight valves at Tank Farm 3 for an indefinite period (LAW, February 1995).

In the fall of 1982, investigative soil borings associated with the construction of a steam line were installed to the south of Brooks Road and former Tank Farm 1, where free product was found floating above the water table in the area.

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In October 1983, the Base Civil Engineering Department installed and sampled well TF3-CE3, shown in Figure 3-1. The well was found to contain free product. When monitoring well TF3-CE3 was sampled again during the summer of 1984, no free product was detected.

In the summer of 1984, Roy F. Weston, Inc. installed 33 temporary wells and eight permanent wells. The Weston report hypothesized that the source of the fuel in the groundwater was potentially contributed by two sources: (1) numerous small spills and leaks from the Tank Farms, and (2) from a former truck maintenance shed that was located north of Building 3, where base personnel informed Weston that waste fuels were discharged to the subsurface via a drywell (Weston, November 1985). Review of the 1994 Environmental Baseline Survey (EBS) did not confirm information on drywells or a truck maintenance shed north of Building 3, prior to 1985. The Expanded Site Investigation (ESI) of Area of Interest (AOI) Site 58/101 detected minor SVOCs in surficial soils north of Building 3; however, the groundwater was not impacted (Tetra Tech, September 1994).

In November 1985, all ASTs and USTs associated with Tank Farms 1 and 3 were removed, with the exception of the bulk fuel ASTs (AST 161, 162, and 163). While underground piping was being cut and capped at Tank Farm 1, a 4-inch pipe was found to be full of AVGAS. While a similar action was being performed at Tank Farm 3, the contractor discovered 3 inches of fuel on the floor of Building 147 (Tank Farm 3 pumphouse) and fuel in a header pipe. Industrial Tank and Oil Company subsequently removed the fuel (1,200 gallons). There is no indication in the administrative records that endpoint sampling was performed following the removal of the ASTs and USTs.

In December 1985, Barsons Construction Company removed 60,000 cubic yards (c.y.) of contaminated soil and replaced it with clean fill.

In 1988, the bulk fuel ASTs (AST 161, 162, and 163) and associated underground facilities were removed, along with any contaminated soils. The soil berms surrounding the bulk fuel ASTs were used to fill the excavated area previously occupied by the removed contaminated soil and underground facilities. Additional cover soil was placed on top of the former berm material to bring the excavated area to grade.

In 1993 and 1994, monitoring wells TF3MW-21, -25, -27 and TF3-CE3 were sampled as part of the quarterly sampling program. The analytical results indicated no VOC or SVOC exceedances of the New York State (NYS) Groundwater Standards. No VOC, SVOC, or metal data were found to exist for wells TF3MW-22, -23, -24, -26, and -28. Based on the October 1998 well/piezometer inventory (E&E, January 1999), and visual inspection, these additional wells do not exist at the present time.

Groundwater observation wells TF3TW-1 and -2 were placed as close as practical to boring locations TF3SB-16 and -17, respectively, to identify the presence of free product. No free

product was observed in either temporary well. However, the boring logs and field notes from TF3TW-1 indicated flame ionization detector (FID) readings as high as 1,000 parts per million (ppm) near the surface of the water table (14 ft bgs) and sheen on all split-spoon samples. The field notes for TF3TW-2 indicated a maximum FID reading of 100 ppm at an interval from 4 to 6 ft bgs (vadose zone) and a slight sheen on all split-spoon samples, except the interval from 0 to 2 ft bgs.

In 1999 and 2000, FPM completed a Supplemental Study to fill data gaps and fully delineate groundwater contamination at the site (FPM, September 2000). A total of 96 soil borings were installed with 72 groundwater samples collected and analyzed using United States Environmental Protection Agency (USEPA) methods 8021 for VOCs and 8270 for SVOCs. In addition, groundwater samples were collected from existing monitoring wells TF3MW-1, TF3-CE3, and TF3MW-21 and newly installed TF3MW-2. These locations are shown in Figure 3-1.

In general, groundwater sample analysis showed numerous exceedances downgradient of USTs 114-1 through -8 (NYSDEC open Spill #9111733) and USTs 147-1 through -4. Except for minor exceedances at TF3TW-43 and -55, groundwater samples immediately downgradient from former Building 165, bulk fuel storage ASTs 161, 163, and 6045, and UST 5885 showed no groundwater exceedances.

In November 2001, monitoring wells TF3MW-116, -117, -118, -119, -120, -121, -123, -124, -125, -126, -127, -128, -129, and -130 were installed and developed prior to sampling. A source removal action in Fall 2002, at the Tank Farms 1 and 3 site, removed residual soil contamination that was identified during the previous soil boring activities and not removed during the Barson's excavation in 1985. Approximately 12,800 c.y. of soil was excavated from locations within the former bermed area and vicinity including the former building 147 footprint at Tank Farms site. Removal of the residual soil contamination continued into the saturated zone where contamination was located and stopped any additional leaching of contamination to groundwater from the vadose zone (Parsons, December 2003).

In summary, separate petroleum plumes may have originated from three locations including, USTs 114-1 through -8 and USTs 147-1 through -4, as well as the former truck maintenance shed north of Building 3, possibly in the vicinity of TF3MW-123 or -125. The dissolved groundwater plume appears to be well defined and to be naturally attenuating. Based on observations at the site and based on the size and stability of the dissolved plume, residual free product has not been identified (FPM, February 2004).

#### 3.3 LTM PLAN

Table 3-1 summarizes the original LTM sampling and analysis plan. The objectives of the Tank Farm 1 and 3 LTM program include the following:

• Monitor the groundwater to track plume migration.

• Monitor natural attenuation parameters including pH, temperature, alkalinity, redox potential, nitrate, ferrous iron, sulfate, sulfide and dissolved oxygen to assess the potential for natural attenuation of the petroleum plume.

Site/	Screen	Sampling Rationale	Target Analytes/	Sampling
Sampling	Interval		<b>USEPA Method Numbers</b>	Frequency
Locations	(ft. MSL)			
TF3-CE3	442-457	Downgradient, within plume	VOCs 8260 AFCEE QAPP	
TF3MW-2	450-460	Downgradient, within plume	3.1 List	Quarterly
TF3MW-21	445-465	Downgradient within plume		
TF3MW-25	444-464	Crossgradient	SVOCs 8270	
TF3MW-116	449-459	Downgradient within plume		
TF3MW-117	448-458	Crossgradient from plume	* Natural attenuation	
TF3MW-123	449-459	Downgradient within plume	parameters pH, temperature,	
TF3MW-124	449-459	Crossgradient from plume	redox potential, ferrous	
TF3MW-125	449-459	Downgradient	iron, and dissolved oxygen	
TF3MW-126	449-459	Downgradient within plume	will be measured in the	
TF3MW-127	450-460	Upgradient within plume	field.	
TF3MW-128	451-461	Upgradient within plume		
TF3MW-129	451-461	Upgradient from plume	Alkalinity, nitrate, sulfate,	
TF3MW-130	451-461	Upgradient within plume	sulfide	

 Table 3-1

 Tank Farms 1 and 3 Quarterly Sampling Analysis Summary

### 3.4 **RESULTS**

Seventeen sampling rounds were conducted at the Tank Farm 1 and 3 SRA site in: December 2001; February, June, September and December 2002; March, June, September and December 2003, and March, June, September, and December 2004, March 2005, and March, June and September 2006. Sampling locations are identified on Figure 3-2. The detected groundwater analytical results are shown in Table 3-2, and total VOC detections and groundwater elevations are illustrated in Figures 3-3 and 3-4. Groundwater flow is to the south-southeast. VOC- and SVOC-contaminated groundwater plumes are shown on Figure 3-2. Two plumes from two source areas have stabilized and are attenuating. The plume located near monitoring wells TF3MW-127, -128, and -133 is associated with former UST 147-1 through 4, while the second plume is located in the vicinity of TF3MW-21, -116, -123 and decommissioned well TF3MW-125, where the source was most likely former USTs 114-1 through -8 and the former truck maintenance shed that was located north of Building 3 (possibly near TF3MW-123 and -125).

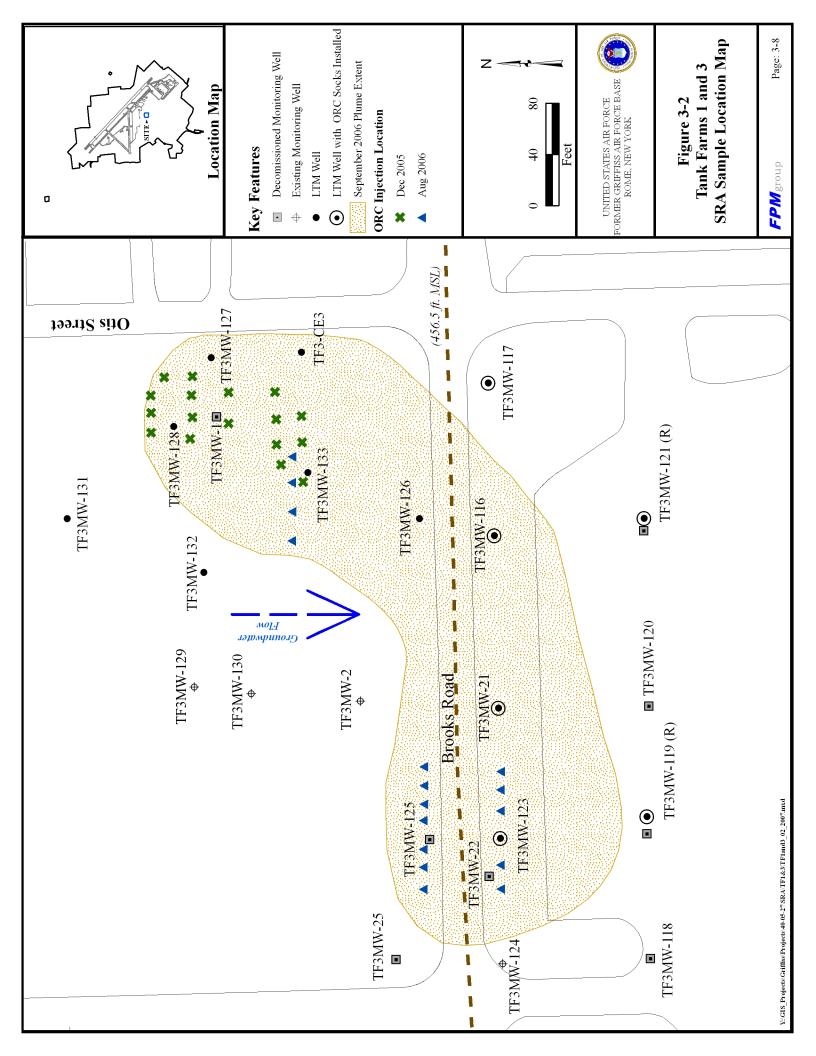


Table 3-2
Tank Farms 1 and 3 Detected Analytical Results

Monitoring Well ID	NYSDEC								Т	F3-CE3							
Sample ID	GW	TF3CE313AA	TF3CE312BB	TF3CE313CA	TF3CE312DA	TF3CE312EA	TF3CE313FA	TF3CE313GB	TF3CE313HB	TF3CE312IB	TF3CE313JB	TF3CE313KB	TF3CE313LB	TF3CE313MA	TF3CE312NA	TF3CE313OA	TF3CE313PA
Date of Collection	Standards	2/19/02	6/19/02	9/13/02	12/12/02	3/12/03	6/20/03	9/12/03	12/12/2003	3/17/2004	6/17/2004	9/16/2004	1/3/2005	3/29/2005	3/28/2006	6/20/2006	9/26/2006
Sample Depth (ft)	(µg/L)	13	12	13	12	12	13	13	13	12	13	13	13	13	12	13	13
VOCs (ug/L)																	
1,1,1-trichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n - butylbenzene	5	1.1	1.1	U	U	U	U	U	U	2.7	0.85 F	8.6	0.37 F	1.4	0.46 F	1.1	1.31
sec-butylbenzene	5	4.4	4.8	8.1	3.4 ♦	1.9	1.6	1.7	6.0	6.0	5.0	5.8	2.9	4.7	2.8	3.7	4.06
t-butylbenzene	5	0.85	1.1	1.2	0.83 ♦	0.39 F	U	0.34 F	0.79 F	0.71 F	0.69 F	0.78 F	0.46 F	0.7 F	0.50 F	0.59 F	0.85
chloroethane	5	U	U	0.21 F	U	U	U	U	U	U	U	U	U	0.22 F	U	0.29 F	U
chloroform	7	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloromethane	5	U	U	0.24 F	U	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	5	0.21 F	U	0.37 F	U	U	U	U	U	0.28 F	U	0.22 F	U	U	U	U	U
isopropylbenzene	5	6.9	7.6	13	5.1 ♦	2.1	3.1	3.6	9.8	11	7.8	8.7	3.4	7.3	3.2	5.2	6.4
methyl ethyl ketone	5	U	U	U	U	1.6 UJ	U	U	U	U	U	U	U	U	U	U	U
naphthalene	10	U	1.3	5.2	2 J	0.72 F	0.78 F	0.81 F	2.6	3.8	2.0	2.2	0.71 F	2.2	0.81 F	1.6 B	2.33
n-propylbenzene	5	8.1	5.8	11	4.8 ♦	2	2.3	2.1	10	13	8.4	U	3.4	8.6	3.4	5.8	6.68
trichloroethylene	5	1.7	0.98	1	2	2	1.4	3	1.6	1.3	1.1	1.2	1.7	0.95 F	1.7	1	1.13
m,p-xylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total VOCs		22.16	21.58	40.32	18.13	9.11	9.18	11.55	30.79	38.79	25.84	27.5	12.94	26.07	12.87	19.28	22.76
SVOCs (µg/L)																	
2-methylnaphthalene		6 F	U	U	U	U	2 F	4 F	3 F	U	N/S						
di-n-butyl phthalate	50	4 F	U	U	U	U	U	U	U	U	N/S						
Wet Chemistry Data (mg/L)																	
nitrate	10,000	0.36	0.087	0.32	N/A	0.38	0.71	0.60	0.56	0.63	0.46	0.52	0.17	0.4	N/S	N/S	N/S
sulfate	250,000	17.3	11.4 B	17.4	6.4	10.7 B	15	20.3	11.6	14.2	N/S						
sulfide		U	U	U	U	U	U	U	U	0.077 F	N/S						
total alkalinity		242	217	342	174	189	202	211	412	179 B	243	197	210	230	N/S	192	250
Field Parameters																	
dissolved iron (mg/L)		3.5	N/A	5.5	2.8	2.9	2.8	2.5	3.4	2.4	3	3	3.4	2.8	3	4	3.6
pH		7.11	7.88	6.68	7.12	7.09	7.29	7.32	6.61	7.32	7.22	7.74	7.93	7.01	6.84	7.46	7.29
specific conductance (µS/cm)		469	550	658	534	497	342	515	589	66	66	67	62	64	96.3	0.11	78.7
temperature (degrees C)		9.8	10.3	12.8	11.8	9.33	9.76	12.35	11.42	8.68	9.7	12	10.7	9.1	9.41	10.8	12.8
dissolved oxygen (mg/L)		4.23	1.05	1.62	2.78	4.62	3.12	6	2.95	3.3	3.5	4.03	5.6	6.41	2.49	6.05	4.77
oxidation reduction potential (mV	)	-103	-127	-3	-114	-27	-122	-141	-110	-79	-108	-107	-88	50	-107	29	-26
Notes:																	

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

-- Indicates no NYS GA Groundwater Standard

Indicates higher value detected in the sample duplicate or during the dilution phase.
 B - The analyte was also detected in a blank.

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

N/A - Analyte was not analyzed during sampling

1997 - Yanayi e was not aming an any zet during sampling NS- Analyte was not sampled.
R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.
U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.
U - The analyte was not detected above the RL. However the quantitation is an approximation.

			Tank	Farms 1 and 3 D	Detected Analytica	Table 3-2 I Results (contin	ued)				gust 200 Page 3-1
Monitoring Well ID	NYSDEC				jj	TF3MW-2					1
Sample ID	GW	<b>TF3M0214AA</b>	<b>TF3M0214BB</b>	<b>TF3M0219CA</b>	TF3M0214DA	<b>TF3M0214EA</b>	TF3M0214FA	TF3M0215GB	<b>TF3M0214HB</b>	TF3M0214IB	-
Date of Collection	Standards <sup>1</sup>	2/26/02	6/19/02	9/13/02	12/12/02	3/12/03	6/23/03	9/12/03	12/12/2003	3/18/2004	1
Sample Depth (ft)	(µg/L)	14	14	19	14	14	14	15	14	14	
VOCs (ug/L)											
1,1,1-trichloroethane	5	U	0.68	0.31 F	0.41 F	0.54	0.35 F	U	U	U	
1,2,4-trimethylbenzene	5	0.71	U	U	0.24 F	U	0.24 F	0.39 F	U	U	
acetone	50	U	U	U	U	U	U	U	4.1 F	U	
chloroform	7	1.8	2	0.77	1.3	2.1	0.92	0.83	1.1 B	1	04
ethylbenzene	5	0.54	0.3 F	0.24 F	0.21 F	U	0.3 F	U	U	U	Well was not sampled after March 2004
isopropylbenzene	5	0.66	U	0.58	0.38 F	U	0.29 F	0.29 F	0.43 F	U	rch
methyl ethyl ketone	5	U	U	U	U	1.6 UJ	U	U	U	U	Mai
n-propylbenzene	5	0.39 F	U	0.31 F	0.23 F	U	0.23 F	U	U	U	er ]
trichloroethylene	5	0.91	1	0.51	0.62	0.95	0.52 F	0.75 F	0.9 F	0.68 F	afte
m,p-xylene	5	0.45 F	U	U	U	U	U	U	U	U	ed :
Total VOCs		5.46	3.98	2.72	3.39	3.59	2.85	0.83	5.43	1.68	lq
SVOCs (µg/L)											an a
Total SVOCs		0	0	0	0	0	0	0	0	0	ote
Wet Chemistry Data (mg/L)											s
nitrate	10,000	1.3	1.1	1.5	N/A	1.3	0.8	0.94	1	1.3	wa
sulfate	250,000	27.2	17 B	13.1	9.1	17.6 B	16.5	15.7	15.3	18.1	ell
sulfide		U	U	U	U	U	U	U	U	U	M
total alkalinity		144	120	148	87.2	132	148	158	222	218	
Field Parameters											
dissolved iron (mg/L)		0.3	N/A	0.8	0.8	0	0	0	0.4	0	
pH		7.35	7.58	7.26	7.17	7.49	7.26	7.42	6.44	7.4	
specific conductance (µS/cm)		326	360	544	469	277	287	426	459	48	_
temperature (degrees C)		10.3	10.4	12.7	12.5	9.96	10.49	12.13	12.44	9.41	_
dissolved oxygen (mg/L)		5.65	3.92	3.79	6.19	6.8	5.56	6.26	4.97	6.7	_
oxidation reduction potential (mV)		-47	-19	-19	-35	226	-11	-73	78	52	

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

-- Indicates no NYS GA Groundwater Standard

+ - Indicates higher value detected in the sample duplicate or during the dilution phase.

B - The analyte was also detected in a blank.

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

N/A - Analyte was not analyzed during sampling

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL. However the quantitation is an approximation.

								Table 3-2									Page 3-1
							Tank Farms 1 and		ical Results (contin	ued)							-
Monitoring Well ID	NYSDEC								TF3N	4W-21							
Sample ID	GW	TF3M2114AA	TF3M2114BB	TF3M2115CA	TF3M2113DA	TF3M2114EA	TF3M2114FA	TF3M2114GB	TF3M2114HB	TF3M2114IB	TF3M2114JB	TF3M2114KB	TF3M2114LB	TF3M2114MA	TF3M2114NA	TF3M2114OA	TF3M2114PA
Date of Collection	Standards	2/27/02	6/19/02	9/13/02	12/12/2002	3/12/2003	6/23/2003	9/11/2003	12/12/2003	3/18/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006
Sample Depth (ft)	(µg/L)	14	14	15	13	14	14	14	14	14	14	14	14	14	14	14	14
VOCs (ug/L)																	
1,1-dichloroethane	5	0.33 F	0.25 F	U	0.23 F	0.24 F	U	U	U	U	U	U	U	U	U	U	U
1.1.2.2-tetrachloroethane	5	U	1.9	U	U	0.16 UJ	U	U	U	U	U	U	U	U	U	U	U
1,2-dibromo-3-chloropropane	0.04	U	U	2.1 J 🔶	U	0.25 UJ	U	U	U	U	U	U	U	U	U	U	U
1,2,3-trichloropropane	0.04	U	1.1	U	U	0.16 UJ	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5	3.3	2.4 •	11	0.41 F	2.2 J 🔶	0.9 F	9.6	1.8	U	1.9 F	U	U	U	0.56 F	U	1.04 ♦
1,3,5-trimethylbenzene	5	1.3	U	0.4 F	U	0.5 J ♦	U	2.6	U	U	U	U	U	U	U	U	U
benzene	1	0.75	0.55	0.56 ♦	U	0.15 UJ	U	U	U	U	U	U	U	U	U	U	0.23
n - butylbenzene	5	5.1	4.4	6.9 J ♦	4.3	0.22 UJ	U	8.1	U	3.8 F	3 F	2.5 F	1.8 F	2.2 F	2	4 ♦	3.2 ♦
sec-butylbenzene	5	6.4	6.4	9.8	4.8	4.7 J ♦	Ŭ	7.2	6.4	2.9 F	5.4	5.3	3.8 F	3.3 F	4.6	5.3 J	5.1
t-butylbenzene	5	1.8	1.6	2.3	1.2	1.3 J ♦	1.2 J	2	U	U	0.69 F	1.5 F	U	U	1.2	1.4 J	1.84 ♦
chloroethane	5	U	U	0.82 J 🔶	0.55	0.16 UJ	0.44 F	U	U	U	U	U	U	U	U	1.3 J	U
chloromethane	5	U	U	0.85 ♦	0.33 F	0.26 J ♦	0.28 F	U	U	U	U	U	U	U	U	IJ	U
ethylbenzene	5	U	0.28 F	U	U	0.18 UJ	0.71 F	3.5	U	U	U	U	U	U	U	U	U
Hexachlorobutadiene	0.5	U	U	U	U	U	U	U	Ŭ	U	1.4 F	U	U	U	U	U	U
isopropylbenzene	5	34	28	50	36	25 J ♦	32 J	71	63	23	30	41	29	24	48 ♦	54 ♦	64
p-isopropyltoluene	5	8.9	7	10 ♦	4	4.4 J ♦	3.5 J	7.6	63	2.4 F	4.4 F	4.1 F	4 F	3.8 F	3.8	3.2 F +	4.1 •
methylene chloride	5	U	U	U	U	U	U	U	U	2.6 F	U	U	U	U	U	U	U
naphthalene	10	U	U	1.6 J ♦	0.78 J	0.21 UJ	0.7 F	2.2	2	U	1.1 F	1.2 F	1.2 F	1.6 F	2	1.8 J	3.26 +
n-propylbenzene	5	7.8	6.7	10	6.9	5.2 J 🔶	5.2 J	12	11	4.2	6.7	8.8	6.7	5.4	8.4	8.1 •	10.8
tetrachloroethylene	5	U	U	U	U	0.18 UJ	U	U	U	U	U	U	U	U	U	U	U
trichloroethylene	5	U	U	Ŭ	Ŭ	0.17 UJ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ
toluene	5	0.31 F	Ŭ	0.48 F	Ŭ	0.16 UJ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	2 F	Ŭ	Ŭ	Ŭ	Ŭ	0.24
m,p-xylene	5	4.4	4.5	8.2	1.2	1.9 J +	2.3 J	18	5.2	2 F	3.7 F	2.4 F	2.8 F	3.2 F	4.2	1.1 F	1.18
Total VOCs		74.39	65.08	108.11	60.7	40.5	42.03	143.8	95.7	40.9	58.29	68.8	49.3	43.5	74.76	81.2	94.99
SVOCs (µg/L)																	
2-methylnaphthalene		5 F	U	6	U	U	3 F	4 F	4 F	U	N/S						
acenapthene		U	U	U	U	U	U	U	2 F	U	N/S						
benzoic acid		Ŭ	Ŭ	Ŭ	Ŭ	13 UJ	17 R	18 R	U	Ŭ	N/S						
phenanthrene		Ŭ	Ŭ	Ũ	Ŭ	U	U	U	2 F	Ŭ	N/S						
di-n-butyl phthalate	50	3 F	U	3	U	U	U	U	U	U	N/S						
2.4.5-trichlorophenol	1*	U	3 M	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	N/S						
2.4.6 - trichlorophenol	1*	Ŭ	4 M	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	N/S						
2,4-dichlorophenol	1*	Ŭ	5 M	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	N/S						
2,4-dinitrophenol	1*	Ŭ	13 M	Ŭ	Ŭ	11 UJ	Ŭ	Ŭ	Ŭ	Ŭ	N/S						
4.6-dinitro-2-methylphenol	1*	U	18 M	U	U	U	U	Ŭ	U	U	N/S						
4 - nitrophenol	1*	Ŭ	4 M	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	N/S						
Total SVOCs		8 F	0	9	0	0	3F	4 F	8 F	0	N/S	N/S	N/S	N/S	0	0	0
Wet Chemistry Data (mg/L)			0	, í			51		5.		.05					0	Ū
nitroto	10000	II.	IJ	U	L.	U		L.	T.	U	II	U.	U.	T.	N/S	N/S	NI/C

U

U

6.9

456

2.4

8.99

979

12.79

8.13

-144

U

10.9

U

16

7.41

62 10.11

4.1

-90

U

N/S

N/S 210

2.4

6.92

60

2.4 -95

U

N/S

187

6.98

60 13.2

5.2 -107

U

N/S 174

3.6

6.73

68 12.5

8.19

-133

N/S

N/S

166

3.6

7.83

92.8 10.7

7.06

-90

N/S

N/S

N/S N/S

3.8

7.58

114

11.1

3.66

-27

N/S

N/S

N/S 147

7.26

89.2 11.4

7.68 -97

N/S

N/S

240

2.8

0.12

3.34

-116

specific conductance (µS/cm) temperature (degrees C) dissolved oxygen (mg/L)

total alkalinity Field Parameters dissolved iron

oxidation reduction potential (mV) Notes

pН

nitrate

sulfate

sulfide

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

10000

250000

U

4

U

3.8

7.26

591

10.5

3.26 -130

U

U

185

N/A

8.19

665

1.08

-139

10.5

U

4.5

U

158

7.09

524 12.3

6.99

-101

3.7 B

U

210 ♦

3.2

6.92

940

12.8

1.54

108

U

U

10.5 B 🔶

178

19

9.95

443

10.1

4.24

U

34.9

U

182

19

7.36

749

10.4

4.28

-156

U

8.4

U

221

16

7.43

898 12.05

4 35

-149

\* - Sum of total phenolic compounds may not exceed 1 ppm.
 • - Indicates higher value detected in the sample duplicate or during the dilution phase.

(mg/L)

-- Indidcates no NYS GA Groundwater Standard B - The analyte was also detected in a blank.

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

M - Matrix effect present

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

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Tank Farms 1 and 3 Detected Analytical Results (continued)													
Monitoring Well ID         NYSDEC         TF3MW-25           Sample ID         GW         TF3M2513AA         TF3M2513BB         TF3M2514CA         TF3M2512DA         TF3M2513FA         TF3M2513GB													
Sample ID	GW	TF3M2513AA	TF3M2513BB	TF3M2514CA	TF3M2512DA	TF3M2513EA	TF3M2513FA	TF3M2513GB					
Date of Collection	Standards <sup>1</sup>	2/26/02	6/19/02	9/13/02	12/12/2002	3/12/2003	6/20/2003	9/11/2003					
Sample Depth (ft)	(µg/L)	13	13	14	12	13	13	14					
VOCs (ug/L)													
acetone	50	U	U	U	U	U	U	2.4 F					
t-butylbenzene	5	1.8	U	U	U	U	U	U					
bromomethane	5	U	U	U	U	0.19 UJ	U	U	03				
chloroform	7	1.2	1.2	1.1	0.97	1.1	0.61	0.63	- 20				
ethylbenzene	5	0.23 F	U	U	U	U	U	U	ber				
tetrachloroethylene	5	0.29 F	0.27 F	0.33 F	0.28 F	0.31 F	U	0.29 F	eml				
trichloroethylene	5	0.4 F	0.35 F	0.38 F	0.38 F	0.35 F	U	0.31 F	epte				
toluene	5	U	U	U	U	U	U	U	Š				
m,p-xylene	5	U	U	U	U	U	U	U	fter				
Total VOCs		3	1.2	1.1	0.97	1.1	0.61	3.94	l ai				
SVOCs (µg/L)									ple				
benzoic acid		U	U	U	U	13 UJ	17 R	18 R	lm				
isophorone	50	U	U	U	U	U	1 R	U	t sa				
2,4-dinitrophenol	1*	U	U	U	U	11 UJ	U	U	ou				
Total SVOCs		0	0	0	0	0	0	0	ell				
Wet Chemistry Data (mg/L)									d w				
nitrate	10000	1	0.83	0.85	N/A	1.5	0.92	0.7	nee				
sulfate	250000	27.9	17.9 B	178 B	7.7	16.1 B	17.9	17.4	ssio				
sulfide		U	U	U	U	U	U	U	mis				
total alkalinity		160	122	148	106	131	140	139	Decomissioned well not sampled after September 2003				
Field Parameters									Ď				
Dissolved Iron (mg/L)		0.5	N/A	0.6	0.8	0.1	1.8	N/S					
pH		7.38	7.94	7.1	7.1	7.06	7.28	N/S					
Specific Conductance (µS/cm)		483	573	876	506	385	503	N/S					
Temperature (degrees C)		10.3	10.4	13.2	12.5	10.14	10.15	N/S					
Dissolved Oxygen (mg/L)		4.35	2.76	3.12	3.89	9.07	4.45	N/S					
Oxidation Reduction Potential (mV)		-77	-101	-22	-88	235	-108	N/S					

 Table 3-2

 Tank Farms 1 and 3 Detected Analytical Results (continued)

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

\* - Sum of total phenolic compounds may not exceed 1 ppm.

+ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indidcates no NYS GA Groundwater Standard

B - The analyte was also detected in a blank.

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

M - Matrix effect present

N/A - Analyte was not analyzed during sampling

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

#### Table 3-2 Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	Tank Farms 1 and 3 Detected Analytical Results (continued)  NYSDEC  F3MU1613Aa/F3MU1613Aa/F3MU1613BB/F3MU1614CA/F3MU1613BA/F3MU1613BA/F3MU1613BA/F3MU1613BB/F3MU1613BB/F3MU1613BB/F3MU1613BB/F3MU1613BA/F3MU1613BA/F3MU1613BA/F3MU1613BB/F3MU1613BB/F3MU1613BB/F3MU1613BB/F3MU1613BB/F3MU1613BA/F3MU1613BA/F3MU1613BB/F3B/F3B/F3B/F3B/F3B/F3B/F3B/F3B/F3B/																	
Sample ID		TE2M11612AA	TE2M11612A A	FE2M11612DE	TE2M11614CA	TE2M11612DA	TE2M11612EA	TE2M11612EA	TE2M11614CP			TE2M116121D	TF3M11613KB	TF3M11613LB	TE2M11612MA	TF3M11613NA	TF3M11614OA	TE2M11614DA
Date of Collection	Standards <sup>1</sup>	12/13/01	2/27/02	6/18/02	9/13/02	12/19/02	3/12/03	6/23/03	9/12/2003	12/12/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006
Sample Depth (ft)	(µg/L)	12/13/01	13	13	14	13	13	13	3/12/2003	13	13	13	16	12/30/2004	13	13	14	14
VOCs (ug/L)	(µg/L)	15	15	15	14	15	15	15		15	15	15	10	15	15	15	14	14
1.2.4-trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	0.26 F	UM	U	U	U	U	U
1,2-dichloropropane	1	Ŭ	0.82	U	U	U	U	Ŭ	Ŭ	U	U	U	U	U	U	U	U	U
p-isopropyltoluene	5	U	U	U	0.65	0.38 F	0.22 F	Ŭ	Ŭ	Ŭ	U	U	U	U	U	U	U	U
sec-butylbenzene	5	10	8.1 ♦	7.3	10	10	4.1	7.9	3.1 •	3.5 +	4.9 ♦	6.5	13 M	14	8 M	8.7	4.5	4.03
t-butylbenzene	5	2.1	1.5 +	2.2	2.1	2.1	1.2	1.7 J	0.86 ♦	1.2 •	1.8 •	1.9	2.8 M	2.3	1.8 J	1.6	1.5	1.54
cis-1.2-dichloroethylene	5	U	0.26 F	U	U	U	U	U	U	0.24 F	U	U	U	U	U	U	U	U
chloroethane	5	Ŭ	U.201	Ŭ	Ŭ	U	Ŭ	Ŭ	Ŭ	U	Ŭ	Ŭ	Ŭ	U	0.36 F	U	0.54 F	Ŭ
ethylbenzene	5	Ŭ	Ŭ	Ŭ	Ŭ	U	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	0.24 F	Ŭ	0.21 F	U	U	U	Ŭ
isopropylbenzene	5	15	7.9 ♦	12	6.3	14	4.9	9	2.8 ♦	5.8 ♦	9.4 ♦	14	22	18	9.4 M	9.9	5.8	7.44
n - butylbenzene	5	3.8	3.6	4.4	7.8	3.8	U	3.1 J	2 •	1.5 +	1.8 ♦	1.5	3.6 M	3.8	3.3 J	4.2	2	1.8
methyl ethyl ketone	5	U	U	U	U	U	1.6 UJ	U	U	U	U	U			U	U	Ū	U
n-propylbenzene	5	8.3	10 ♦	11	9.5	6.8	4.6	9.4	2.7 ♦	3.7 ♦	6 ♦	6.8	16	18	9.3 M	4.4	4.4	4.18
toluene	5	U	U	U	0.22 F	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2 - dichloropropane	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
napthalene	10	U	U	U	U	U	U	U	U	U	U	U	U	U	0.21 F	U	U	U
Total VOCs		39.2	32.18	36.9	36.57	37.08	15.02	31.1	11.46	15.94	23.9	31.2	57.6	56.31	32.37	33.2	18.79	18.99
SVOCs (µg/L)																		
2-methylnaphthalene		8	10	11	4	11	10	3	10	7 F ♦	6 F 🔶	N/S						
2,4-dichlorophenol	1*	U	U	5 M	U	U	U	U	U	U	U	N/S						
2,4-dinitrophenol	1*	U	U	13 M	U	U	11 UJ	U	U	U	U	N/S						
2,4,5-trichlorophenol	1*	U	U	3 M	U	U	U	U	U	U	U	N/S						
4,6-dinitro-2-methylphenol	1*	U	U	18 M	U	U	U	U	U	U	U	N/S						
4-nitrophenol	1*	U	U	4 M	U	U	U	U	U	U	U	N/S						
2,4,6-trichlorophenol	1*	U	U	4 M	U	U	U	U	U	U	U	N/S						
napthalene	10	U	U	U	U	U	U	4	U	U	U	N/S						
phenanthrene	50	U	U	U	U	U	U	2	U	U	U	N/S						
pyrene	50	U	U	U	U	U	U	2	U	U	U	N/S						
di-n-octyl phthalate	50	U	U	3 F	U	U	U	U	U	U	U	N/S						
Total SVOCs		8	10	14	4	11	10	11	10	7	6	N/S						
Wet Chemistry Data (mg/L)																		
nitrate	10000	N/A	U	U	U	U	0.056	U	U	U	0.1 ♦	0.052	U	0.31	U	N/S	N/S	N/S
sulfate	250000	N/A	U	11.1	2.9 B	7.9	11.4 B	U	13.2	21.6 ♦	10.1	N/S						
sulfide		N/A	U	U	U	U	U	U	U	U	0.091 F ♦	N/S						
total alkalinity		N/A	232 ♦	215	252	181	260	252	227 ♦	487	161 B 🔶	222	191	224 ♦	201	N/S	178	250
Field Parameters																		
dissolved iron (mg/L)		N/A	6	N/A	6.8	3.5	2.4	5.6	2.8	N/A	4.4	5	5	4.2	1.8	3.2	4.5	3.2
pH		7.5	7.05	7.96	6.91	6.92	9.9	7.09	6.85	8.78	6.74	6.8	6.65	6.49	8	7.4	7.02	7.3
specific conductance (µS/cm)		1020	437	668	821	674	471	519	582	767	66	83	79	63	90	86.7	0.169	140
temperature (degrees C)		12.91	10.5	10.7	13.1	12.5	10.3	10.78	12.22	12.9	9.38	10.4	13.1	12.2	10.2	10.6	11	14.1
dissolved oxygen (mg/L)		5.06	3.55	0.62	1.16	5.55	3.71	4.46	5.24	4.36	3.5	3.9	2.65	7.29	6.78	3.19	6.82	0.7
oxidation reduction potential (mV)	1	-124	-117	-135	-16	-105	-120	-142	-136	-135	-63	-99	-106	-131	-113	-72	-92	-122

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

+ - Indicates higher value detected in the sample duplicate or during the dilution phase.

\* - Sum of total phenolic compounds may not exceed 1 ppm.

-- Indidcates no NYS GA Groundwater Standard B - The analyte was also detected in a blank.

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

M - Matrix effect present

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

#### Table 3-2 Tank Farms 1 and 3 Detected Analytical Results (continued)

		Tank Farms 1 and 3 Detected Analytical Results (continued)																
Monitoring Well ID	NYSDEC					r	r		r	TF3MW-1								
Sample ID	GW											TF3M11713JB						
Date of Collection	Standards	12/13/01	2/27/02	6/18/02	9/13/02	12/12/2002	3/12/03	6/20/03	9/12/2003	12/12/2003	3/18/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006
Sample Depth (ft)	(µg/L)	13	13	13	13	12	13	13	13	13	13	13	13	13	13	13	13	14
VOCs (ug/L)																		
1,1,2 -trichloroethane	1	U	U	0.42 M	U	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2-dibromo-3-chloropropane	5	U	U	U	U	U	0.25 UJ	U	U	U	U	U	U	U	U	U	U	U
benzene	1	0.29 F	0.35 F	U	0.28 F	0.31 F	U	0.28	0.24 F	U	0.26 F	U	U	U	U	U	U	0.12
bromomethane	5	U	U	U	U	U	0.19 UJ	U	U	U	U	U	U	U	U	U	U	U
chloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	0.38 F	U	0.41 F	U
chloromethane	5	U	U	U	U	0.21 F	U	U	U	U	U	U	U	U	0.49 F	U	0.4 F	U
sec-butylbenzene	5	1.9	1.6	1.4	2.8	1.9	U	6.1	2.4	5.6	2.1	4.8	6.4	U	U	0.95 F	0.86 F	0.55
t-butylbenzene	5	1	2.5	2.6	2	2.1	2.2	2	2.7	1.9	2.8	2.9	2.8	U	2	2.2	1.8	1.36
cis-1,2-dichloroethylene	5	0.4 F	0.29 F	U	U	U	0.36 F	0.22 F	U	0.48 F	0.33 F	U	U	U	U	U	0.34 F	0.2
isopropylbenzene	5	2	0.52	1.1	4.7	1.1	0.8	7.7	2.9	6.1	2.9	6.4	12	5.9	3.9	1.1	0.73 F	0.15
p-isopropyltoluene	5	1.8	4.5	U	U	U	3.8	U	5.5	U	5.2	6	5.5	U	U	U	U	U
n-butylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	0.48 F	U	U	U	U
n-propylbenzene	5	0.32 F	U	U	0.52	U	U	0.83 F	0.37 F	2.5	0.39 F	2.5	5.2	3.7	0.66 F	U	U	U
Total VOCs		7.71	9.76	5.1	10.3	5.62	7.16	17.13	14.11	16.58	13.98	22.6	31.9	10.08	7.43	4.25	4.95	2.38
SVOCs (µg/L)																		
2,4-dichlorophenol	1*	U	U	4 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4-dinitrophenol	1*	U	U	12 M	U	U	11UJ	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4,5-trichlorophenol	1*	U	U	3 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S
4,6-dinitro-2-methylphenol	1*	U	U	16 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S
4-nitrophenol	1*	U	U	3 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2,4,6-trichlorophenol	1*	U	U	4 M	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S
benzoic acid		U	U	U	U	U	13 UJ	17 R	7 R	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Wet Chemistry Data (mg/L)																		
nitrate	10000	N/A	0.064	U	U	U	U	U	U	0.061	0.11	0.069	2.5	0.67	0.29	N/S	N/S	N/S
sulfate	250000	N/A	U	7.7	6.2 B	3.2	5.8 B	83.4	U	6.3	1.3	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide		N/A	U	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity		N/A	298	274	312	206	251	264	307	445	336	316	269	244	237	N/S	224	280
Field Parameters																		
dissolved iron (mg/L)		N/A	6	N/A	6.2	5.6	4.6	4.9	4	3.3	4.2	4.4	3.6	3.2	3.5	3	4.2	4
pH		7.57	6.87	7.82	6.92	6.84	9.58	6.93	6.98	8.63	6.82	6.64	6.78	6.45	7.87	7.41	7.06	7.14
specific conductance (µS/cm)		1340	1190	1840	1620	1330	158	209	180	179	13	95	82	80	98	133	14	16
temperature (degrees C)		13.71	10	11	14.8	13.4	9.5	10.72	14.03	13.88	8.81	10.7	15	12	8.8	9.5	11.7	15.7
dissolved oxygen (mg/L)		4.31	4.19	6.93	1.39	3.55	5.35	4.13	5.53	6.71	4.9	2.5	4.42	9.22	5.46	4.78	7.47	0.51
oxidation reduction potential (mV)		-93	-98	-123	88	-102	-102	-119	-141	-112	-68	-53	-97	-122	-94	-10	-85	-113
Notes:																		

Notes: 1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

-- Indidcates no NYS GA Groundwater Standard

\* - Sum of total phenolic compounds may not exceed 1 ppm. B - The analyte was also detected in a blank.

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled. M - Matrix effect present

R - The data is unsable due to deficiences in the ability to analyze the sample and meet QC criteria.
U - The nalyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL. However the quantitation is an approximation.

Table 3-2 Tank Farms 1 and 3 Detected Analytical Results (continued)

	NVSDEC						Tank Farnes 1 and 3 Detected Analytical Results (continued) Decommissioned Monitoring Webls (November 2004).															
ample ID			TF3M11810AA		TF3M11913AA				TF3M119R12NA							TF3M12110AA			TF3M121R12MA			
	Standards	12/13/01	2/27/02	12/13/01	2/27/02	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006	12/13/01	2/27/02		/20/01	2/27/02	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006
ample Depth (ft)	(µg/L)	10	10	13	13	12	12	13	12	12	12	11	11		11	11	12	12	12	12	12	12
OCs (ug/L)																						
1-dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U		U	0.23 F	U	U	U	U	U	U
2,4-trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	4.1	U		U	1.4	U	U	U	U	U	U
3,5-trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	1.2	U		U	0.54	U	U	U	U	U	U
butylbenzene	5	0.6 F	0.54	1.2	0.41 F	1.4 F	U	U	0.5 F 🔶	0.5 F 🔶	U	0.3 F	U		U	0.43 F	U	U	U	U	U	U
hylbenzene	5	U	U	U	U	U	U	U	U	U	U	0.56 F	U		U	U	U	U	U	U	U	U
opropylbenzene	5	6.8	0.21 F	2.3	8.5	6.3	U	U	U	U	U	U	U		U	U	U	U	U	U	U	U
-butylbenzene	5	U	U	0.53 F	U	U	U	U	U	U	U	U	U		U	U	U	U	U	U	U	U
ec-butylbenzene	5	0.36 F	0.28 F	1.4	0.43 F	1.9 F	U	U	U	U	U	U	U		U	U	U	U	U	U	U	U
propylbenzene	5	0.33 F	U	0.24 F	0.57	U	U	U	U	U	U	0.24 F	U		U	U	U	U	U	U	U	U
aphthalene	10	U	U	U	U	U	U	U	U	0.2 F 🔶	U	U	U		U	U	U	U	U	U	U	U
cetone	50	U	U	U	U	U	U	U	30 B	U	U	U	U		U	U	5.1 F	U	U	U	U	U
alorobenzene	5	U	U	U	U	1.8 F	U	U	U	U	U	U	U		U	U	U	U	U	U	U	U
hloroethane	5	U	U	U	U	U	U	U	U	0.7 F	U	U	U		U	U	U	U	U	U	U	U
hloroform	5	Ŭ	Ŭ	N U	Ŭ N	Ŭ	Ŭ	Ŭ	Ŭ	U	Ŭ	Ŭ	0.29 F		.49 F	Ŭ	0.29 F	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ
is-1,2-dichloroethylene	5	Ŭ	Ŭ	8 U	U S	2.9 F	Ŭ	Ũ	Ŭ	Ŭ	Ŭ	Ŭ	U		U	Ŭ	e u	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ
luene	5	Ű	Ŭ	A U	U 4	U	Ŭ	U	U	U	U	3.8			U		4 U	U	U	U	U	U
ichloroethylene	5	U	0.44 F	0.31 F	U	U	Ŭ	U	0.38 F	0.26 F	1.2	U	2.8		2.5	U	2.6	1.8	1.6	1.5	1.6	1.2
-xylene	5	Ŭ	U	W U	U 2	U	U	U	U.38 F	U.201	U	2.1	Ш	Z	U.5	U	Z U	U.	II.	U	U	U
i,p,-xylene	5	Ŭ	Ŭ	<u>a</u> <u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	Ŭ ŝ	U	Ŭ	Ŭ	Ŭ	Ŭ	Ŭ	3.8	U :		U	0.46 F		U	Ŭ	Ŭ	Ŭ	U
otal VOCs	2	8.09	1.47	5.98	9.91	14.3	0	0	Ŭ	1.67	1.2	16.1	3.09		2.99	3.06	7.99	1.8	1.6	1.5	1.6	1.2
VOCs (µg/L)		0.07	1.47	012	2.21	14.5	0	0	U	1.07	1.2	10.1	3.07		£.//	5.00		1.0	1.0	1.0	1.0	1.2
-nitrophenol		IJ	U	Ξ U	U 2	U	U	U	U	U	U	U	U ·	š	U	U	N/S	N/S	U	U	U	U
nthracene	50	U	U	0 7J	U 8	N/S	N/S	U	U	U	U	U	U		U	U	N/S	N/S	U	U	U	U
zenapthene	20	U	U	- 1 U	U	U	U	U	U	U	0.56	U	U		U	U	P N/S	N/S	U	U	U	U
is (2-chloroisopropyl) ether	1.0	U	U		U	N/S	N/S	U	U	U	0.50	U	U		U	U	N/S	N/S	U	U	U	U
is (2-ethylhexyl)phthalate	5	U	2	# 8J	5 8	N/S	N/S	U	U	U	0.82	U	U		U	U	# N/S	N/S	U	U	U	0.824
i-n-octyl phthalate		8	2 U			N/S	N/S	U	U	U	0.82	U	U .		U	U	N/S	N/S	U	U	U	0.824 U
r-n-octyr phinalate	0.002	Ů	U	-1 8J	3	N/S	N/S	U	U	U	U	U	U :	2	U	U	N/S	N/S	U	U	U	U
enzo(a)anthracene	0.002	U	U	8J	3	N/S	N/S	U	U	U	U	U	U		U			N/S	U	U	U	U
enzo(a)antniacene enzo(b)fluoranthene	0.002	U	U	7 7 7 7	<u> </u>	N/S	N/S	U	U	U	U	U	U ;		U	U	N/S N/S	N/S	U	U	U	U
	0.002	U			0			U	U	U	U	U	U		U	U	N/S		U	U	U	U
enzo(a)pyrene	50	U	U	6 J 8 J	8	N/S N/S	N/S N/S	U	U	0.6 F	0.7	U	U		U	U	N/S	N/S N/S	U	U	U	U
ouranthene	50	U		7 J	8 U	N/S	N/S	U		0.6 F	0.7	U	U		U		N/S	N/S	U	U	U	U
henanthrene		U	U					U	U	0.7 F	0.66		U		U	U			U	U	U	U
yrene	50		U	7 J	8 26	N/S N/S	N/S N/S			0.7F	4.12	U				U	N/S	N/S N/S				0.57
otal SVOCs		8	2	0	26	N/S	N/S	0	0	1.5	4.12	0	0		0	0	N/S	N/S	0	0	0	0.57
Vet Chemistry Data (mg/L)																						
itrate	10000	N/S	0.16	N/S	U	U	U	U	N/S	N/S	N/S	N/S	0.37		N/S	0.054	1.2	1.4	1	N/S	N/S	N/S
ulfate	250000	N/S	U	N/S	U	U	N/S	N/S	N/S	N/S	N/S	N/S	U		N/S	U	N/S	N/S	N/S	N/S	N/S	N/S
ılfide		N/S		N/S		U	N/S	N/S	N/S	N/S	N/S	N/S	U		N/S	U	N/S	N/S	N/S	N/S	N/S	N/S
tal alkalinity		N/S	90.8	N/S	176	127	97.7	163	N/S	159	210	N/S	233	1	N/S	232	156	202	144	N/S	203	0
ield Parameters																						
issolved iron (mg/L)		N/A	0	N/A	2	0	1.2	2.5	0	0.7	0.6	N/A	0		N/A	0	0	0	0	0	0.8	0
1		6.79	6.61	7.64	7.12	7.14	6.74	7.65	6.82	7.33	6.52	7.76	7.13		7.71	7.12	6.95	6.61	7.25	7.34	7.34	7.06
pecific conductance (µS/cm)		242	1520	815	794	0.14 *	0.18 *	0.2 *	149	0.133 *	0.120 *	1030	601		819	743	0.13 *	0.13 *	97.5	154	0.134 *	0.13 *
mperature (degrees C)		14.62	7.4	14.88	11.3	16	13.9	10.1	11.1	14.1	16.8	15.5	12		6.07	12.6	15.7	14	11.6	12.3	17.6	18.4
issolved oxygen (mg/L)		6.71	4.44	6.09	3.34	5.6	6.9	4.13	3.7	9.19	1.65	3.6	3.2		5.62	4.02	4.78	8.29	4.31	5.78	5.17	0
xidation reduction potential (mV)		-79	-40	-87	-94	47	-95	-46	299	-53	-22	-62	-94	1	179	83	101	64	128	290	63	29
otes:																						
- Groundwater Standards are from Technical	al and Operation	al Guidance Series	(TOGS) 1.1.1, June 1	998. Amended in April	2000																	
- specific conductance is measured in S/m.																						
Indidcates no NYS GA Groundwater Standa	lard																					
- Ananlyte was positively identified but the		erical value is belo	w the reporting limit																			
The analyte was positively identified, the q				sample																		
/A - Analyte was not analyzed during sampli																						
/S- Analyte was not sampled.	-																					
<ul> <li>The analyte was analyzed for, but not dete</li> </ul>	ected. The asso	ciated numerical va	alue is at or below the	method detection limit.																		

Table 3-2 Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC									TF3MW-123								
Sample ID	GW	TF3M12313AA	TF3M12313AA	TF3M12313BB	TF3M12313CA	TF3M12313DA	TF3M12313EA	TF3M12313FA	TF3M12313GB	TF3M12313HB	TF3M12313IB	TF3MW12313JB	TF3M12313KB	TF3M12313LB	TF3M12313MA	TF3M12313NB	TF3M12314OA	TF3M12314PA
Date of Collection	Standards <sup>1</sup>	12/13/01	2/26/02	6/19/02	9/13/02	12/12/02	3/12/03	6/23/03	9/12/2003	12/12/2003	3/18/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006
Sample Depth (ft)	(µg/L)	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	14	14
VOCs (ug/L)																		
1,2,3-trichlorobenzene	5	U	U	U	0.9 M	U	U	U	U	U	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	5	350 ♦	88 🔶	46 ♦	78 M♦	28	31 ♦	60	72	37	54	45	66	28	19	8.1	5.5 ♦	22.5
1,1,2-trichloroethylene	5	U	U	U	2.6	U	U	U	U	U	U	U	U	U	U	U	U	U
1,3,5-trimethylbenzene	5	26 ♦	10	6.1 ♦	12	4	4.1	8.9	9.9	4.9	7.1	7	10	4.4	2.7 F	1.5 F	0.88 F	3.88
1,2-dibromo-3-chloropropane	0.04	5.6	U	1.4 ♦	U	.5 UJ	0.5 UJ	U	U	U	U	U	U	U	U	U	U	U
1,1-dichloroethene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.37 F	U
benzene	1	0.38 F	0.32 F	U	U	0.25 F	U	U	U	U	U	U	U	U	U	U	U	U
bromomethane	5	U	U	U	U	U	0.38 UJ	U	U	U	U	U	U	U	U	U	U	U
chloroethane	5	U	U	U	U	0.29 F	U	U	U	U	U	U	U	U	U	0.72 F	0.69 F	U
chloromethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.68 F	U
t-butylbenzene	5	8.2 ♦	2.5	1.4	3.9 M	1.3	1.2 ♦	U	2.2	U	U	1.5 F	2.1 F	1 F	0.96 F	0.89 F	0.77 F	1.42
isopropylbenzene	5	480 ♦	140 ♦	73 ♦	130 M♦	53	62 J 🔶	120	130	63	110	85	120	56	51	62	41 J	67.9
n-butylbenzene	5	20 ♦	4.7	2.1 ♦	U	U	U	U	5.2	U	U	1.4 F	1.9 F	0.9 F	1.2 F	U	U	1.44
ethylbenzene	5	2.4	1.7	0.95 ♦	U	0.33 F	U	U	U	U	U	U	U	U	U	U	U	0.17
methylene chloride	5	U	U	U	U	U	U	6.5 B	U	3 B	U	U	U	U	U	U	U	U
n-propylbenzene	5	63 ♦	16 ♦	10 ♦	15	U	6.4 J ♦	11	U	U	U	11	U	U	6.2	U	U	U
p-isopropyltoluene	5	21 ♦	6.4	3 ♦	5 ♦	2.4	1.9 ♦	U	4.6	1.2	U	2.6 F	3.7 F	1.6 F	1.4 F	0.84 F	0.46 F	1.82
sec-butylbenzene	5	22 ♦	6.1	2.7 ♦	5 ♦	2.5	2 ♦	2.7	4.8	1.4	U	2.8 F	4.3	2 F	1.6 F	1.2 F	0.79 F	1.52
n-propylbenzene	5	U	23	U	26	9.1	U	U	16	7	11	11	15	7.1	6.2	7.1	4.1 J	7.35
naphthalene	10	U	U	2.2 ♦	3.4	U	U	U	U	U	U	U	U	U	U	U	U	U
toluene	5	1.1	0.27 F	U	2	U	U	U	U	U	U	U	1 F	U	U	U	U	U
m,p-xylene	5	22 ♦	7	2.5 ♦	4.3	1.8	1.2	U	U	1.3 F	U	1.4 F	1.4 F	U	U	U	U	0.34
Total VOCs		1021.3	305.99	151.35	288.1	102.97	109.8	209.1	244.7	118.8	182.1	168.7	225.4	101	84.06	82.35	54.19	107.03
SVOCs (µg/L)																		
								not sample	ed at this location									
Wet Chemistry Data (mg/L)																		
nitrate	10000	N/A	0.8	U	U	U	0.063	U	U	0.29	0.06	U	0.12	0.04 F	U	N/S	N/S	N/S
sulfate	250000	N/A	U	11	4.7 B	4	9.3 B	25.5	17	6.3	4.4	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide		N/A	U	U	U	U	U	U	U	U	0.06 F	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity		N/A	202	156	204	150	160	159	167	352	222	202	186	205	188	N/S	156	200
Field Parameters																		
dissolved iron (mg/L)		N/A	4	N/A	3	2.8	1.9	2.8	2.2	NA	1.8	1	3	N/A	1.4	2.4	3.6	3
pH		7.75	6.94	7.89	7.14	6.73	9.9	7.03	7.16	8.76	7.12	6.99	6.57	6.6	7.81	7.46	7.26	7.33
specific conductance (µS/cm)		721	751	686	615	594	531	590	600	830	64	77	90	88	98	94.3	74.3	81
temperature (degrees C)		12.48	9.1	10.8	14.4	11.8	9	11.56	13.38	13.82	8.5	11.1	14.2	11.9	8.9	9.4	11.5	14.4
dissolved oxygen (mg/L)		3.98	3.29	0.86	1.05	4.02	4.24	3.89	4.8	4.58	2.3	4.8	7.32	8.02	4.99	4.36	6.08	3.09
oxidation reduction potential (mV)		-99	-84	-118	-19	-65	-109	-130	-128	-113	-67	-84	-71	-111	-90	176	-99	-108

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

Croundwater Standards are from Technical and Operational Guidance Series (TGGS) 1.1.1, June 1998. Amended in April 2000
 When the guidance value or standard is below the method detection limit, ahiving the method detection limit is considered acceptable for meeting the guidance value or standard
 Concentrations are from duplicate sample, which was greater than the original sample.
 Indideases no XYS GA Groundwater Standard
 The analyte was also detected in a blank.
 F - Analyte was positively identified but the associated numerical value is below the reporting limit

J - Analyte was positively identified, quantitation is an approximation

M - Matrix effect present N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

R - The data is unusable due to deficiences in the ability to analyze the sample and meet QC criteria.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit. UJ - The analyte was not detected above the RL, however the quantitation is an approximation.

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Monitoring Well ID	NYSDEC					TF3	MW-124				
Sample ID	GW	TF3M12413AA	TF3M12413AA	TF3M12413BB	TF3M12414CA	TF3M12412DA	TF3M12413EA	TF3M12413HA	TF3M12413GB	TF3M12413HB	TF3M12413IB
Date of Collection	Standards <sup>1</sup>	12/13/01	2/25/02	6/18/02	9/13/02	12/12/2002	3/12/2003	6/19/2003	9/12/2003	12/12/2003	3/17/2004
Sample Depth (ft)	(µg/L)	13	13	13	14	12	13	13	13	13	13
VOCs (ug/L)											
1,2-dibromo-3-chloropropane	0.04	U	U	U	U	U	0.25 UJ	U	U	U	U
acetone	50	U	U	U	U	U	U	U	U	4.4 F	3.3 F
benzene	1	0.76 F	0.76	0.43 F	0.5	U	U	U	U	U	U
1-chlorohexane		U	U	U	U	U	U	0.14 M	0.14 M	U	U
1,2,3-trichloropropane	5	U	U	U	U	U	U	0.21 M	U	U	U
1,2,4-trimethylbenzene	5	U	U	U	U	U	U	0.23 M	U	U	U
1,3,5-trimethylbenzene	5	U	U	U	U	U	U	0.25 M	U	U	U
chloromethane	5	U	U	U	U	0.22 F	U	U	U	U	U
t-butylbenzene	5	0.45 F	0.3 F	Ŭ	Ŭ	U	Ŭ	U	Ŭ	U	Ŭ
bromodichloromethane	50	U	U	U	Ŭ	U	U	0.11 M	U	U	U
bromomethane	5	U	U	U	U	U	0.19 UJ	U	0.13 M	U	U
isopropylbenzene	5	2.3	0.23 F	U	U	U	U	U	U	U	U
p - isopropyltoluene	5	0.21 F	U	U	U	U	U	U	U	U	U
sec - butylbenzene	5	0.47 F	U	U	U	U	U	U	U	U	U
m,p-xylene	5	U	U	U	U	U	U	0.34 M	U	U	U
2-hexanone		U	U	11	U	U	U	U	U	U	U
toluene	5	U	U	U	U	U	U	0.17 M	U	U	U
trichloroethylene	5	0.52 F	0.57	0.59	0.61	0.48 F	0.62 J	0.33 F	U	0.6 F	0.55 F
styrene	5	U	U	U	U	U	U	0.12 M	U	U	U
tetrachloroethylene	5	U	U	U	U	U	U	U	0.18 M	U	U
trichlorofluoromethane	5	U	U	U	U	U	U	U	0.14 M	U	U
Total VOCs		4.71	1.86	12.02	1.11	0.7	0.62	1.9	0.59	5 F	3.85 F
SVOCs (µg/L)											
2,4,5-trichlorophenol	1*	U	U	3 M	U	U	3 UJ	U	U	U	U
2,4,6-trichlorophenol	1*	U	U	4 M	U	U	4 UJ	U	U	U	U
2,4-dichlorophenol	1*	U	U	5 M	U	U	4 UJ	U	U	U	U
2,4-dinitrophenol	1*	U	U	12 M	UJ	U	11 UJ	U	U	U	U
4,6-dinitro-2-methylphenol	1*	Ŭ	U	16 M	U	Ŭ	15 UJ	U	Ŭ	U	Ŭ
4-nitrophenol	1*	Ŭ	U	4 M	U	Ŭ	3 UJ	U	Ŭ	U	Ŭ
benzoic acid		Ŭ	U	U	U	Ŭ	13 UJ	17 R	17 R	U	Ŭ
isophorone	50	Ū	Ũ	Ŭ	Ŭ	Ŭ	5 UJ	R	U	Ũ	Ũ
benzo(a)anthracene	1*	Ū	Ũ	Ŭ	Ŭ	Ŭ	2 UJ	3 M	Ŭ	Ũ	Ũ
Wet Chemistry Data (mg/L)		-		-		-			-		-
nitrate	10000	N/A	U	U	U	U	0.12	0.056	U	U	U
sulfate	250000	N/A	Ũ	27.9	22 B	24.3	28.8 B	198	35.5	114	33.1 M
sulfide		N/A	Ũ	U	U	U	U	U	U	U	0.049 M
total alkalinity		N/A	165	132	160	116	150	129	148	154	167
Field Parameters											
dissolved iron (mg/L)		N/A	1.4	N/A	1.5	1.3	0.2	2.5	2	0.6	3.2
nH	1 1	7.98	7.31	7.96	7.12	6.79	10.15	7.17	7.29	7.2	7.19
specific conductance (µS/cm)		867	581	799	856	658	526	700	937	880	240
temperature (degrees C)		13.68	10.4	11.6	15.6	13.3	9.6	11.52	14.95	14.1	8.63
dissolved oxygen (mg/L)		3.88	3.35	0.63	1.56	3.98	4.61	3.9	5.52	8.17	2.6
oxidation reduction potential (mV)		-73	-90	-129	4	-39	-107	-110	-128	-106	-10

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

2 - When the guidance value or standard is below the method detection limit, ahieving the method detection limit is considered acceptable

for meeting the guidance value or standard

\* - Sum of total phenolic compounds may not exceed 1 ppm.

+ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indidcates no NYS GA Groundwater Standard

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

M - Matrix effect present

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL, however the quantitation is an approximation.

r		Tank Fa	rms I and 3 Dete	cted Analytical I		l)			
Monitoring Well ID	NYSDEC			1	TF3MW-125				
Sample ID	GW				TF3M12513DA		TF3M12513FA	TF3M12514GB	
Date of Collection	Standards	2/12/02	6/19/02	9/13/02	12/20/2002	3/12/2003	6/23/2003	9/2/2003	
Sample Depth (ft)	(µg/L)	13	13	14	13	13	13	14	
VOCs (ug/L)									
1,2-dichloropropane	1	U	U	U	U	.32 UJ	U	U	
1,2,4-trimethylbenzene	5	81 ♦	48 ♦	56 ♦	29	28	23	36	
1,3,5-trimethylbenzene	5	33 ♦	19	21 ♦	14	10 M	8.3	13	
benzene	1	0.36 F	U	U	U	0.30 UJ	U	U	
n-butylbenzene	5	U	2.3	3 J	U	0.44 UJ	U	U	
sec-butylbenzene	5	2.7 ♦	2	2.6 ♦	1.4	1.8 M	U	U	
t-butylbenzene	5	1.6 ♦	0.98	1.3 ♦	0.9	0.92 J	U	U	
chloroethane	5	U	U	0.63	U	0.32 UJ	U	U	
chloromethane	5	U	U	0.66	U	0.28 UJ	U	U	
ethylbenzene	5	94 ♦	82 ♦	90 ♦	53	61 M	51	62	2003
isopropylbenzene	5	80 ♦	62 ♦	85 ♦	40	50 M	37	43	
p-isopropyltoluene	5	4.2 ♦	2.9 ♦	3.6	U	2.1 M	U	U	er
methylene chloride	5	U	U	U	U	0.5	7 B	8.5	qu
methyl ethyl ketone	5	U	U	U	U	3.1 UJ	U	U	pte
n-propylbenzene	5	14	15	18 ♦	9.5	11 M	7.8	11	Sel
naphthalene	10	U	11	14 ♦	7.8	10 J	6.8	9.1	в.
toluene	5	1.1 ♦	0.86	1.1 ♦	U	0.54 M	U	U	led
o-xylene	5	2.5	1.1	1.4 ♦	0.87	0.78 M	U	U	ion
m,p-xylene	5	89 ♦	47 ♦	42 ♦	26	28 J	26	37	issi
Total VOCs		403.46	294.14	337.29	182.47	204.64	159.9	219.6	NO.
SVOCs (µg/L)									dec
bis-(2-ethylhexyl) phthalate	5	5 F	U	U	U	U	U	U	ell
benzoic acid		U	U	U	U	U	17 R	18 R	×
naphthalene	10	4 F	U	U	6 F	6 F	4 F	6 F	ĨĮ.
phenanthrene	50	U	U	U	U	3 F	U	U	tor
pyrene	50	3 F	U	U	U	U	U	U	Monitoring well decomissioned in September
2-methylnaphthalene		U	U	U	U	5 F	2 F	2 F	Σ
bis (2-etylhexyl) phthalate	5	U	U	U	U	4 M	U	U	
Total SVOCs		12	0	0	6	18	6	8	
Wet Chemistry Data (mg/L)									
nitrate	10000	U	U	U	N/A	U	U	U	
sulfate	250000	U	5.4	5.2 B	2.7	10.9 B	39.7	4.3	
sulfide		U	U	U	U	1 M	U	U	
total alkalinity		106	97.6	137	96.3	143	116	116	
Field Parameters									
dissolved iron (mg/L)		3.5	N/A	5.6	4.4	2.8	3.5	N/S	
рН		6.64	6.55	6.9	6.87	6.84	6.8	N/S	
specific conductance (µS/cm)		380	403	422	481	391	228	N/S	
temperature (degrees C)		9.6	9.9	13	12.8	9.38	9.99	N/S	
dissolved oxygen (mg/L)		4.90	3.87	1.09	2.88	4.51	3.56	N/S	
oxidation reduction potential (mV)		-50	-83	-22	-112	-3	-132	N/S	

Table 3-2

Tank Farms 1 and 3 Detected Analytical Results (continued)

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

2 - When the guidance value or standard is below the method detection limit, ahieving the method detection limit is considered acceptable

for meeting the guidance value or standard

+ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indidcates no NYS GA Groundwater Standard

B - The analyte was also detected in a blank.

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

J - Analyte was positively identified, quantitation is an approximation

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL. However the quantitation is an approximation.

#### Table 3-2 Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC								TF3MV								
Sample ID	GW	TF3M112613AA	TF3M112613BB	TF3M12614CA	TF3M12612DA	TF3M12613EA	TF3M12613FA	TF3M12614GB	TF3M12612HB		TF3M12613JB	TF3M12613KB	TF3M12613LB		TF3M12613NA	TF3M12614OA	
Date of Collection	Standards <sup>1</sup>	2/12/02	6/19/02	9/13/02	12/20/2002	3/12/03	6/20/03	9/12/2003	12/12/2003	3/18/2004	6/17/2004	9/13/2004	1/3/2005	3/29/2005	3/28/2006	6/20/2006	9/26/2006
Sample Depth (ft)	(µg/L)	13	13	14	12	13	13	14	12	13	13	13	13	13	13	14	14
VOCs (ug/L)																	
1,2-dichloropropane	1	U	U	0.42 F	U	U	U	U	U	U	U	U	U	U	U	U	U
1-2-dichloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	0.26 F	U	U	U
1,2,4-trimethylbenzene	5	0.55	U	1.6	U	U	U	U	U	U	0.39 F	U	U	U	U	U	U
1,3,5-trimethylbenzene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
acetone	50	U	U	U	U	U	U	U	5.7 F	U	U	U	U	U	U	U	U
benzene	1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-butylbenzene	5	7.8	4.7	U	U	U	U	U	U	U	U	U	U	U	U	U	U
sec-butylbenzene	5	11	6.5	6	2.4	2.4	1.9 J ♦	1.8	1.1	1.4	2	1.2	0.77 F	U	2.4	4.4	5.33
Trichloroethylene		U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
t-butylbenzene	5	2.5	1.5	1.5	1.4	0.88	0.6 F 🔶	1.2	1.4	1.1	1.6	1.5	0.96 F	0.87 F	1.4	2.4	1.58
Tetrachloroethylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroform	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
chloroethane	5	U	U	U	U	U	U	U	U	U	U	U	U	0.29 F	U	0.62 F	U
chloromethane	5	U	U	U	0.26 F	U	U	U	U	U	U	U	U	0.33 F	U	0.69 F	U
ethylbenzene	5	U	0.37 F	U	U	U	U	U	U	U	U	U	U	U	U	U	U
isopropylbenzene	5	11	4.2	8.1	3.1	U	0.35 F 🔶	1.6	1	1.1	3	0.39 F	1	0.86 F	0.31 F	9.6	6.28
p-isopropyltoluene	5	1	0.38 F	0.31 F	0.3 F	U	U	U	U	2.5	U	3.2	U	U	U	U	U
methylene chloride	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
methyl ethyl ketone	5	U	U	U	U	1.6 UJ	U	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5	18	2.9	6.9	1	0.99	0.33 F 🔶	0.77 F	0.49 F	0.83 F	0.8 F	U	U	0.25 F	U	1.4	5.81
naphthalene	10	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0.22 F	U
toluene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
o-xylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
m,p-xylene	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
Total VOCs		51.85	20.55	24.41	8.46	4.27	3.18	5.37	9.69	6.93	7.79	6.29	2.73	2.86	4.11	19.33	19
SVOCs (µg/L)																	
benzoic acid		U	U	U	U	U	17 R	17 R	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S
2-methylnaphthalene		12	U	10	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S
Wet Chemistry Data (mg/L)																	
nitrate	10000	U	U	U	N/A	U	U	U	U	0.58	0.18	0.065	0.67	U	N/S	N/S	N/S
sulfate	250000	U	13.8	4.9 B	8.9	16.8 B	50	9.2	35.4	22.7	N/S	N/S	N/S	N/S	N/S	N/S	N/S
sulfide		U	U	U	U	U	U	U	U	U	N/S	N/S	N/S	N/S	N/S	N/S	N/S
total alkalinity		267	220	233	182	233	241	243	400	308	275	218	271	243	N/S	217	260
Field Parameters																	
dissolved iron (mg/L)		3.5	N/A	5.4	6	3.4	4.4	2.5	1.8	2	3.2	4.8	2.3	2.8	3.5	4.8	2.6
pH		7.12	6.64	6.74	6.94	6.9	7.15	7.17	6.7	6.95	7.11	6.88	7.48	7.65	7.18	7.5	7.28
specific conductance (µS/cm)		451	479	660	590	509	414	581	686	68	58	59	65.8	70.4	99	88	87
temperature (degrees C)		10	9.8	13.2	12.7	9.6	10.11	13.32	12.52	8.5	9.9	13.4	11.3	9.3	8.77	10.4	14.4
dissolved oxygen (mg/L)		5.18	3.51	1.13	2.18	4.5	3.75	3.54	0.9	4.8	2.9	6.08	8.82	4.44	3.33	2.92	3
oxidation reduction potential (mV)		-84	-91	-8	-118	-30	-125	-152	-122	-70	-104	-100	-10	-102	-122	-57	-121

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

2 - When the guidance value or standard is below the method detection limit, ahieving the method detection limit is considered acceptable

for meeting the guidance value or standard

+ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indidcates no NYS GA Groundwater Standard B - The analyte was also detected in a blank.

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

J - Analyte was positively identified, quantitation is an approximation

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL. However the quantitation is an approximation.

#### Table 3-2 Tank Farms 1 and 3 Detected Analytical Results (continued)

Sampe Date of all of the second se	Monitoring Well ID	NYSDEC																
<table-container>          bard         &lt;</table-container>			TF3M12713A	ATF3M12713BB	FF3M12714CA	TF3M12712DA	TF3M12713EA	TF3M12713FA	TF3M12713GB			TF3M12713JB	TF3M12713KB	TF3M12713LB	TF3M12713MA	TF3M12713NA	TF3M12713OA	TF3M12713PA
VOX cup1         Image		Standards	2/12/02	6/19/02	9/13/02	12/20/2002	3/12/2003	6/20/2003	9/12/2003	12/12/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006
VOC ough         image	Sample Depth (ft)	(µg/L)	13	13	14	12	13	13	13	13	13	13	13	13	13	13	13	13
1.5.5       66.6       6.6       7.4       7.9       6.3       2.5       9.0       2.0       7.1       0.8.1F       1.3       U       2.9       9.2       U       U         hshythkrane       5       9       1.2       U       U       U       3.5       U       0.8       0.4F       0.4       0.4F       0.4       0.4F       0.4	VOCs (ug/L)																	
barran         1         2.6         0.94         5.7         1.3         0.54         2.2         5.2         2.1         2.9         4.2         3.3         2.2         0.97         1.7         1.4         3.05           bardylbezne         5         1.2         2.1         1.5         2.7         1.5         1.3         6.7         5.1         2.7         1.7         0.44         0.45 <td< td=""><td>1,2,4-trimethylbenzene</td><td>5</td><td>180 ♦</td><td>16</td><td>190 ♦</td><td>14</td><td>15</td><td>5.6</td><td>56 J</td><td>56</td><td>21</td><td>72</td><td>43</td><td>70</td><td>6.2</td><td>28</td><td>15</td><td>101</td></td<>	1,2,4-trimethylbenzene	5	180 ♦	16	190 ♦	14	15	5.6	56 J	56	21	72	43	70	6.2	28	15	101
shuphbarme         5         9         1.2         U         U         U         0.87F         0.64F         0.64F         0.49F         0.1F         0.26F         U         1.5           schuphbarme         5         1.7         0.24F         1.7+         0.34F         U         U         0.87F         0.26F         0.87F         U	1,3,5-trimethylbenzene	5	66 ♦	6.6	74 ♦	7.9	6.3	2.5	30	20	7.1	0.83 F	13	U	2.9	9.2	U	U
sec-barylbezone         5         12         21         15         27         13         6.7         51         27         32         27         1.7F         1.2         0.87F         1.4         37.9           chloresthane         5         U         U         0.34F         U	benzene	1	2.6	0.94	5.7	1.3	0.54	2.2	5.2	2.1	2.9	4.2	3.3	2.2	0.97	1.7	1.4	3.05
	n-butylbenzene	5	9	1.2	U	U	U	U	3.5	U	U	0.87 F	0.64 F	0.49 F	0.41 F	0.26 F	U	1.56
	sec-butylbenzene	5	12	2.1	15 ♦	2.7	1.5	1.3	6.7	5.1	2.7	3.2	2.7	1.7 F	1.2	0.87 F	1.4	3.7 ♦
shorewhane         5         U         U         0.47F         U         ATA           disproylhence         5         14         13         11         12         0.56         U         2.5         1.7         0.48F         1.17         0.89F         0.74F         0.34F         0.60F         0.66F         3.9         0.67         0.67         0.67         0.67         0.67         0.67         0.66F         0.99         2.55         0.7         0.88F         0.77         0.9         11         10         3.9         6.5         9.8         2.75         0.8         2.25         10         U         U         U         U         U         0.26         7.7         19         11         10         3.9         6.5         9.8         2.55         12         1	t-butylbenzene	5	1.7	0.24 F	1.7 ♦	0.34 F	U	U	0.87 F	0.52 F	0.26 F	0.87 F	U	U	U	U	U	U
shylemane         5         81         15         120 B         20         35         12         41 J         47         25         50         26         30         52         16         17         478           psoppolpuzere         5         37         5.9         67+         8.7         7.6         3.1         24         18         8.6         18         10         10         3.6         6.5         9.9         255           pisopophouzer         5         14         1.3         11         1.2         0.56         U         2.5         1.7         0.48 F         1.7 F         0.89 F         0.47 F         0.44 F         0.47 F         0.46 F         3.9           pipophouzer         5         4.8         7.3         8.0         9.6         7.1         3.1         2.8         2.0         7.7         19         11         10         3.9         6.5         9.8         2.75         pipophouzer         5.4         5.4         7.4         8.5         2.2         2.2         10         8.4         1.4         2.4         2.7         11         8.3         31.6           pipophouzer         5         4.5         7.4 <t< td=""><td>chloroethane</td><td>5</td><td>U</td><td>U</td><td>0.44 F</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td><td>U</td></t<>	chloroethane	5	U	U	0.44 F	U	U	U	U	U	U	U	U	U	U	U	U	U
	chloromethane	5	U	U	0.47 F	U	U	U	U	U	U	U	U	U	U	U	0.22 F	U
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	ethylbenzene	5	81	15	120 B	20	35	12	41 J	47	25	50	26	30	5.2	16	17	47.8
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	isopropylbenzene	5	37	5.9	67 ♦	8.7	7.6	3.1	24		8.6	18	10	10	3.6	6.5	9.9	25.5
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	p-isopropyltoluene	5	14	1.3	11	1.2	0.56	U	2.5	1.7	0.48 F	1.7 F	0.89 F	0.74 F	0.34 F	0.60 F	0.66 F	3.9 ♦
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	methyl ethyl ketone	5	U	U	U	U	1.6 UJ	U	U	U	U	U	U	U	U	U	U	U
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	n-propylbenzene	5	48	7.3	80 ♦	9.6	7.1	3.1	28	20	7.7	19	11	10	3.9	6.5	9.8	27.5
np-sylene         5         45         7         49         7,7         20         4.6         45         40         18         41         24         25         2.7         11         8.3         31.6           methylene chloride         5         U         U         U         U         U         U         U         U         0.8F         U         2.2         0.53F         U		10				7.6 J		2.2		19	8.2	19	12	12	2.6		7.9 B	25.8
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	trichloroethylene	5	0.54	0.44 F	0.26 F	0.49 F	0.43 F	U	0.23 F	U	U	U	U	U	U	0.28 F	U	
Intal VOCs         451.84         62.12         659.77         73.83         82.53         36.6         220         230.22         101.94         230.67         147.06         162.13         30.02         77.11         71.5         271.41           SVOCs (ggL)		5	45	7	49	7.7	20	4.6	45	40	18	41		25	2.7	11	8.3	31.6
SVOCs (ugL)         MCL <sup>2</sup> Image: March and the state of the		5	U			U		U			U	2.2	0.53 F	U	U			U
2-methylnaphthalene          35         23         140         9F         8F         3F         9F         2F         U         NS         NS         NS         NS         NS         NS         NS           Wet Chemistry Data (mg/L)         0         0         0         0         0         0         0         0         0         0         NS         NS         NS         NS         NS           uitrate         10000         0.11         U         U         NA         U         0.055         U         0.15         0.83         0.36         0.13         0.36         0.24         NS         NS         NS         NS         suffac           sulfate         250000         U         24.8         14.8         11.5         10.6 B         14.2         21         21.6         24.8         NS         NS <td></td> <td></td> <td>451.84</td> <td>62.12</td> <td>659.77</td> <td>73.83</td> <td>82.53</td> <td>36.6</td> <td>220</td> <td>230.22</td> <td>101.94</td> <td>230.67</td> <td>147.06</td> <td>162.13</td> <td>30.02</td> <td>77.11</td> <td>71.5</td> <td>271.41</td>			451.84	62.12	659.77	73.83	82.53	36.6	220	230.22	101.94	230.67	147.06	162.13	30.02	77.11	71.5	271.41
Wet Chemistry Data (mg/L)         N <td></td>																		
nitrate         10000         0.11         U         U         NA         U         0.055         U         0.15         0.83         0.36         0.13         0.36         0.24         NS         NS         NS           sulfate         25000         U         24.8         14.8         11.5         10.6 B         14.2         21         21.6         24.8         NS         NS <td< td=""><td></td><td></td><td>35</td><td>23</td><td>140</td><td>9 F</td><td>8 F</td><td>3 F</td><td>9 F</td><td>2 F</td><td>U</td><td>N/S</td><td>N/S</td><td>N/S</td><td>N/S</td><td>N/S</td><td>N/S</td><td>N/S</td></td<>			35	23	140	9 F	8 F	3 F	9 F	2 F	U	N/S						
salfate         25000         U         24.8         14.8         11.5         10.6 B         14.2         21         21.6         24.8         N/S	Wet Chemistry Data (mg/L)																	
sulfide         i         U         0.061 F         NS         NS <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																		
total alkalinity          284         218         268         214         252         253         231         389         233 B         341         246         314         298         N/S         217         380           Field Parameters <t< td=""><td></td><td>250000</td><td></td><td></td><td></td><td></td><td>10.6 B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		250000					10.6 B											
Field Parameters         NA         6.5         3.5         2         1.8         4         2.5         2         2.8         1         2         1.8         0.5         3.7         4.2           dissolved rion (mg/L)         3.2         N/A         6.5         3.5         2         1.8         4         2.5         2         2.8         1         2         1.8         0.5         3.7         4.2           pH         6.81         7.85         6.56         7.03         7.08         7.15         7.07         6.44         7.07         6.99         7.59         6.24         6.82         6.93         7.15         7.27           specific conductance (µS/cm)         524         752         839         566         451         353         517         543         76         81         68.8         71         74         95.6         112         82           temperature (dgrees C)         9.6         10.2         13.3         11.5         8.3         9.37         13.22         11.69         7.79         9.9         13.2         10.4         8.4         8.57         10.6         13.5           dissolved oxygen (mg/L)         3.55         0.8																		
			284	218	268	214	252	253	231	389	233 B	341	246	314	298	N/S	217	380
pH         6.81         7.85         6.56         7.03         7.08         7.15         7.07         6.44         7.07         6.99         7.59         6.24         6.82         6.93         7.15         7.27           specific conductance (μS/cm)         524         752         839         566         451         353         517         543         76         81         68.8         71         74         95.6         112         82           temperature (degrees C)         9.6         10.2         13.3         11.5         8.3         9.37         13.22         11.69         7.79         9.9         13.2         10.4         8.4         8.57         10.6         13.5           dissolved oxygen (mg/L)         3.55         0.8         1.2         2.66         4.88         4.02         6.28         3.41         4.1         2.9         4.59         8.11         6.87         5.22         2.86         5.15																		
specific conductance (µScm)         524         752         839         566         451         353         517         543         76         81         68.8         71         74         95.6         112         82           temperature (degrees C)         9.6         10.2         13.3         11.5         8.3         9.37         13.22         11.69         7.79         9.9         13.2         10.4         8.4         8.57         10.6         13.5           dissolved oxygen (mgL)         3.55         0.8         1.2         2.66         4.88         4.02         6.28         3.41         4.1         2.9         4.59         8.11         6.87         5.22         2.86         5.12	dissolved iron (mg/L)												1					
temperature         (degrees C)         9.6         10.2         13.3         11.5         8.3         9.37         13.22         11.69         7.79         9.9         13.2         10.4         8.4         8.57         10.6         13.5           dissolved oxygen         (mg/L)         3.55         0.8         1.2         2.66         4.88         4.02         6.28         3.41         4.1         2.9         4.59         8.11         6.87         5.22         2.86         5.12	pH											6.99						
dissolved oxygen (mg/L) 3.55 0.8 1.2 2.66 4.88 4.02 6.28 3.41 4.1 2.9 4.59 8.11 6.87 5.22 2.86 5.12																		
oxidation reduction potential (mV) -90 -111 6 -99 52 -89 -129 -73 -21 -70 -38 -51 75 -50 118 23					1.2									8.11			2.86	
	oxidation reduction potential (mV)		-90	-111	6	-99	52	-89	-129	-73	-21	-70	-38	-51	75	-50	118	23

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

Sum of total phenolic compounds may not exceed 1 ppm.
 Concentrations are from duplicate sample or dilution, which was greater than the original sample

-- Indidcates no NYS GA Groundwater Standard B - The analyte was also detected in a blank.

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

J - Analyte was positively identified, quantitation is an approximation

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

UJ - The analyte was not detected above the RL, however the quantitation is an approximation.

#### Table 3-2 Tank Farms 1 and 3 Detected Analytical Results (continued)

Monitoring Well ID	NYSDEC TF3MW-128																
Sample ID	GW	TF3M112813AA	TF3M112813BB	TF3M12814CA	TF3M12813DA	TF3M12814EA	TF3M12813FA	TF3M12814GB	TF3M12813HB	TF3M12813IB	TF3M12814JB	TF3M12813KB	TF3M12814LB	TF3M12814MA	TF3M12814NA	TF3M12814OA	TF3M12814PA
Date of Collection	Standards <sup>1</sup>	2/12/02	6/19/02	9/13/02	12/20/2002	3/12/2003	6/20/2003	9/11/2003	12/12/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/26/2006
Sample Depth (ft)	(µg/L)	13	13	14	13	14	13	14	13	13	14	13	14	14	14	14	14
VOCs (ug/L)																	
1,2,4-trimethylbenzene	5	140 ♦	98 ♦	53	33	31	60 ♦	44	24	16	32	20	8.3	25	17	8	4.25
1,3,5-trimethylbenzene	5	54	39 ♦	23	14	10	24 ♦	18	7.9	5.5	12	6.7	2.7	11	9.8	U	U
acetone	50	U	U	U	U	U	U	U	3.4 F	U	U	U	U	U	U	U	U
benzene	1	4.2	2.2 ♦	3.3	1.4	0.62	0.99 ♦	1.4	0.42 F	0.63	0.8	0.42 F	.25 F	1.2	0.9	0.85	0.33
n-butylbenzene	5	6	3.6	U	U	U	U	3	0.89 F	U	0.74 F	0.59 F	U	1.8	1.2	2	U
sec-butylbenzene	5	9.3	6.8	6	3.1	2	4.5 ♦	3.8	1.2	1.4	2.2	1.5	0.44 F	3.4	3.2	3.4	0.89
t-butylbenzene	5	1.2	0.75	0.8	0.42 F	0.24 F	0.3 F	0.47 F	U	U	0.3 F	U	U	0.34 F	0.38 F	0.4 F	U
chloroethane	5	U	U	0.29 F	U	U	U	U	U	U	U	U	U	U	U	U	U
chloromethane	5	U	U	0.31 F	U	U	U	U	U	U	U	U	U	U	U	U	U
ethylbenzene	5	98 ♦	58 ♦	54 B	19	12	22 ♦	21	9.1	10	15	8.6	5.5	17	14	14	6.5
isopropylbenzene	5	32	21 ♦	24	9.3	5.5	10 ♦	9.8	3.9	4.7	7.3	3.9	2.1	9	7.4	7.7	2.05
p-isopropyltoluene	5	40	17 ♦	19	9.8	3.9	5.6 ♦	3.8	1.2	2	5.3	2.4	0.75 F	5	2.1	2	0.86
methyl ethyl ketone	5	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U
n-propylbenzene	5	41	30 ♦	30	13	7.3	16 ♦	14	5.4	5.2	9.6	5.5	2.5	12	10	10	2.49
naphthalene	10	U	23	30	9.9 J	5.4	9	8.3	3.1	4.8	6.5	3.4	2.4	7.4	6.5	6.4 B	3.04
toluene	5	1 ♦	0.5	0.36 F	0.23 F	U	U	U	U	U	U	U	U	U	U	U	U
o-xylene	5	1.1	U	0.44 F	0.25 F	U	U	U	U	U	U	U	U	U	U	U	U
m,p-xylene	5	82	47 🔶	32 B	14	11	21 ♦	20	9.4	8.4	14	8	4.2	12	9.9	7.2	4.37
Total VOCs		427.8	346.85	276.5	127.4	88.96	173.39	147.57	69.91	58.63	105.74	61.01	29.14	105.14	82.38	61.95	24.78
SVOCs (µg/L) MCL <sup>2</sup>																	
2-methylnaphthalene		24	17	12	U	4 F	6 F	8 F	U	5 F	N/S						
benzo(a)anthracene	0.002	U	U	U	2 F	U	U	U	U	U	N/S						
acenaphthene	20	8 F	U	5 F	U	U	U	U	U	U	N/S						
anthracene	50	5 F	U	U	U	U	U	U	U	U	N/S						
benzoic acid		U	U	U	U	13 UJ	17 R	18 R	U	U	N/S						
dibenzofuran		4 F	U	U	U	U	U	U	U	U	N/S						
flouranthene	50	6 F	U	U	U	U	U	U	U	U	N/S						
flourene	50	6 F	U	U	U	U	U	U	U	U	N/S						
naphthalene	10	26	15	17	6 F	4 F	5 F	7 F	U	4 F	N/S						
phenanthrene	50	20	4 F	8 F	U	U	U	U	U	U	N/S						
pyrene	50	4 F	U	3	U	U	U	U	U	U	N/S						
Total SVOCs		103	32	45	8 F	8 F	11 F	15 F	0	9 F	N/S						
Wet Chemistry Data (mg/L)	10000				N7/4	0.52	0.00		0.0714	0.40			0.50		21/0	21.0	21/0
nitrate	10000	U	U	U	N/A	0.73	0.32	U	0.074	0.19	U	U	0.59	U	N/S	N/S	N/S
sulfate	250000	12.9	6.1	5.8	31.8	9.3 B	25.8	6.1	4	2.6	N/S						
sulfide		U	U	U	U	U	U	U	U	U	N/S						
total alkalinity		247	233	293	212	203	253	329	573	314 B	362	371	381	402	N/S	332	400
Field Parameters		0.5	27/4				1.4			0.4	0.5	0	0				
dissolved iron (mg/L)		0.7	N/A 7.74	3.2	1.6	0	1.6	0.4	0.2	0.4	0.5	0	0	0.8	0	0	0
pri		7.29		7.13	7.05	7.34	7.05	7.09	5.83	6.8	6.72	7.21	6.3	6.86	6.92	6.93	7.43
specific conductance (µS/cm)		377	457	612	609	338	609	500	659	75	75	76.5	73	71	91.3	84	70
temperature (degrees C)		9.7	9.9	13.4	11.2	6.72	11.2 4.27	12.05	10.83	7.92	9.8 5.3	13.4	10.6	7.5	8.89	10.7 4.47	13.5
dissolved oxygen (mg/L)		4.8	1.81	4.46	4.27	6.89		5.89	3.48	4.2		5.93	7.81		4.5		
oxidation reduction potential (mV)		-124	-90	-15	-79	162	-79	-61	246	91	-12	65	99	92	20	231	135

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

\* - Sum of total phenolic compounds may not exceed 1 ppm.

Concentrations are from duplicate sample or dilution, which was greater than the original sample
 Indicates no NYS GA Groundwater Standard
 B - The analyte was also detected in a blank.

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

J - Analyte was positively identified, quantitation is an approximation

N/A - Analyte was not analyzed during sampling

N/S- Analyte was not sampled.

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit. UJ - The analyte was not detected above the RL, however the quantitation is an approximation.

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			Tank Far	ms 1 and 3 Det	ected Analytical	Results (continu	ed)				1 450
Monitoring Well ID	NYSDEC					TF3MW-	129				
Sample ID	GW	TF3M12918AA	TF3M12918BB	<b>FF3M12915CA</b>	TF3M12917DA	TF3M12918EA	TF3M12918FA	TF3M12918GB	TF3M12918HB	TF3M12918IB	
Date of Collection	Standards <sup>1</sup>	2/12/02	6/19/02	9/13/02	12/20/2002	3/12/2003	6/20/03	9/12/03	12/12/2003	3/17/2004	
Sample Depth (ft)	(µg/L)	13	13	15	17	18	17	18	18	18	
VOCs (ug/L)											
1,1,1-trichloroethane	5	U	0.41 F	0.25 F	U	0.35 F	0.24 F	U	U	U	
1,3,5-trimethylbenzene	5	U	U	U	U	U	U	U	U	0.39 F	
acetone	50	U	U	U	U	U	U	U	4.4 F	U	
benzene	1	0.44 F	U	U	U	U	0.61	0.58	0.31 F	2.2	
chloroform	7	U	0.45 F	U	U	0.31 F	0.39 F	0.22 F	0.21 F	U	
sec - butylbenzene	5	0.21 F	U	U	U	U	U	U	U	U	
ethylbenzene	5	0.78	0.25 F	0.42 F	0.23 F	1.1	0.95 F	1.2	0.61 F	3.9	4
isopropylbenzene	5	1	0.29 F	0.34 F	U	1.3	0.65 F	0.67 F	0.3 F	4.5	200
n-propylbenzene	5	U	U	U	U	U	U	U	U	0.22 F	ch
naphthalene	10	U	U	U	UJ	0.21 F	U	U	U	U	lar
trichloroethylene	5	0.34 F	0.41 F	0.32 F	0.4 F	0.33 F	0.2 F	0.27 F	0.3 F	0.28 F	Ň
o-xylene	5	U	U	U	U	U	U	U	U	0.31 F	fteı
Total VOCs		2.77	1.81	1.33	0.63	3.6	3.04	2.94	6.13	11.8	Monitoring well not sampled after March 2004
SVOCs (µg/L)											ple
bis(2-ethylhexyl)phthalate	5	3 F	U	U	U	U	U	U	U	U	lm
benzoic acid		U	U	U	U	U	17 R	7 R	U	U	t s:
di-n-butyl phthalate	50	3 F	U	U	U	U	U	U	U	U	ou
flouranthene	50	23	4 F	4 F	5 F	4 F	U	U	U	U	/ell
phenanthrene	50	8 F	U	U	U	U	U	U	U	U	s ∞
pyrene	50	16	U	3 F	4 F	3 F	U	2 F	U	U	ui.
Total SVOCs		53	4 F	7 F	9 F	7 F	0	2 F	0	0	itoı
Wet Chemistry Data (mg/L)											lon
nitrate	10000	0.22	0.28	0.14	N/A	0.46	0.84	0.4	0.82	0.8	Z
sulfate	250000	U	14.7	17.6	9.3	14.2 B	24	12.6	23.6	18.3	
sulfide		U	U	U	U	U	U	U	U	U	
total alkalinity		216	208	223	149	202	235	221	324	175 B	
Field Parameters											
dissolved iron (mg/L)		0.3	N/A	0.2	0.4	0.2	0.02	0	0.6	0.5	
pH		7.17	7.59	6.75	7.39	9.09	7.39	7.37	6.83	7.17	
specific conductance (µS/cm)		563	478	537	512	439	293	480	584	61	
temperature (degrees C)		11	11	12.4	12.7	11.1	11.12	12.06	12.86	10.48	
dissolved oxygen (mg/L)		3.90	1.36	1.22	3.09	3.97	3.89	5.06	7.71	3.2	
oxidation reduction potential (mV)		-59	-75	29	-50	-73	-61	-102	-43	151	

 Table 3-2

 Tank Farms 1 and 3 Detected Analytical Results (continued)

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indidcates no NYS GA Groundwater Standard

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

N/A - Analyte was not analyzed during sampling

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	Tank Farms 1 and 3 Detected Analytical Results (continued)										
Monitoring Well ID	NYSDEC					TF3MW-					
Sample ID	GW				TF3M13016DA	TF3M13017EA			TF3M13017HB	TF3M13017IB	1
Date of Collection	Standards	2/12/02	6/19/02	9/13/02	12/20/2002	3/12/2003	6/23/2003	9/12/2003	12/12/2003	3/17/2004	1
Sample Depth (ft)	(µg/L)	16	16	16	16	17	17	17	17	17	1
VOCs (ug/L)											1
1,1,2-trichloroethane	1	1.1	U	U	U	U	U	U	U	U	1
1,2,4-trimethylbenzene	5	12	U	0.75	0.59	0.37 F	0.67 F	0.87 F	0.83 F	1.8	1
1,3,5-trimethylbenzene	5	2.5	U	U	U	U	0.37 F	0.74 F	0.89 F	U	1
bromodichloromethane	5	0.25 F	U	U	U	U	U	U	U	U	I
chloroethane	5	U	U	0.25 F	0.26 F	U	U	U	U	U	I
chloroform	7	0.25 F	U	U	U	U	U	U	U	U	4
sec - butylbenzene	5	0.61	U	1.2	0.21 F	U	U	0.65 F	0.39 F	0.48 F	50
ethylbenzene	5	1.7	0.74	0.98 B	1.3	0.68	0.41 F	3.8	3.3	1.7	-H
isopropylbenzene	5	2.4	0.23 F	1.2	1.4	0.46 F	0.72 F	1.8	2.5	2.3	ar
methylene chloride	5	U	U	U	U	0.53	U	U	U	U	ž
p-isopropyltoluene	5	0.45 F	U	0.49 F	U	U	U	U	U	U	fter
n-propylbenzene	5	1.3	U	1.4	0.78	0.44 F	0.34 F	2.4	2	2.1	d ai
naphthalene	10	U	0.53 F	0.61 F	1.9	0.47 F	1.7	0.98 F	3	1	ble
o-xylene	5	1.3	0.26 F	U	0.47 F	U	U	0.48 F	0.55	0.38 F	Ē
m,p-xylene	5	1.5	0.47 F	U	0.38 F	U	U	1.4 F	1.1 F	0.68 F	t s:
Total VOCs		25.36	2.23	6.88	7.29	2.95	4.21	13.12	14.56	48.78	ou
SVOCs (µg/L)											Monitoring well not sampled after March 2004
bis(2-ethylhexyl)phthalate	5	U	U	2 F ♦	U	U	U	U	U	U	> ∞
benzoic acid		U	U	U	U	U	17 R	7 R	U	U	.E
Wet Chemistry Data (mg/L)											ito
nitrate	10000	0.29	1.5	U	N/A	1.3	1.8	0.86	1.5	0.75	on
sulfate	250000	48	13.1	12.3	70	13.2 B	17.6	8.4	13.2	12.6	Σ
sulfide		U	U	U	U	U	U	U	U	0.056 F	1
total alkalinity		225	136	246	120	157	149	212	240	137 B	1
Field Parameters											1
dissolved iron (mg/L)		1	N/A	0.6	0.8	0.4	0	0	0.2	0	1
рН		6.92	7.18	7.11	7	7.02	6.63	7.1	6.18	6.76	1
specific conductance (µS/cm)		465	301	591	340	345	226	412	343	50	1
temperature (degrees C)		10.3	10.2	13	12.6	9.88	10.34	12.88	12.89	9.38	1
dissolved oxygen (mg/L)		3.69	2.57	1.22	3.65	5.19	6.3	4.48	3.81	2.7	1
oxidation reduction potential (mV)		-41	4	-12	-17	163	32	-38	48	81	

 Table 3-2

 Tank Farms 1 and 3 Detected Analytical Results (continued)

Notes:

1 - Groundwater Standards are from Technical and Operational Guidance Series (TOGS) 1.1.1, June 1998. Amended in April 2000

♦ - Indicates higher value detected in the sample duplicate or during the dilution phase.

-- Indidcates no NYS GA Groundwater Standard

F - Ananlyte was positively identified but the associated numerical value is below the reporting limit

N/A - Analyte was not analyzed during sampling

U - The analyte was analyzed for, but not detected. The associated numerical value is at or below the method detection limit.

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Table 3-2 Tank Farms 1 and 3 Detected Analytical Results (continued)

3	Detected	Analytical	

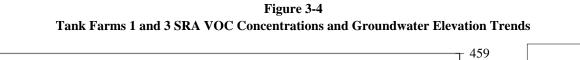
Monitoring Well ID	NYSDEC	VYSDEC TF3MW-131							TF3MW-132					TF3MW-133										
Sample ID	GW	TF3M13117HB	TF3M13114IB	TF3M13115JB	TF3M13115KB	TF3M13114LB	TF3M13114MA		TF3M13217HB	TF3M13217IB	TF3M13217JB	TF3M13217KB	TF3M13217LB	TF3M13217MA	TF3M13	3316HB	TF3M13317IB	TF3M13316JB	TF3M13316KB	TF3M13316LB	TF3M13316MA	TF3M13316NA	TF3M13316OA	TF3M13316PA
Date of Collection	Standards	11/25/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005		11/25/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	11/25/	/2003	3/17/2004	6/17/2004	9/13/2004	12/30/2004	3/29/2005	3/28/2006	6/20/2006	9/29/2006
Sample Depth (ft)	(µg/L)	17	14	15	15	15	14		17	17	16	17	17	17	1	7	16	16	16	16	16	16	16	16
VOCs (ug/L)																								1
1,2,4-trimethylbenzene	5	U	U	U	U	U	U		U	U	U	U	U	U	81	30	72	49	15	12	9.3	22	9.2 ♦	2.88
1,3,5-trimethylbenzene	5	U	U	U	U	U	U	1	U	U	U	U	U	U	4	14	26	16	6.2	5.7	8.6	12	U	U
acetone	5	U	U	1.5 F	U	U	U		U	U	1.8 F	1.9 F	U	U	τ	U	U	U	U	U	U	U	U	U
chloroform	7	0.34 F	U	0.55	0.4 F	0.47 F	0.3 F		0.93	U	0.79	0.63 B	0.57	0.78	τ	U	U	U	U	U	U	U	U	U
chloroethane	5	U	U	U	U	U	U		U	U	U	U	U	U	τ	U	U	U	U	U	0.33 F	U	U	U
cis-1,2-dichloroethylene	5	U	U	U	U	U	U	1	U	U	0.21 F	0.22 F	U	U	τ	U	U	U	U	U	U	U	U	U
sec - butylbenzene	5	U	U	U	U	U	U		U	U	U	U	U	U	1	1	12	8.4	4.8	4.1	6.3	5.9	8.3 ♦	4.53
ethylbenzene	5	U	U	U	U	U	U	005	U	U	U	U	U	U	9 U	U	0.73 F	0.97 F	U	U	0.2 F	0.38 F	0.31 F 🔶	0.16
isopropylbenzene	5	U	U	U	U	U	U	12	U	U	U	U	U	U	2	3	20	14	5.3	4.3	6.8	8.5	11 •	5.16
methylene chloride	5	U	U	U	U	U	U	rd	U	U	U	U	U	U	2 2.9	9 B	0.56 F	1.8 F	U	U	U	U	U	U
p-isopropyltoluene	5	U	U	U	U	U	U	Ma	U	U	U	U	U	U	eW 11	8	3.5	1.9 F	0.8 F	0.88 F	1.5	2.4	2.2 ♦	1.29
n-butylbenzene	5	U	U	U	U	U	U	er	U	U	U	U	U	U	5 5.	1	3.1	1.8 F	0.77 F	0.68 F	1.4	0.83 F	2.2 ♦	1.19
n-propylbenzene	5	U	U	U	U	U	U	aft	U	U	U	U	U	U	4	6	20	14	6.6	5.4	7.6	8.7	13 +	6.59
naphthalene	10	U	U	U	U	U	U	kd	U	U	U	U	U	U	<b>Pa</b> 3.	.7	5.2	3	0.87 F	0.98 F	1.6	1.6	2.5 B ♦	2.09
trichloroethylene	5	0.43 F	0.32 F	0.36 F	0.38 F	0.27 F	0.29 F	đ	0.8 F	0.67 F	0.64 F	0.69 F	0.6 F	0.65 F	<b>ີ ແ</b> ປ	U	U	U	U	U	U	U	U	U
t-butylbenzene	5	U	U	U	U	U	U	23	U	U	U	U	U	U	1. I.	.9	1.3 F	1 F	0.54 F	0.45 F	0.75 F	0.66 F	1 +	0.92
m,p-xylene	5	U	U	U	U	U	U	ot	U	U	U	U	U	U	10 8.	.2	5	3.4 F	1.2 F	0.95 F	1 F	1.3	1.1 F ♦	0.49
Total VOCs		0.77	0.32	2.41	0.78	0.74	0.59	1	1.73	0.67	3.44	3.44	1.17	1.43	- 200	0.9	169.39	115.27	42.08	35.44	38.08	62.97	50.81	25.3
SVOCs (µg/L)								6																
2-methylnapthalene		U	U	N/S	N/S	N/S	N/S	ů.	U	U	N/S	N/S	N/S	N/S	. i 1:	5	9 F	N/S						
naphthalene	10	U	U	N/S	N/S	N/S	N/S	tor	U	U	N/S	N/S	N/S	N/S	<b>Jo</b> 3	F	3 F	N/S						
Total SVOCs		0	0	N/S	N/S	N/S	N/S	- iii	0	0	N/S	N/S	N/S	N/S	11	8	12 F	N/S						
Wet Chemistry Data (mg/L)								2							M									
nitrate	10000	1	1.1	1.1	0.73	0.95	0.55	1	2	2	1.8	1.6	1.7	1.4	0.0	064	0.45	0.14	0.098	0.59	U	N/S	N/S	N/S
sulfate	250000	16.7	14.9	N/S	N/S	N/S	N/S		19.3	20.4	N/S	N/S	N/S	N/S	36	5.8	9.4	N/S						
sulfide		U	0.26 F	N/S	N/S	N/S	N/S		U	U	N/S	N/S	N/S	N/S	L	U	U	N/S						
total alkalinity		416	146 B	200	226	187	222		346	182 B	268	236	233	237	31	10	153 B	263	223	226	272	N/S	273	330
Field Parameters																								
dissolved iron (mg/L)		0	N/A	0	0	0	0	1	0.8	0	0	0	0	0	0.	.8	1.8	3.3	2.8	2	3.2	0.7	0.4	0.4
pH		5.9	6.89	6.98	7.46	6.57	6.65		6.02	7.18	7.13	7.31	6.57	7.01	6.6	61	7.05	7.15	7.29	6.09	6.98	7.22	7.51	6.71
specific conductance (µS/cm)		626	80	0.11 *	84.8	65	0.1 *		682	66	63	76.7	90	0.071 *	54	42	41	58	62.7	62	70	82.4	94	67
temperature (degrees C)		13.15	9.21	11	14.6	11.7	9		12.03	9.94	10.1	12.1	11.4	10.2	11.	.63	8.12	9.7	12.7	11	8.9	8.95	10.3	13.2
dissolved oxygen (mg/L)		2.43	1.6	4.8	3.64	7.58	6.39	1	2.63	2.9	4.9	6.52	8.78	9.52	1.	.1	2.8	4.1	3.82	8.41	6.89	4.65	280	4.76
oxidation reduction potential (mV)		249	169	59	154	141	152	1	274	169	77	269	118	204	-10	01	-37	-96	-94	-31	32	-60	90	164
Notes:																								
1 - Groundwater Standards are from Tech	nical and Operation	al Guidance Series (T)	DGS) 1 1 1 June 199	8 Amended in Anril	2000																			
* - specific conductance is measured in S																								
+ - Indicates higher value detected in the		during the dilution pha	15C.																					
Indidcates no NYS GA Groundwater St																								
F - Ananlyte was positively identified but		rical value is below th	te reporting limit																					
N/A - Analyte was not analyzed during sa			······																					
N/S- Analyte was not sampled.																								
U - The analyte was analyzed for, but not	detected. The assoc	iated numerical value	is at or below the m	ethod detection limit																				
			to at of early the in																					

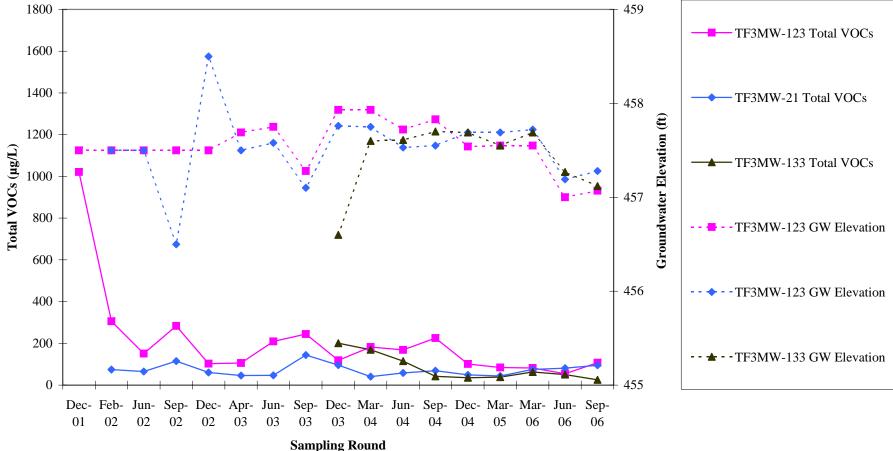
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- 458 TF3MW-127 Total VOCs . . - TF3MW-126 Total VOCs Groundwater Elevation (ft MSL) TF3MW-116 Total VOCs TF3-CE3 Total VOCs Total VOCs (µg/L) TF3MW-128 Total VOCs TF3MW-127 GW Elevation TF3MW-126 GW Elevation - TF3MW-116 GW Elevation TF3-CE3 GW Elevation -- TF3MW-128 GW Elevation Dec- Feb- Jun- Sep- Dec- Apr- Jun- Sep- Dec- Mar- Jun- Sep- Dec- Mar- Jun- Sep-

Figure 3-3 Tank Farms 1 and 3 SRA VOC Concentrations and Groundwater Elevation Trends

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#### **December 2001 Downgradient Delineation Results:**

During December 2001 sampling round, monitoring wells TF3MW-116, -117, -118, -119, -120, -121, -123, -124 were sampled along Brooks Road to assess the downgradient migration of the plume. Samples were not analyzed for natural attenuation parameters during this sampling round. TF3MW-123 reported several VOC exceedances and three SVOC exceedances. TF3MW-116 and -118 contained two and one VOC exceedances, respectively, while TF3MW-119 contained one VOC and several SVOC exceedances. No exceedances were reported in monitoring wells TF3MW-117, -120, -121 and -124.

- Minimum VOC exceedance: 5.6 µg/L for 2-dibromo-3-chloropropane at TF3MW-123
- Maximum VOC exceedance: 480 µg/L for isopropylbenzene at TF3MW-123
- Maximum total VOCs: 1,021 µg/L at TF3MW-123
- Maximum SVOC exceedance: 16 µg/L for bis(2-ethylhexyl)phthlate at TF3MW-123
- Maximum total SVOCs: 148 µg/L at TF3MW-123

#### February 2002:

Monitoring wells TF3CE-3, TF3MW-21, -116, -126, and -130 contained only VOC exceedances, while TF3MW-119, -123, -125, -127, and -128 showed exceedances for VOCs and SVOCs. Monitoring wells TF3MW-2, -25, -117, -118, -120, -121, -124, and -129 showed no exceedances of NYS Groundwater Standards. In March 2002, monitoring wells TF3MW-118 through -121 were decommissioned due to site construction that changed the site topography and usage. Following completion of site construction, replacement monitoring wells will be installed to monitor plume migration.

- Minimum VOC exceedance: 5.1 µg/L of n-butylbenzene at TF3MW-21
- Maximum VOC exceedance: 140 µg/L of 1,2,4-trimethylbenzene at TF3MW-128
- Maximum total VOCs: 510 µg/L at TF3MW-128
- Maximum SVOC exceedance: 26 µg/L of naphthalene at TF3MW-128
- Maximum total SVOCs: 127 µg/L at TF3MW-127

#### June 2002:

Monitoring wells TF3-CE3, TF3MW-21, -116, -117, -123, -125, -126, -127, and -128 contained VOC or SVOC exceedances. TF3MW-21, -116, -117, and -123 showed SVOC exceedances that were qualified with an "M" qualifier that indicated a matrix effect was present. Monitoring wells TF3MW-2, -25, -124, -129, and -130 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance: 5.8 µg/L of n-propylbenzene at TF3CE-3
- Maximum VOC exceedance: 98 µg/L of 1,2,4-trimethylbenzene at TF3MW-128
- Maximum total VOCs: 294 µg/L at TF3MW-125

- Maximum SVOC exceedance: 20 µg/L of naphthalene at TF3MW-127
- Maximum total SVOCs: 54 µg/L at TF3MW-127

#### September 2002:

Monitoring wells TF3-CE3, TF3MW-21, -116, -117, -123, -125, and -126 contained only VOC exceedances. Monitoring wells TF3MW-127 and -128 contained VOC and SVOC exceedances. Monitoring wells TF3MW-2, -25, -117, -124, -129, and -130 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance: 5.7 µg/L of benzene at TF3MW-127
- Maximum VOC exceedance: 190 µg/L of 1,2,4-trimethylbenzene at TF3MW-127
- Maximum total VOCs: 659.77 µg/L at TF3MW-127
- Maximum SVOC exceedance: 110 µg/L of naphthalene at TF3MW-127
- Maximum total SVOCs: 412 µg/L at TF3MW-127

#### December 2002:

Monitoring wells TF3-CE3, TF3MW-21, -116, and -125 contained VOC exceedances. Monitoring wells TF3MW-123, -127, and -128 contained both VOC and minor SVOC exceedances. Monitoring wells TF3MW-2, -25, -117, -124, -126, -129, and -130 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance: 5.1 µg/L of isopropylbenzene at TF3-CE3
- Maximum VOC exceedance: 53  $\mu$ g/L for isopropylbenzene at TF3MW-123 and ethylbenzene at TF3MW-125
- Maximum total VOCs: 182 µg/L at TF3MW-125
- Maximum SVOC exceedance: 2 F µg/L at TF3MW-127 and -128 for benzo(a)anthracene
- Maximum total SVOCs: 27 µg/L at TF3MW-127

#### March 2003:

Monitoring wells TF3MW-21, -117, -123, -125, -127, and -128 contained only VOC exceedances. No SVOC exceedances were detected, except for naphthalene, also a VOC, at TF3MW-127. Monitoring wells TF3-CE3, TF3MW-2, -25, -116, -117, -124, -126, -129, and -130 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance:  $5.2 \text{ J} \mu \text{g/L}$  for n-propylbenzene for TF3MW-21
- Maximum VOC exceedance: 61 M µg/L for ethylbenzene for TF3MW-125
- Maximum total VOCs: 205 µg/L at TF3MW-125

#### June 2003:

Monitoring wells TF3MW-21, -116, -117, -123, -125, -127, and -128 contained only VOC exceedances. No SVOC exceedances were detected. Monitoring wells TF3-CE3, TF3MW-2, -25, -124, -126, -129, and -130 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance: 5.2 J µg/L for n-propylbenzene at TF3MW-21
- Maximum VOC exceedance: 120 µg/L for isopropylbenzene at TF3MW-123
- Maximum total VOCs: 209 µg/L at TF3MW-123

#### September 2003:

Monitoring wells TF3MW-21, -117, -123, -125, -127, and -128 contained only VOC exceedances. No SVOC exceedances were detected, except for naphthalene, also a VOC, at TF3MW-127. Monitoring wells TF3-CE3, TF3MW-2, -25, -116, -124, -126, -129, and -130 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance: 5.2  $\mu$ g/L for benzene at TF3MW-127 and n-butylbenzene at TF3MW-123
- Maximum VOC exceedance: 130 µg/L for isopropylbenzene at TF3MW-123
- Maximum total VOCs: 245 µg/L for TF3MW-123

In September 2003, monitoring wells TF3MW-25 and -125 were decommissioned due to site construction at the Tank Farms 1 and 3 site. As with previously decommissioned monitoring wells, replacement monitoring wells will be installed following completion of site construction and evaluation of the LTM monitoring well network. In addition, in November 2003, TF3MW-131, -132, and -133 were installed in the central portion of the Tank Farm 1 and 3 site.

#### December 2003:

Monitoring wells TF3-CE3, TF3MW-21, -116, -117, -123, -127, -128, and -133 contained only VOC exceedances. No SVOC exceedances were detected. Monitoring wells TF3MW-2, -25, -124, -126, -129, -130, -131, and -132 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance:  $2.1 \,\mu$ g/L for benzene at TF3MW-127
- Maximum VOC exceedance: 80 µg/L for 1,2,4-trimethylbenzene at TF3MW-133
- Maximum total VOCs: 230 µg/L for TF3MW-127

#### March 2004:

Monitoring wells TF3-CE3, TF3MW-21, -116, -117, -123, -127, -128, -129 and -133 contained only VOC exceedances. No SVOC exceedances were detected. Monitoring wells TF3MW-2, -25, -124, -126, -130, -131, and -132 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance:  $2.2 \mu g/L$  for benzene at TF3MW-129
- Maximum VOC exceedance: 110 µg/L for isopropylbenzene at TF3MW-123
- Maximum total VOCs: 182 µg/L for TF3MW-123

Following the March 2004 sampling round SVOCs, sulfate and sulfide were no longer sampled for at the Tank Farms 1 & 3 site. In addition, monitoring wells TF3MW-2, -25, -124, -125, -129, and -130 are no longer sampled because previous sampling data showed an absence of contamination.

#### June 2004:

Monitoring wells TF3-CE3, TF3MW-21, -116, -117, -123, -127, -128, and -133 contained VOC exceedances. Monitoring wells -126, -131, and -132 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance:  $4.2 \mu g/L$  for benzene at TF3MW-127
- Maximum VOC exceedance: 85 µg/L for isopropylbenzene at TF3MW-123
- Maximum total VOCs: 230.67 µg/L for TF3MW-127

#### September 2004:

Replacement monitoring wells TF3MW-119R and TF3MW-121R were installed prior to the September 2004 sampling round. Replacement monitoring well TF3MW-125R could not be installed due to the installation of new site utilities that obstruct the installation of the replacement well. Monitoring wells TF3-CE3, TF3MW-21, -116, -117, -119R, -123, -127, -128, and -133 contained VOC exceedances. Monitoring wells -126, -131, and -132 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance:  $3.3 \mu g/L$  for benzene at TF3MW-127
- Maximum VOC exceedance: 120 µg/L for isopropylbenzene at TF3MW-123
- Maximum total VOCs: 225.4 µg/L for TF3MW-123

#### December 2004:

Monitoring wells TF3-CE3, TF3MW-21, -116, -117, -123, -127, -128, and -133 contained VOC exceedances. Monitoring wells TF3MW-119R, -126, -131, and -132 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance:  $5.4 \mu g/L$  for n-propylbenzene at TF3MW-133
- Maximum VOC exceedance: 70 µg/L for isopropylbenzene at TF3MW-127
- Maximum total VOCs: 162.13 µg/L for TF3MW-127

#### March 2005:

Monitoring wells TF3-CE3, TF3MW-21, -116, -123, -127, -128, and -133 contained VOC exceedances. Monitoring wells TF3MW-117, -119R, -121R, -126, -131, and -132 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance: 5.2 µg/L for ethylbenzene at TF3MW-127
- Maximum VOC exceedance: 62 µg/L for isopropylbenzene at TF3MW-125
- Maximum total VOCs: 105.14 µg/L for TF3MW-128

In December 2005, Oxygen Release Compound (ORC<sup>®</sup>) Advanced was injected into seventeen borings. Site utilities made injection impossible south of Brooks Road and ORC<sup>®</sup> socks were installed in existing monitoring wells instead. Five pounds of ORC<sup>®</sup> per foot were injected from 20 to 14 feet bgs. Injection took place in the source area of Tank Farms 1 & 3 as shown on Figure 3-1 and added to downgradient monitoring wells TF3MW-21, -116, -117, -119R, -121R and -123 by the use of ORC<sup>®</sup> socks in October 2005.

#### March 2006:

Monitoring wells TF3-CE3, TF3MW-21, -116, -123, -127, -128, and -133 contained VOC exceedances. Monitoring wells TF3MW-117, -119R, -121R, and -126 showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance: 5.9 µg/L for sec-butylbenzene at TF3MW-133
- Maximum VOC exceedance: 62 µg/L for isopropylbenzene at TF3MW-123
- Maximum total VOCs: 82.38 µg/L for TF3MW-128

#### June 2006:

Monitoring wells TF3-CE3, TF3MW-21, -116, -123, -126, -127, -128, and -133 contained VOC exceedances. Monitoring wells TF3MW-117, -119R, and -121R showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance: 5.2 µg/L for isopropylbenzene at TF3-CE3
- Maximum VOC exceedance: 54 µg/L for isopropylbenzene at TF3MW-21
- Maximum total VOCs: 81.2 µg/L for TF3MW-21

In August 2006, ORC<sup>®</sup> was injected at fifteen locations along Brooks Road near former well TF3MW-25 and existing wells TF3MW-123 and TF3MW-133 as shown on Figure 3-2.

#### September 2006:

Monitoring wells TF3-CE3, TF3MW-21, -116, -123, -126, -127, -128, and -133 contained VOC exceedances. Monitoring wells TF3MW-117, -119R, and -121R showed no exceedances of NYS Groundwater Standards.

- Minimum VOC exceedance: 5.1 µg/L for sec-butylbenzene at TF3MW-21
- Maximum VOC exceedance: 101 µg/L for 1,2,4-trimethylbenzene at TF3MW-127
- Maximum total VOCs: 271.41 µg/L for TF3MW-127

#### **Natural Attenuation**

Natural attenuation includes any reduction in concentration as a result of any of the natural attenuation processes, including dilution, dispersion, sorption, volatilization, biodegradation/biotransformation, and abiotic degradation/transformation.

In the original LTM workplan, groundwater samples were also analyzed for the following geochemical indicator parameters: alkalinity, dissolved ferrous iron, nitrate, sulfate, and sulfide. These parameters can be used to document if the groundwater conditions support *biological* natural attenuation processes, particularly hydrocarbon biodegradation. These parameters help to identify if groundwater conditions are aerobic or anaerobic, and to indicate if other alternate electron acceptors are available to assist in the biodegradation of remaining COCs.

Microorganisms obtain energy for cell production and maintenance by catalyzing the transfer of electrons from electron donors to electron acceptors. This process results in the oxidation of the electron donor (which, in this case, is benzene, toluene, ethylbenzene and xylene (BTEX)/Total Petroleum Hydrocarbons (TPH), and the reduction of the electron acceptor. In most scenarios, Dissolved Oxygen (DO) is the primary electron acceptor. After DO is consumed, anaerobic microorganisms generally use electron acceptors in the following order of preference – nitrate, ferric iron, sulfate, and carbon dioxide (Wiedemeier et al., November 1995). Anaerobic destruction of BTEX is associated with the reduction of nitrate, solubilization of iron, reduction of sulfate, and production of methane (the latter of which is not included in the list of geochemical parameters analyzed). Each of these parameters will be reviewed in the following subsections. Please refer to Table 3-2 for natural attenuation parameter results.

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#### **Dissolved Oxygen (DO)**

Oxygen is the most thermodynamically preferred electron acceptor and is normally depleted in areas with relatively higher BTEX/TPH concentrations. The Tank Farms 1& 3 site contained data within normal DO ranges but did show lower readings during the June (summer) and September (fall) 2002 sampling rounds at several well locations (TF3-CE3, TF3MW-21, -116, -123, -124, -127, -128, and -129). No correlation could be found between depleted DO levels within plume boundaries or at contaminated monitoring wells. It does appear that DO levels have been rising site wide since LTM began. Please note that DO levels were measured in the field from samples collected with a disposable bailer and do not necessarily represent subsurface conditions.

#### Nitrate

After the DO has been consumed, nitrate is used as an alternate electron acceptor for anaerobic biodegradation. In this process, nitrate (NO  $_3$ ) is converted to nitrite (NO  $_2$ ); therefore, nitrate depletion relative to background conditions can be an indication of biological activity. Depleted nitrate conditions appear to exist at monitoring wells within most of the designated plume areas. Nitrate levels in three uncontaminated and upgradient/crossgradient monitoring wells (TF3MW-2, -25, -130, -131, and -132) detections were generally within the range of 0.8 to 2 mg/L. These monitoring wells also showed no contamination during sample analysis. Monitoring wells within the eastern plume show mostly depleted or undetectable nitrate levels. Downgradient well TF3-CE3 showed some nitrate depletion, with levels between 0.087 and 0.71 mg/L that are higher than the source area but lower than uncontaminated upgradient or crossgradient wells. Downgradient wells TF3MW-116 through -119R and -126 also showed depleted or undetectable nitrate ranges of 0-2.5 mg/L with no or low levels of contamination. In addition, uncontaminated well TF3MW-124 and contaminated wells TF3MW-21, -123, and -125 within the western plume boundary along Brooks Road showed depleted or undetectable levels of nitrate when compared to uncontaminated upgradient wells discussed above. It should be noted that downgradient replacement monitoring well TF3MW-121R showed a positive detection of nitrate at 1.2 mg/L for the September 2004 sampling round. The absence of nitrate in within-plume and downgradient wells suggests biological activity associated with nitrate reduction has consumed the available nitrate in areas affected with relatively higher levels of contamination. It was recommended that nitrate no longer be sampled for at the Tank Farms 1 & 3 SRA after March 2005.

#### **Dissolved Iron**

After DO and nitrate have been depleted by microbial activity, ferric iron (Fe<sup>3+</sup>) is used as an electron acceptor during anaerobic biodegradation of hydrocarbons. Ferric iron is reduced to ferrous iron (Fe<sup>2+</sup>), which is soluble in groundwater, and is therefore an indicator of microbial degradation activity. The presence of ferrous iron above background levels is indicative of anaerobic consumption of petroleum hydrocarbons via iron reduction. Low dissolved iron levels were identified at upgradient/crossgradient uncontaminated locations TF3MW-2, -25, -128, -129, and -130, with an approximate range of 0-1.8 mg/L. Monitoring wells within the Building 147

plume (TF3MW-127, and TF3-CE3) as well as downgradient wells TF3MW-116, -117, and -126 contained relatively higher levels (1-6.5 mg/L) of ferrous iron than upgradient, uncontaminated wells described above. The western plume along Brooks Road shows similar results with contaminated wells TF3MW-21, -123, and, -125 showing relatively elevated ferrous iron levels (1.6 – 5.6 mg/L). Crossgradient well TF3MW-124 showed slightly elevated levels 0.2 –3.2 mg/L, while downgradient uncontaminated monitoring wells TF3MW-118, -120, and -121 all showed undetectable ferrous iron levels. Monitoring wells TF3MW-119, -121 and its replacement wells TF3MW-119R and -121R, located downgradient of TF3MW-123, show undetectable and low levels (0-1 mg/L) during sampling rounds in addition to minor SVOC contamination for the 2002 sampling round only. The presence of ferrous iron above background levels within plume boundaries is indicative of anaerobic degradation of petroleum hydrocarbons in the vicinity of these wells.

#### Sulfate

Sulfate is the next thermodynamically preferred alternate electron acceptor and is used by microbes once the oxygen, nitrate, and ferric iron have been depleted by the anaerobic biodegradation of hydrocarbons. Sulfate is converted to sulfide in the subsurface during anaerobic biodegradation, often forming hydrogen sulfide gas, which produces a "rotten egg" odor. This process results in a depletion of sulfate and the production of sulfide. Sulfide may not always be detected in groundwater samples, however, because it commonly forms metal sulfide precipitates and falls out of solution. Sulfate levels at upgradient/crossgradient uncontaminated locations TF3MW-2, -25, -129, and -130 did not differ significantly when compared to contaminated, within-plume wells TF3MW-21, -123, -125, -127, and -128. Sulfide was detected during the March 2004 sampling round, but was identified just above the detection limit at wells TF3-CE3, TF3MW-116, -123, -127, -130, -131, -132 and -133. These results indicate that sulfate reduction is not a significant process for the potential anaerobic completion of petroleum hydrocarbons at the site and sulfate sampling was discontinued after the March 2004 sampling round.

#### Alkalinity

Aerobic biodegradation (during the oxidation of hydrocarbon) uses oxygen to oxidize the hydrocarbon and produces carbon dioxide by the process known as mineralization. When carbon dioxide is produced, it increases the alkalinity, or the water's ability to buffer an acid, and can therefore be an indicator of biological activity. In general, areas contaminated with hydrocarbons exhibit a higher total alkalinity than background areas. Changes in alkalinity are most pronounced during aerobic respiration, denitrification, iron reduction, and sulfate reduction. Generally higher (>200 mg/L) alkalinity levels were originally measured in downgradient or within-plume wells (TF3-CE3, TF3MW-116, -117, -120, -121, -126, -127, -128, -133) than other wells at the site, with levels generally less than 200 mg/L. It should be noted that alkalinity levels are most likely to be higher in wells downgradient of the plumes; some of the highest levels reported above 300 mg/L were associated with wells TF3CE-3 and TF3MW-116, -117,

-126, and -128. These results now appear to be inconclusive when compared to historical data. High and low alkalinity measurements were found at both contaminated and uncontaminated wells that were upgradient, downgradient, and crossgradient from known sources and existing plumes. Some of the most contaminated areas (TF3MW-123, -21) showed low levels of alkalinity as did its downgradient wells (TF3MW-119, -119R). Alkalinity has become less of an indicator of biodegradation as the plume stabilizes and the clean perimeter wells are no longer sampled with remaining LTM wells.

#### pН

Hydrocarbon-degrading microbes are active within a pH range of 5 to 9 standard units (s.u.). There was no clear correlation with pH and contaminant locations. All pH readings are within normal ranges with no discernable trends identified between pH levels and seasonal variations or contaminant levels between wells.

#### Temperature

Groundwater temperature affects the rate of biodegradation, and for every 10 °C increase in temperature between 5 and 25 °C, biodegradation rates may double. The highest groundwater temperatures were found during the fall and winter sampling rounds and the lowest observed during spring and summer sampling, with temperatures falling within normal variation. The temperature discrepancy may be caused by buried steam heat piping at the site which is active during fall, winter and early spring.

#### **Specific Conductance**

Specific conductance is a measure of a groundwater's ability to conduct electricity. As the concentration of ions in solution increases, the specific conductance increases. Specific conductance was found to be highest during the summer and fall (June and September) sampling round and lowest during the winter (December, February) sampling.

#### **Redox (Reduction/Oxidation Potential)**

The redox potential of groundwater is a measure of electron activity and is an indicator of the relative tendency of a solution to accept or transfer electrons. The redox potential of groundwater typically ranges from -400 mV to +800 mV. Positive redox values (redox > 0) indicate oxidizing (and generally aerobic) conditions (i.e., loss of electrons) and negative measurement (redox < 0) indicate reducing (and generally anaerobic) conditions (i.e., gain of electrons). Redox conditions are usually mediated by biological activity. Positive redox measurements are generally favorable for hydrocarbon biodegradation. Mostly, there appears to be site-wide negative redox measurements throughout, except for TF3MW-121 (which was decommissioned and replaced by TF3MW-121R), TF3MW-2, -128, -129, -130, -131, and -132 during the past sampling rounds. These measurements are consistent with the observation of ongoing anaerobic processes such as nitrate and iron reduction, therefore the potential for significant biodegradation is severely limited.

#### 3.5 CONCLUSIONS AND RECOMMENDATIONS

The 2002 source removal excavation (Parsons, December 2003) positively affected localized groundwater conditions. Removal of the residual soil contamination continued into the saturated zone where contamination was located and eliminated additional leaching of contamination to groundwater from the vadose zone.

In Fall 2005, ORC<sup>®</sup> Advanced was injected into the source area of Tank Farms 1 & 3 near TF3MW-128 (as shown on Figure 3-2) and added to monitoring wells TF3MW-21, -116, -117, -118R, 121R and -123 by the use of ORC<sup>®</sup> socks. In Summer 2006, additional ORC<sup>®</sup> was injected in the vicinity of monitoring wells TF3MW133, TF3MW-123 and former well TF3MW-125 to promote biodegradation. The original LTM plan is summarized in Table 3-1. An optimized LTM network is listed in Table 3-4 and shown on Figure 3-2.

Monitoring wells TF3MW-123, -127, -128, and -133 appear to be the most contaminated wells, with VOC contamination that is primarily isopropylbenzene, ethylbenzene, and 1,2,4-trimethylbenzene. Contaminant levels appear to be attenuating, with downgradient locations showing no increases in contamination with the exception of TF3MW-126 which contained returning VOC exceedances in the summer and fall 2006 sampling rounds. Based on the December 2001 through September 2006 quarterly sampling and review of analytical results, a groundwater plume exists as shown on Figure 3-2.

Groundwater contamination data and review of natural attenuation parameters shows definite seasonal fluctuations. In addition to the decline of total VOC levels over time, nitrate depletion, ferrous iron production, and increased alkalinity have provided the best evidence of natural attenuation provided by biodegradation at the site. No definable trends or attenuation mechanisms were identified after reviews of sulfate and sulfide levels. Generally, low levels of sulfate indicate that sulfate reduction is not a major anaerobic pathway for the site and sulfate analysis was discontinued after March 2004. In general, biodegradation processes appear to be severely electron acceptor-limited at the site.

Additional ORC<sup>®</sup> injection may follow the review of LTM data in December 2007 to decide if additional injection would be needed to aid further biodegradation at the site. A mobile biosparging setup will also be evaluated for intermittent application at the most contaminated wells (TF3MW-123, -127 and -128), to enhance bioremediation.

Table 3-3Tank Farms 1 and 3 Proposed Future LTM Sampling

Sampling Locations	Sampling Rationale	Target Analytes/ Method Numbers	Sampling Frequency	Evaluation Criteria/ Modification Justification
TF3-CE3	Within plume	VOCs (AFCEE QAPP	Annually	The plume is stable.
TF3MW-21	Within plume	4.0 List)/SW8260		
TF3MW-116	Within plume	Alkalinity/310.2		
TF3MW-117	Crossgradient of plume			
TF3MW-119R	Downgradient of plume			
TF3MW-121R	Downgradient of plume			
TF3MW-123	Within plume			
TF3MW-126	Within plume			
TF3MW-127	Within plume			
TF3MW-128	Within plume			
TF3MW-133	Within plume			
		Recommended	LTM Chan	nges
		Analysis	Changes	
TF3MW-119R	Downgradient of plume	SVOCs/SW8270		SVOCs were not identified at these wells following six
TF3MW-121R	Downgradient of plume			sampling rounds. SVOC sampling is no longer needed.

Table 3-3 (continued)Tank Farms 1 and 3 Proposed Future LTM Sampling

Sampling Locations	Sampling Rationale	Target Analytes/ Method Numbers	Sampling Frequency	Evaluation Criteria/ Modification Justification					
		Historical LTM N	etwork Change	es					
	June 2006								
	Analysis/Frequency Change								
All sampled wells	1	Nitrate/353.2		Nitrate is no longer a useful biodegradation indicator at the Tank Farms 1 and 3 site, and will not be sampled after the Winter 2006 sampling round.					
		Novembe	er 2005						
		Removed Samp	ling Locations						
TF3MW-131 TF3MW-132	Upgradient of plume Upgradient of plume			Previous quarterly LTM samples indicate that no contamination is present and additional groundwater sampling is not needed.					
		Februar	y 2005						
		Removed Samp	ling Locations						
TF3MW-124 TF3MW-129 TF3MW-130	Crossgradient of plume Upgradient of plume Upgradient of plume			Previous quarterly LTM samples indicate that no contamination is present and additional groundwater sampling is not needed.					
		June 2	2004						
		Analysis/Frequ	ency Changes						
All sampled wells		Sulfate/376.3 Sulfide/375.4		Sulfate reduction is depleted and will no longer be sampled during June 2004 round.					

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# Table 3-3 (continued)Tank Farms 1 and 3 Proposed Future LTM Sampling

Sampling Locations	Sampling Rationale	Target Analytes/ Method Numbers	Sampling Frequency	Evaluation Criteria/ Modification Justification			
		Added Sampling L	ocations				
TF3MW-119R TF3MW-121R	Downgradient of plume Downgradient of plume	VOCs and SVOCs(AFCEE QAPP 3.1 List)/SW8260 and SW8270 Alkalinity/310.2 Nitrate/353.2	Quarterly	Quarterly monitoring with semi-annual evaluation and recommendations. SVOC analysis was added due to previous identification of SVOC contamination. Monitoring well locations were replacements for previous well locations.			
		Removed Sampling	Locations				
TF3MW-118 TF3MW-119 TF3MW-120 TF3MW-121	Downgradient of plume Downgradient of plume Downgradient of plume Downgradient of plume	VOCs (AFCEE QAPP 3.1 List)/SW8260	Quarterly	Decomissioned March 2002 due to site construction.			
TF3MW-1 TF3MW-25 TF3MW-125	Within plume Crossgradient of plume Within plume	VOCs (AFCEE QAPP 3.1 List)/SW8260	Quarterly	Destroyed 2003 due to site construction.			

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Appendices

#### **Daily Chemical Quality Control Report**

Project/Delivery Order Number: F41624-03-D-8601-0027 Date: 06/20/06

Project Name/Site Number: Griffiss Petro SRAs Landfills LTM sampling (Tank Farms 1 and 3, Apron 2, and Building 789).

Weather conditions: Temperature: 75 Barometric reading: 29.87 Wind direction and speed: west 14 mph. Significant wind changes: none.

General description of tasks completed: Bailer sampling at Site Tank Farms 1 and 3 (TF3MW-21, -116, -117, -119R, -121R, -123, -126, -127, -128, -133, and TF3CE3) and Site Apron 2 (AP2MW-3, -14, -LD1SW, -B1NE2, and 782VMW-102) and Site Building 789 (789MW-102). Surface water sampling at Site Apron 2 (782SW-118, -119, and -120).

Explain any departures from the SAP or deviations from approved procedures during the day's field activities: none.

Explain any technical problems encountered in the field or field equipment/field analytical instrument malfunction: none.

Corrective actions taken or instructions obtained from AFCEE personnel: No corrective actions necessary.

Sampling shipment completed:  $\sqrt{Yes} \square$  No STL courier.

DCQCR Prepared by: Niels van Hoesel, FOM

Date: 21 June 2006

CQCC Signature: Concordia Van Harael Date: 6/23/06

ATTACHMENTS:

Checklist		Daily Chemical Quality Control Report Attachments
V/	$\checkmark$	Field sampling forms
$\mathbb{N}/\mathbb{N}$	$\checkmark$	Equipment Calibration Log
	$\checkmark$	Copies of COCs
	$\checkmark$	SDG Table (See accompanying COCs)
1	$\checkmark$	Daily Health and Safety Meeting Form

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Project:	40-05-2	7	Saı	mpled by:	T	PC		
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Unit Casing Volum	e (A) (gal/ft) 0.04	0.09	/ 0.2	0.37 0.65	0.75 1	.0 1.5	2.0 2.6	
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	Level Depth (C) (STATD			t ho				
	Water Column (D) =	/				B ELEVATI	ON	
Longin of Static	(B	) (C)	= <u>7.36</u> (D)	н. н₂с		(MPELE	V)	~ >+ I
Casing Water Vo	lume (E) = $\underbrace{O.16}_{(A)} x$	736-1	18				ل	re27.45ml
Cashig Water Vo	$\frac{(A)}{(A)}$	(D)	<u> </u>		STATIC	V	-	
Minimum Purge	Volume = 3:53 ga	1 (3 well volum	ec)		ELEVATION	<b>V</b>	MEAN	
Minimum i uige							- SEA LEVEL	
Purge Date	e and Method:	Brile	C					
Physical A	ppearance/Comm	ents:	loude	, Brow	N.	0 ode	r. Potri	s cobol
			- 1		l			ne adde
FIELD ME Allowable	EASUREMENTS Range <sup>*</sup>	: ± 0.1	± 5%	±1°C			perc	infice dole
Time	Volume	 pH	EC	Temp.	Turbidity	D.O.	ORP	
	Removed (gal)		( <b>s</b> S/sm)	(F or C)	(NTU)	(mg/L)	(mV)	
1045	0.75		6.176	117	213	5.97	-98	
1046	1.50	7.05	0.173 0.168		189	1.7+ 9.00	- <u>46</u>	-
1051	2.25	2.04	0. 170	M. I	184	7.54	-95	
1053	3.75	7:04 7:02	0.169	11.0	140	6:82	-92	
	-						<u></u>	]
Sample Time	e: <u>1055</u> Samp	ole ID: TF	3MIL	6140	4			

Page		of	
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	40.09.27						>			
	and Site Code (SI					₩° \	2			
				ell Diamet		I):	۷.			
Date (LO	GDATE):	· 0	ø W	eatner:	<i>A A</i>					
CASING VOLU	ME INFORMATION:									
Casing ID (inch)	1.0	1.5 2.	0 2.2	3.0 4.0	4.3 5.	.0 6.0	7.0		]	
Unit Casing Volun	ne (A) (gal/ft) 0.04	0.09 0.1	6 0.2	0.37 0.65	0.75 1	.0 1.5	2.0	2.6		
PURGING INFO			-			A A				
	Depth (B) (TOTDEPTH)			E E	C					
	Level Depth (C) (STATD				~	B				
Length of Static	Water Column (D) = $(B)$	) - (C)	= <u>7.9</u> K	_ft. <sub>H2</sub> (		ELEVA (MPEL				
Casing Water Vo	$ (E) = \underline{\qquad} (A) $	(D) =	<b>1.2736</b> ga						TE 1	۰ م
Minimum Purge	Volume = <b>3.82</b> ga	l (3 well volu	mes)		ELEVATION	V	MEAN SEA		FE 9	. L
Purge Date	e and Method:		Sil.	,			LEVEL			
					up L	de-				
FIELD MI	EASUREMENTS	•		<i>y</i>				<u> </u>		
Allowable		± 0.1	± 5%	±1°C						
Time	Volume	pH	EC	Temp.	Turbidity	D.O.	OR	P		
	Removed (gal)	Ĩ	(mS/cm)	· ·	(NTU)	(mg/L)	(m <sup>v</sup>			
1024	1	7.52	0.115	12.4	493	6:22	-10;			
1025	2	7.21	76.6	11.6	185	4.67	-9!			
1027	2 3	2.09	75.7	11.6	119	4.52				
1028	4	7.05	94.6	11.5	81	4.64	-99 -9	2		
1030	5'	7.06	14.0	11.5	119 81 62	4.64 7.47	-8	5		
	1000 -		63	ang 1						

Sample Time: <u>(033</u> Sample ID: <u>T(-3MII7130A</u>

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Project:	40-05-2	7	Sai	mpled by:	JD	PC		
-	nd Site Code (SI							
W-IIN. C	LOCID): <u> <u> <u> </u> <u> <u> </u> <u></u></u></u></u>	[210)			(CINTANA	D: 2"		
wen no. (		<u>romer</u>			er (SDIAM	· / · ·		
Date (LOC	GDATE): <u>6/20</u>	101	We	eather: 🗹	MARY, T	03		
	• • • • • • • • • • • • • • • • • • •							
CASING VOLU	ME INFORMATION:							
Casing ID (inch) Unit Casing Volum	e (A) (gal/ft) 0.04	1.5 2.0 0.09 0.1	<u>2.2</u> 6 0.2	3.0 4.0 0.37 0.65		.0 6.0	7.0 2.6	
<u>omecasing</u> (onin	<u> </u>					. <u>y. I</u>		
PURGING INFO	RMATION:					A A		
	Depth (B) (TOTDEPTH)	18.4	3 .	-	ļ ļ			
	Level Depth (C) (STATE			- -				
		ET) <u>i</u> 64 0	æ	Γ, p		B	ION	
Length of Static	Water Column (D) =(B	) - (C)	= ( 0   (D)	п. н₂с		(MPELE		
	~ <i>L</i> /	( AL	A 01					
Casing Water Vo	$lume(E) = \underbrace{0.(6)}_{(A)} x_{-}$	(D) = J	V. Io gal		STATIC			
	2 76				ELEVATION		አለም ላ አና	
Minimum Purge	Volume = $2.88$ ga	ıl (3 well volu:	mes)		<u> </u>		MEAN SEA LEVEL	
		1.0	6				10400	
	and Method:		- e -	<u> </u>	K i	1 /		- 1 - Silcolds
Physical A	ppearance/Comm	nents:	>ilty x	Sawa	, tetro	oder be	<u>clame</u>	Stronger, Blacke
FIFLD MF	EASUREMENTS		and a second	~		Fe	T:0.7	mg/L
Allowable		$\pm 0.1$	± 5%	±1°C				<b>U</b>
Time	Volume	pН	EC	Temp.	Turbidity	D.O.	ORP	
	Removed (gal)	- ~~	(mS/em)	(F or C)	(NTU)	(mg/L)	(mV)	
0925	0.75	6.60	0.142	15.6 14.4	>999	6.53	64 -8	
0927 0928	1.50	7.00	0.133	14.0	>999	7.59	-30	_
0930	3.60	7.29	0.132	13.9	5999	10.36		
0431	3.60 3.75 4.50	7.29 7.33	0.133	$\left(\frac{2}{9}, \frac{8}{9}\right)$	7999	7.09	-36 -53	
0933	4.50	7.33	0.133	14,1	2999	9.19	-53	
								-
		1						
***************************************	~47E ~		(21/10	RIAN	٨	······		
Sample Time	e: <u>0935</u> Samj		F3M119	ricu	1			

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#### WELL PURGING & SAMPLING FORM

Project:	40-05-27		Saı	mpled by:	JU B	$\sim$		
Location a	nd Site Code (SIT	'EID):	TF	18=3				
	LOCID): W-TI			( eg.	er (SDIAM	): 24		
	GDATE): 62	8	<b>ter</b> We	eather '	Samo	): <u>21</u> 80°	·····	
	MALE). <u>ele</u>	<u>-106</u>	VV (		Jar we have a	)		
CASING VOLU	ME INFORMATION:	A						
Casing ID (inch)	1.0	1.5 2.0	2.2	3.0 4.0	4.3 5.0	) 6.0	7.0	
Unit Casing Volum	e (A) (gal/fi) 0.04	0.09 0.10	0.2	0.37 0.65	0.75 1.0	) 1.5	2.0 2.6	
PURGING INFC	RMATION:			<b></b>				
	Depth (B) (TOTDEPTH)	1219	fi fi		Ç			
	Level Depth (C) (STATD		5 /					
		2	=5.23	ft.		B ELEVAT	ION	e 0.8
Length of Static	Water Column (D) = $(B)$		_= <u>). ()</u> (D)	<u>н.</u> H <sub>z</sub> C		(MPELI		
Coging Water Vo	blume (E) = $O(k x 4)$	5 7 5 _ 0	94					
Casing water ve	$\frac{\operatorname{A}(A)}{(A)}$	(D)	<u>• • 1</u> gai	1	<b>TATIC</b>	_₩		
	Volume = 2.52 gai				ELEVATION	The second secon	MEAN	
Minimum Purge	Volume = $c$ , $c$ gal	(3 well volu	nes)				SEA LEVEL	
Durgo Dota	e and Method: 📡	· · l ·	<i>(</i>					
-					1			
Physical A	ppearance/Comm	ents:	Silly b	<u>Y Ana.</u> 94	<u>. odo</u> y	•		
FIELD MI	EASUREMENTS	:					ų	*
Allowable	Range:	± 0.1	± 5%	±1°C				7
Time	Volume	pН	EC	Temp.	Turbidity	D.O.	ORP	
A 45	Removed (gal)	<u> </u>	(mS/cm)	(F  or  C)	(NTU)	(mg/L)	(mV)	-
958	. 15	7.65	. 130	17.3	>999	<u> </u>	<u>58</u>	-
959	1.50	<u>7.34</u> 7.28	.13/	17.6	7999 7999	4.56 4.51	55 57	-
/06/	3.0	7.30	.132	17.6	>999	5.73	60	
1002	3.75	7.34	.139	17.6	>999	s.17	63	-
1007	2.13		···2(	1,0		<u>~~~~</u> /		-
					1			-
					<u> </u>			
	e: <u>/005</u> Samp	- <del>+</del> -	F3M1z	N IN IN	s Λ_			

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Project: <u>40-05-27</u>					Sa	impled by:	Ĩ	2 35	>	
Location and Site Code (SITEID):					¢.	TF I.	+ 3			
Well No. (			,		•	ell Diamet			2	
Date (LOC						eather:		30 30		
Duit (LO	<i>GD1(11)</i> .			-						
CASING VOLU	ME INFORMA	TION:								
Casing ID (inch)		1.0	1.5	2.0	2.2	3.0 4.0	4.3	5.0 6.0	7.0	
Unit Casing Volum	ne (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37 0.65	0.75	1.0 1.5	2.0 2.6	
<u>PURGING INFC</u> Measured Well I		DEPTH)	2	0.5	; ; /	ft.				
Measured Water					76	ft.		<b>V</b>		2
	• •	• •	-					B I ELEVA	, .	
Length of Static	water Column (	(I)	3)	(C)	(D)	- 14. Hz	0   I	(MPEI		
Casing Water Vo						1	STATIC ELEVATION	<b>•</b>		
Minimum Purge	Volume =	<b>,29</b> g	al (3 well	volum	es)	-		V	MEAN SEA	
	1 X # 11	<b>1</b>			n. 1				LEVEL	
Purge Date Physical A	e and Meth	iod: _			Va.les	,	1			
Physical A	ppearance	/Comr	nents:		lowdy	pedo	oder			
FIFI D MI	EASUREN	<b>IENTS</b>	ζ.			8			ų	
Allowable		11.71 1 1 2	± 0.	.1	± 5%	±1°C				N.
Time	Volur	ne	pF	I	EC	Temp.	Turbidit	y D.O.	ORP	-
	Removed	l (gal)			(mS/cm)		(NTU)		(mV)	
1117			7.		76.7		121	9.25	- 89	
1119	23			32	75.9	11.7	88.(	4.70	-95	
1/2/	3		7.		79.9	11.6	55.6	6.33	-95	
1122	4		7.	30	74.4	11.9	88.( 55.9 37.8	6.33 3 5.83	-95 -95 -99	
1125	¥. <b>j</b>	[Ø	2.	26	74.7	11.5	31.7	6.08	- 99	
			<u> </u>			-	<u> </u>			4
										1
		<del></del>					<u> </u>			ł
	1		. <u> </u>							]
	1100					- elt -	^			

Sample Time: 1129 Sample ID: <u>**F3m23140**</u>

Project:	40-05-=	27	Sa	mpled by:	<u>∧vh</u>	bF		
Location a	nd Site Code (SI	TEID):			J+3 _			
Well No. (	LOCID): TE3	mw-F			er (SDIAM			
Date (LOC	(GDATE): 6	Izolah			rs sum			
	<b>3D</b> ATL)		<b>***</b>	Jutii		1	<u></u>	
CASING VOLU	ME INFORMATION:							
Casing ID (inch)	1.0	1.5 2.0	) 2.2	3.0 4.0	4.3 5.	) 6.0	7.0	
Unit Casing Volur	ne (A) (gal/ft) 0.04	0.09 0.1	6 0.2	0.37 0.65	0.75 1.	0 1.5	2.0 2.6	<u>5</u>
				·				
PURGING INFO		~	01		T	A A		
	Depth (B) (TOTDEPTH)			t.	C L			
	Level Depth (C) (STATI			ft. fr.		В		
Length of Static	Water Column (D) = $\frac{20}{(11)}$	<u>86 - 17.6</u>	<u>3 = 7.23</u>	ft. H <sub>2</sub> C		ELEVA (MPEI		
	(*	J) (C)			D			
Casing Water Vo	plume (E) = $\underline{o, lb}$ x	1:23 =	1.15 gal			▼		
	(A)	(D)		L	STATIC ELEVATION		r	
Minimum Purge	Volume = <b><u>3,49</u></b> g	al (3 well volu	mes)		ELEVATION	V	MEAN	
		,	,				SEA LEVEL	
Purge Date	e and Method:	6/50	106	haile				
Physical A	ppearance/Comr	nents.	net			Fe.3+	= 4,8	mali
1 Hysteat 74	ppeurance, com		PV 40	DU0				1
FIELD MI	EASUREMENTS	5:						
Allowable	· · · · · · · · · · · · · · · · · · ·	$\pm 0.1$	· · · · · · · · · · · · · · · · · · ·	±1°C	·		1	1
Time	Volume	pH	EC	Temp.	Turbidity	D.O.	ORP (mV)	
11:18	Removed (gal)	7.57	(mS/sm) 9!2	(F or C)		(mg/L)	(mV)	
11:20	2	7.53	88.9	11.)	99.0 6a1	5,04 4.55	125 36	
11:22	3	7.53	98.)	16.4	460	2.9)	- 44	
11:24	.4	2.50	680	10.4	347	2.92	-57	
F	*					•		
		· · · · ·						
		1						

Sample Time: 11:26 Sample ID: **TF3M** 1>6 140**A** 

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Project:	40-05	22	Sa	ampled by:	NVH	DF		
Location a	nd Site Code (SI	ΓEID):	<i>Par</i>	Je Forms	1 + 3			
	LOCID):					): 2 <sup>1</sup> /		
	GDATE): 6/				75° Su			
Dute (LOV	<b>30</b> 1111)	24/08			<u> </u>	arrag -		
CASING VOLU	ME INFORMATION:							
Casing ID (inch)	1.0	1.5 2.0		3.0 4.0	4.3 5.	0 6.0	7.0	
Unit Casing Volum	ne (A) (gal/ft) 0.04	0.09 0.1	6 0.2	0.37 0.65	0.75 1.	0 1.5	2.0 2.6	
PURGING INFO	DDM ATIONI			<b></b>	<b>_</b>		-	
		8	o he				i	
	Depth (B) (TOTDEPTH)	16 estis		ft.				
	Level Depth (C) (STATE			_ft		B		
Length of Static	Water Column (D) = $\frac{19}{(B)}$	<mark>65 - <u>1</u>7.y</mark>	<u>B = 6.19</u> (D)	ft. H <sub>2</sub> (		ELEVA (MPEI		
Cooling Water Ve	$h_{\rm max}(E) = 0.1k$	6.12	n 82	1				
Casing water ve	$blume(E) = \underbrace{0.16}_{(A)} x \underbrace{1}_{(A)}$	(D)	ga		STATIC			
	1				ELEVATION		MEAN	
Minimum Purge	Volume = <b>2.96</b> ga	ıl (3 well volu	mes)	-		<u> </u>	SEA LEVEL	
_		1 1	, ,	<i>A</i> .			DETER	
Purge Date	e and Method:	0/20/	105	bailes				
Physical A	e and Method:	nents:	Very St	light ad	<i>n</i>	{	<u>Fest</u> =	· 3.7 mg/d
	EASUREMENTS			ø				•
Allowable		$\pm 0.1$	± 5%	±1°C				
Time	Volume	pH	EC	Temp.	Turbidity	D.O.	ORP	7
	Removed (gal)	-	( <b>m</b> S/ <b>s</b> m)	(F or C)	(NTU)	(mg/L)	(mV)	
9:57		1.9)	0.109	11.8	89.2	4,40	251	
9:58	2	7.05	0.)11	)).,)	1,18.0	334	232	
9:59	3	7:69	0.112		107.0	3.13	204	-
10:6)	Ч	7.12	0.113	10.5	99.3	2.92	185	_
10:03	ġ	7.15	0,1)2	)0.6	97.5	286	118	-
	L					1		-
L			1					
~ . m			an '30 an age an		5			

Sample Time: 10:06 Sample ID: TF3m129130A

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Project: _	40-05-2		Sar					
Location a	and Site Code (SI	TEID):	Tar	nde Form	e 1+=	3		
	(LOCID): <u>TE</u>							
	$(\text{LOOID}): \underline{6/}$							
	$\mathbf{GDATE}).  \underline{\mathbf{D7}}$	20/00	VV C		s sun	d'and		
<u>ASING VOLU</u>	UME INFORMATION:	~	*					
Casing ID (inch)	1.0	1.5 2.		3.0 4.0	1	.0 6.0	7.0	
Jnit Casing Volur	me (A) (gal/ft) 0.04	0.09 0.1	0.2	0.37 0.65	0.75	.0 1.5	2.0 2.0	5}
	Depth (B) (TOTDEPTH)							
	r Level Depth (C) (STATE		/ -			B B ELEVA	TION	
ength of Static	e Water Column (D) = $\frac{2\rho}{(B)}$	<b>:20</b> - <b>14.</b> (C)	<u>22= 5.93</u> ) (D)	ft. H <sub>2</sub> C		(MPEL		
Casing Water V	$\operatorname{colume}(E) = \checkmark I \diamond x$	>. ″? √ =	1/45 S ant	1	111	19997		
Ainimum Purge	$Volume (E) = \frac{0.16}{(A)} \times \frac{1}{(A)}$ e Volume = <u>2.86</u> ga	al (3 well volu	imes)		STATIC ELEVATION	V	MEAN SEA LEVEL	
Minimum Purge Purge Dat	e Volume = <u><b>2.86</b></u> ga te and Method:	(3) al (3 well volu 8/20	umes) 166				SEA LEVEL	
Minimum Purge Purge Dat	e Volume = <u><b>2.86</b></u> ga te and Method:	(3) al (3 well volu 8/20	umes) 166			ν V ΣFe	SEA LEVEL	0.0 m
<sup>Ainimum Purge</sup> Purge Dat Physical A	e Volume = <u><b>2.86</b></u> ga te and Method: Appearance/Comm	(3) well volu <b>8/20</b> hents:	umes) 166			ν ΓFe	SEA	0.0 m
Minimum Purge Purge Dat Physical A FIELD M	e Volume = <u><b>2.86</b></u> ga te and Method: Appearance/Comm	(3) well volu <b>6/20</b> hents:	umes) /66 , Class m	o odre		 ΣFe	SEA LEVEL	0.0 m
۸inimum Purge Purge Dat Physical A FIELD M	e Volume = <u><b>2.86</b></u> ga te and Method: Appearance/Comm	(3) well volu <b>6/20</b> hents:	umes) 166				SEA LEVEL	0.0 m
<sup>Ainimum Purge</sup> Purge Dat Physical A FIELD M <u>Allowable</u>	e Volume = <u><b>2.86</b></u> ga te and Method: Appearance/Comm IEASUREMENTS e Range:	$\frac{b}{20}$ al (3 well volume of the second	umes) /66 (lon n ± 5%	±1°C Temp.			SEA LEVEL	0.0 m
Minimum Purge Purge Dat Physical A FIELD M Allowable Time <b>9:30</b>	e Volume = <b><u>2.86</u></b> ga te and Method: <u></u> Appearance/Comm IEASUREMENTS e Range: Volume	$\frac{\delta}{20}$ $\frac{\delta}{20}$ nents:	السes) / 6 6 / 6 6 / 6 6 ± 5% EC (هS/om) 0.03 ٦	±1°C Temp. (F or C) <b>[2.0</b>	ELEVATION	D.O. (mg/L) <b>5.31</b>	SEA LEVEL 3+] : ORP (mV) 2.28	0.0 m
Minimum Purge Purge Dat Physical A FIELD M Allowable Time <b>9:30</b> <b>9:32</b>	e Volume = <b><u>2.86</u></b> ga te and Method: Appearance/Comm IEASUREMENTS e Range: Volume Removed (gal)	$\frac{\delta}{20}$ nents: $\frac{1000}{200}$ $\pm 0.1$ pH $6.55$	± 5% EC (€S/€m) 0.093	±1°C Temp. (F or C) <b>[2.0</b> <b>}2.0</b>	ELEVATION   Turbidity (NTU)  53  32	D.O. (mg/L) <b>5.31</b> <b>3.62</b>	SEA         3+] :         ORP         (mV)         2.28         2.22	0.0 m
Minimum Purge Purge Dat Physical A FIELD M Allowable Time 9:30 9:32 9:34	e Volume = <u><b>2.86</b></u> ga te and Method: Appearance/Comm IEASUREMENTS e Range: Volume Removed (gal) 1 2 3	$\frac{\delta}{20}$ a) (3 well volumed of a second strain o	imes) /66 ± 5% EC (ه\$/\$m) 0.093 86.0	±1°C Temp. (F or C) 12.0 12.0 10.8	ELEVATION   Turbidity (NTU)  53  32  48	D.O. (mg/L) <b>5.31</b> 3.6-2 4,76	SEA         3+] :         ORP         (mV)         228         222         223	0.0 m
Ainimum Purge Purge Dat Physical A FIELD M Allowable Time 9:30 9:32 9:34 9:34 0:36	e Volume = <u><b>2.86</b></u> ga te and Method: Appearance/Comm IEASUREMENTS e Range: Volume Removed (gal) 1 2 3 3 3.5	(b) al (3 well volu 5/20 ments: $\pm 0.1$ pH 6.55 6.91 6.93	imes) /66 	±1°C Temp. (F or C) <b>12.0</b> <b>12.0</b> <b>10.8</b> <b>10.7</b>	ELEVATION   Turbidity (NTU)  53  32  48  080	D.O. (mg/L) <b>5.31</b> <b>3.62</b> <b>4,96</b> <b>4,99</b>	SEA LEVEL 3+] : ORP (mV) 228 222 223 228	0.0 ym
Minimum Purge Purge Dat Physical A FIELD M Allowable Time 9:30 9:32 9:34	e Volume = <u><b>2.86</b></u> ga te and Method: Appearance/Comm IEASUREMENTS e Range: Volume Removed (gal) 1 2 3	$\frac{\delta}{20}$ a) (3 well volumed of a second strain o	imes) /66 ± 5% EC (ه\$/\$m) 0.093 86.0	±1°C Temp. (F or C) 12.0 12.0 10.8	ELEVATION   Turbidity (NTU)  53  32  48	D.O. (mg/L) <b>5.31</b> 3.6-2 4,76	SEA         3+] :         ORP         (mV)         228         222         223	0.0 m
Minimum Purge Purge Dat Physical A FIELD M Allowable Time 9:30 9:32 9:34 9:34 9:36	e Volume = <u><b>2.86</b></u> ga te and Method: Appearance/Comm IEASUREMENTS e Range: Volume Removed (gal) 1 2 3 3 3.5	(b) al (3 well volu 5/20 ments: $\pm 0.1$ pH 6.55 6.91 6.93	imes) /66 	±1°C Temp. (F or C) <b>12.0</b> <b>12.0</b> <b>10.8</b> <b>10.7</b>	ELEVATION   Turbidity (NTU)  53  32  48  080	D.O. (mg/L) <b>5.31</b> <b>3.62</b> <b>4,96</b> <b>4,99</b>	SEA LEVEL 3+] : ORP (mV) 228 222 223 228	0.0 jm
Minimum Purge Purge Dat Physical A FIELD M Allowable Time 9:30 9:32 9:34 9:34 9:36	e Volume = <u><b>2.86</b></u> ga te and Method: Appearance/Comm IEASUREMENTS e Range: Volume Removed (gal) 1 2 3 3 3.5	(b) al (3 well volu 5/20 ments: $\pm 0.1$ pH 6.55 6.91 6.93	imes) /66 	±1°C Temp. (F or C) <b>12.0</b> <b>12.0</b> <b>10.8</b> <b>10.7</b>	ELEVATION   Turbidity (NTU)  53  32  48  080	D.O. (mg/L) <b>5.31</b> <b>3.62</b> <b>4,96</b> <b>4,99</b>	SEA LEVEL 3+] : ORP (mV) 228 222 223 228	0.0 ym
Minimum Purge Purge Dat Physical A FIELD M Allowable Time 9:30 9:32 9:34 9:34 9:36	e Volume = <u><b>2.86</b></u> ga te and Method: Appearance/Comm IEASUREMENTS e Range: Volume Removed (gal) 1 2 3 3 3.5	(b) al (3 well volu 5/20 ments: $\pm 0.1$ pH 6.55 6.91 6.93	imes) /66 	±1°C Temp. (F or C) <b>12.0</b> <b>12.0</b> <b>10.8</b> <b>10.7</b>	ELEVATION   Turbidity (NTU)  53  32  48  080	D.O. (mg/L) <b>5.31</b> <b>3.62</b> <b>4,96</b> <b>4,99</b>	SEA LEVEL 3+] : ORP (mV) 228 222 223 228	0.0 m

Sample Time: <u>9.'40</u> Sample ID: <u>TP3m128) MOR</u>

Page	of	
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	40-0	5-27	S	ampled by:	NVH	DF		
Location a	nd Site Cod	le (SITEID)	: Pan	h Imm	1+3	•		
		TF3 mw		•			]	
Date (LOC	GDATE):	\$120/0	۸	veather:	75 G	www.y	······	
CASING VOLU	ME INFORMAT	<u>'ION:</u>						
Casing ID (inch)		1.0 1.5	2.0 2.2	3.0 4.0	4.3 5.	0 6.0	7.0	
Jnit Casing Volun	ne (A) (gal/ft)	0.04 0.09	0.16 0.2	0.37 0.65	0.75 1.	0 1.5	2.0 2.6	
				f				
PURGING INFO	DRMATION:				Î	<b>A A</b>		
vieasured Well I	Depth (B) (TOTD	DEPTH)	22.20	_ft.	C			
Measured Water	Level Depth (C)	(STATDEP)	16.33	_ft.	~	В		
Length of Static	Water Column (E	D) = <u>2230</u> - <u>)</u> (B)	<u> 6.33 - 5.8</u>	<b>7</b> ft.		ELEVA		
		(B)	(C) (D)	H <sub>2</sub> t		(MPEI	.EV)	
Coning Water W	-1	12 . <.97	_ nau	-o1				
Lasing water vo	$\operatorname{Diume}(E) \cong \underline{\mathcal{Q}}_{\mathrm{vir}}$ $(A$	<u>16                                    </u>	= <u>v. 7 7</u>		STATIC			
		0.			ELEVATION			
Minimum Purge	Volume = $2$	<b>8</b> gal (3 well	volumes)	-		<u> </u>	MEAN SEA	
							LEVEL	
			* * * *					
Purge Date	e and Metho	od:	6/20/06	bai	لام			
Purge Date Physical A	e and Metho	od:	5/20/06 shig	bou ht odge	لام	Fe	3+ = 0.4	h
		od:	6/20/06 shig	bai ht ocn	4	Fe	<sup>3+</sup> = 0.4	m
FIELD MI	EASUREM	ENTS:	7		ke,	Fe	3+ = 0.4	h
FIELD MI Allowable	EASUREM	ENTS: $\pm 0.$	$\frac{1}{\pm 5\%}$	±1°C				m
FIELD MI	EASUREM Range:	ENTS: $\begin{array}{c} \pm 0.\\ ne & pH \end{array}$	$\frac{1 \pm 5\%}{EC}$	±1°C Temp.	Turbidity	D.O.	ORP	m
FIELD MI <u>Allowable</u> Time	EASUREM	ENTS: $\pm 0.$ ne pH (gal)	1 ± 5% EC (mS/cm	$ \begin{array}{c} \pm 1^{\circ}C \\ \text{Temp.} \\ \text{(F or C)} \end{array} $	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)	m
FIELD MI <u>Allowable</u> Time	EASUREM Range: Volum Removed	ENTS: <u>± 0.</u> ne pH (gal) <b>1.6</b>	1 ± 5% EC (mS/cm	$ \begin{array}{c} \pm 1^{\circ}C \\ \text{Temp.} \\ \text{(F or C)} \\ \hline \text{(F or C)} \\ \hline \text{(F or C)} \\ \hline \end{array} $	Turbidity (NTU) <b>98.9</b>	D.O. (mg/L) <b>7.67</b>	ORP (mV) <b>159</b>	m.
FIELD MI Allowable Time	EASUREM Range: Volum Removed	ENTS: ± 0. he pH (gal) <b>3.6</b> <b>7.9</b>	1 ± 5% EC (mS/cm <b>70.5</b>	±1°C Temp. (F or C) ).£ ).2 ).2	Turbidity (NTU) <b>98.9</b>	D.O. (mg/L) <b>7.67</b> <b>3.05</b>	ORP (mV) <b>159</b> <b>1</b> 22	m
FIELD MI Allowable Time 11:44, 11:44, 11:49 11:49 11:52	EASUREM Range: Volum Removed	ENTS: ± 0. ne pH (gal) <b>3.6</b> <b>7.9</b> <b>7.9</b>	1 ± 5% EC (mS/cm 70.5 1 89.9 5 -96.7	±1°C Temp. (F or C) ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).	Turbidity (NTU) 98-9 99-0 8-3-0	D.O. (mg/L) <b>7.67</b> <b>3.05</b> <b>2.6</b> <b>2.57</b>	ORP (mV) 159 122 102	h
FIELD MI Allowable Time	EASUREM Range: Volum Removed	ENTS: ± 0. he pH (gal) <b>3.6</b> <b>7.9</b>	1 ± 5% EC (mS/cm 70.5 1 89.9 5 -96.7 95.3	±1°C Temp. (F or C) )).5 )).5 )0.7 ]0.3	Turbidity (NTU) <b>98.9</b>	D.O. (mg/L) <b>7.67</b> <b>3.05</b>	ORP (mV) <b>159</b> <b>1</b> 22	m
FIELD MI Allowable Time 11:44, 11:44 11:49 11:49 11:52	EASUREM Range: Volum Removed	ENTS: ± 0. ne pH (gal) <b>3.6</b> <b>7.9</b> <b>7.9</b> <b>7.9</b> <b>7.9</b>	1 ± 5% EC (mS/cm 1 70.5 1 89.9 5 -96.7 95.3	±1°C Temp. (F or C) ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).	Turbidity (NTU) 98.9 99.0 93.6 61.1	D.O. (mg/L) <b>7.67</b> <b>3.05</b> <b>2.6</b> <b>2.5</b>	ORP (mV) 159 122 102	h
FIELD MI Allowable Time 11:44, 11:44 11:49 11:49 11:52	EASUREM Range: Volum Removed	ENTS: ± 0. ne pH (gal) <b>3.6</b> <b>7.9</b> <b>7.9</b> <b>7.9</b> <b>7.9</b>	1 ± 5% EC (mS/cm 1 70.5 1 89.9 5 -96.7 95.3	±1°C Temp. (F or C) ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).	Turbidity (NTU) 98.9 99.0 93.6 61.1	D.O. (mg/L) <b>7.67</b> <b>3.05</b> <b>2.6</b> <b>2.5</b>	ORP (mV) 159 122 102	m
FIELD MI Allowable Time 11:44, 11:44 11:49 11:49 11:52	EASUREM Range: Volum Removed	ENTS: ± 0. ne pH (gal) <b>3.6</b> <b>7.9</b> <b>7.9</b> <b>7.9</b> <b>7.9</b>	1 ± 5% EC (mS/cm 1 70.5 1 89.9 5 -96.7 95.3	±1°C Temp. (F or C) ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).	Turbidity (NTU) 98.9 99.0 93.6 61.1	D.O. (mg/L) <b>7.67</b> <b>3.05</b> <b>2.6</b> <b>2.5</b>	ORP (mV) 159 122 102	
FIELD MI Allowable Time 11:44, 11:44 11:49 11:49 11:52	EASUREM Range: Volum Removed	ENTS: ± 0. ne pH (gal) <b>3.6</b> <b>7.9</b> <b>7.9</b> <b>7.9</b> <b>7.9</b>	1 ± 5% EC (mS/cm 1 70.5 1 89.9 5 -96.7 95.3	±1°C Temp. (F or C) ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).5 ).	Turbidity (NTU) 98.9 99.0 93.6 61.1	D.O. (mg/L) <b>7.67</b> <b>3.05</b> <b>2.6</b> <b>2.5</b>	ORP (mV) 159 122 102	h

Sample Time: 1):54 Sample ID: **TF3m13316@A** 

Page	of	

Project:	40-05-27		Sampled by:	JC	PC		
Location a	nd Site Code (SI	TEID): T	FIBS		•		
	LOCID): TF.		Well Diamet	or (SDIANA)	. V"		
					). <u>/</u>		
Date (LOC	$GDATE): \int \left( \frac{2}{2} \right)^{2}$	100	Weather:	Sunny,	80-		
CASING VOLU	ME INFORMATION:			400 H			
Casing ID (inch)	1.0	1.5 2.0 2.	2 3.0 4.0	42 50	60	70	1
Unit Casing Volum	··· · · · · · · · · · · · · · · · · ·	0.09 0.16 0.		4.3 5.0 0.75 1.0		7.0 2.0 2.6	
PURGING INFO		*					
Measured Well D	Depth (B) (TOTDEPTH)	76.02	ft.	C	T T		
			ft. ~~~				
Length of Static	Level Depth (C) (STATE Water Column (D) =(E) Jume (E) = $\begin{array}{c} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 &$		<b>. 6°</b> <sub>ft.</sub>		B I ELEVATIO		
	0.65	(C)	(D) H <sub>2</sub> C		(MPELEV		
Casing Water Vo		11 6: 17	F154			T 24.	3.7 mg/l
Cashig water vo		(D)	E Bai	STATIC		te	
	$Volume = \frac{22.62}{ga}$			ELEVATION	4	MEAN	
Minimum Purge	$Volume = \underbrace{2 \cdot c_*}_{g_2} g_3$	al (3 well volumes)			¥	- SEA LEVEL	
Durgo Data	e and Method:	Bailer					
÷			5 N	10-1	A 1	/1	
Physical A	ppearance/Comn	ients: <u>Jilty</u>	Orange, P	21000	or in	Susa	
FIELD ME	EASUREMENTS	:	, v				
Allowable	Range:	$\pm 0.1$ $\pm 5$		,			
Time	Volume	pH E	1 1	Turbidity	D.O.	ORP	
1010	Removed (gal)	- 65 (mS)	(m) (F or C)	(NTU) 509	(mg/L)	(mV)	
1319	4.0 9.0	7.20 94	9 13.2	501	5.49	-122	
1328	2.2	1.21 92	3 14	592	7.04	-99	
1331	16.0	7.23 93	······································	मुरुप	6.74	-100	
1334	20.0	7.25 90		371	7.63	-101	
(338	24.0	7.28 8:	7.6 11.1	218	8.64	-99	
1340	25.0	125 8	3.4 11.6	SIM	1.9 X	-16	
1341	26.0	7.26 81	. Z 11.4*	187	7.68	-97	
t	1.2 3 A		Aallila A	I [,			
Sample Time	e: <b>\337</b> Sam		M21140A	÷			

~~~	40-05	23	Sa	mpled by:	<u>Nv</u> M	DF		
	nd Site Code (SII	-						
					er (SDIAN	n		
	LOCID): TF3	. <sup>.</sup> .		•		L). <u> </u>		
Date (LOC	GDATE): 6	120/00	<u> </u>	eather:	<u>]</u>		<del></del>	
<u>CASING VOLU</u>	ME INFORMATION:			<b>~</b>				
Casing ID (inch)	1.0	1.5 2.0		3.0 4.0	++	.0 6.0	7.0	
Unit Casing Volum	ne (A) (gal/ft) 0.04	0.09 0.16	5 0.2	0.37 0.65	0.75 1	.0 1.5	2.0 2.6	]
PURGING INFO	DRMATION:					<b>4</b>		
Measured Well I	Depth (B) (TOTDEPTH)		<b>7.82</b> f	t.	Ċ			
Measured Water	Level Depth (C) (STATD	EP)	3.08	ft	~			
	Water Column (D) = $\frac{2}{(B)}$	_		Aft.		B ELEVA		
<u> </u>	(B	) (C)	(D)	H <sub>2</sub> C		(MPEL	ÆV)	
a	ka	lunn	a < 2 .					
Casing Water Vo	blume (E) = $\underline{\textbf{D.b5}}_{(A)} \times \underline{\textbf{A}}_{(A)}$	(D)	gai gai		STATIC			
	- ·				ELEVATION			
Minimum Durga	Volume = <b>28.34</b> ga	d (3 well volu	nes)			V	MEAN	
vinimum ruige			)				SEA	
	¥.			_ #			SEA LEVEL	
	¥.			briles		<b>_</b>		
	¥.			bailes	, odor			همر تو
	e and Method:			bailes ry petre	, odor	• •	LEVEL	ہ حسر ت
Purge Date Physical A FIELD MI	e and Method: ppearance/Comm EASUREMENTS	<b>6/30</b> nents:	los heav	<i>a</i> -	, odo		LEVEL	ا الاسر الاتين
Purge Date Physical A FIELD MI Allowable	e and Method: ppearance/Comm EASUREMENTS Range:	6/30 nents: : 	106 hear ± 5%	±1°C			LEVEL	ہ جنہے
Purge Date Physical A FIELD MI	e and Method: ppearance/Comm EASUREMENTS Range: Volume	<b>6/30</b> nents:	108 hear ± 5% EC	±1°C Temp.	Turbidity		LEVEL	*
Purge Date Physical A FIELD MI Allowable Time	e and Method: appearance/Comm EASUREMENTS Range: Volume Removed (gal)	<i>6/30</i> nents: : ± 0.1 pH	± 5% EC (mS/em)	±1°C Temp. (F or C)	Turbidity (NTU)	(mg/L)	ORP (mV)	
Purge Date Physical A FIELD MI Allowable Time	e and Method: ppearance/Comm EASUREMENTS Range: Volume Removed (gal)	<i>6/30</i> nents: ± 0.1 pH - <b>7.5</b> )	± 5% EC (mS/em) 0.107	±1°C Temp. (F or C) /o.7	Turbidity (NTU) <b>193.0</b>	(mg/L) <b>7.25</b>	LEVEL Fe <sup>3+</sup> ORP (mV) <b>189</b>	
Purge Date Physical A FIELD MI Allowable Time ID: 32 ID: 40	e and Method: appearance/Comm EASUREMENTS Range: Volume Removed (gal) 5 10	6/30 nents: ± 0.1 pH <b>7.5</b> ] <b>7.3</b> 6	± 5% EC (mS/em) 0.107 0.108	±1°C Temp. (F or C) /o.7 /o.7	Turbidity (NTU) 193.0 133.0	(mg/L) 7.25 4.9)	ORP (mV) 189 . 10	
Purge Date Physical A FIELD MI Allowable Time <b>10:32</b> 10:40 10:45	e and Method: ppearance/Comm EASUREMENTS Range: Volume Removed (gal) 5 10 15	6/30 nents: ± 0.1 pH 7.5) 7.36 7.40	± 5% EC (mS/em) 0.107 0.108 0.108 0.109	±1°C Temp. (F or C) /0.7 /0.7	Turbidity (NTU) 193.0 133.0 118.0	(mg/L) 7.25 4.9) 4.75	LEVEL Fe <sup>3+</sup> ORP (mV) <b>)</b> 89 . )0 5	
Purge Date Physical A FIELD MI Allowable Time 10:32 10:40 10:45 10:43	e and Method: ppearance/Comm EASUREMENTS Range: Volume Removed (gal) S NO NS	6/20 nents: ± 0.1 pH 7.5) 7.36 7.40 7.40	± 5% EC (mS/em) 0.107 0.108 0.109 0.109	±1°C Temp. (F or C) /0.7 /0.7 10.7 10.8	Turbidity (NTU) 193.0 133.0 118.0 137.0	(mg/L) 7.25 4.9) 4.75 5.34	LEVEL Fe <sup>3+</sup> ORP (mV) )89 . 10 5 . 20	
Purge Date Physical A FIELD MI Allowable Time 10:32 10:40 10:45 10:57	e and Method: appearance/Comm EASUREMENTS Range: Volume Removed (gal) 5 10 15 29 25	6/30 nents: ± 0.1 pH 7.5) 7.5) 7.96 7.40 7.44	± 5% EC (mS/m) 0.107 0.108 0.109 0.109 0.109	±1°C Temp. (F or C) /0.7 /0.7	Turbidity (NTU) 193.0 133.0 118.0	(mg/L) 7.25 4.9) 4.75	LEVEL Fe <sup>3+</sup> ORP (mV) 189 . 10 5 . 20 .))	
Purge Date Physical A FIELD MI Allowable Time 10:32 10:40 10:45 10:43	e and Method: ppearance/Comm EASUREMENTS Range: Volume Removed (gal) 5 10 15	6/20 nents: ± 0.1 pH 7.5) 7.36 7.40 7.40	± 5% EC (mS/em) 0.107 0.108 0.109 0.109	±1°C Temp. (F or C) /0.7 /0.7 /0.7 /0.8 /0.8	Turbidity (NTU) 193.0 133.0 118.0 137.0 131.0	(mg/L) 7.25 4.9) 4.75 5.34 4.8	LEVEL Fe <sup>3+</sup> ORP (mV) )89 . 10 5 . 20	
Purge Date Physical A FIELD MI Allowable Time 10:32 10:40 10:45 10:57	e and Method: appearance/Comm EASUREMENTS Range: Volume Removed (gal) 5 10 15 29 25	6/30 nents: ± 0.1 pH 7.5) 7.5) 7.96 7.40 7.44	± 5% EC (mS/m) 0.107 0.108 0.109 0.109 0.109	±1°C Temp. (F or C) /0.7 /0.7 /0.7 /0.8 /0.8	Turbidity (NTU) 193.0 133.0 118.0 137.0 131.0	(mg/L) 7.25 4.9) 4.75 5.34 4.8	LEVEL Fe <sup>3+</sup> ORP (mV) 189 . 10 5 . 20 .))	
Purge Date Physical A FIELD MI Allowable Time 10:32 10:40 10:45 10:57	e and Method: appearance/Comm EASUREMENTS Range: Volume Removed (gal) 5 10 15 29 25	6/30 nents: ± 0.1 pH 7.5) 7.5) 7.96 7.40 7.44	± 5% EC (mS/m) 0.107 0.108 0.109 0.109 0.109	±1°C Temp. (F or C) /0.7 /0.7 /0.7 /0.8 /0.8	Turbidity (NTU) 193.0 133.0 118.0 137.0 131.0	(mg/L) 7.25 4.9) 4.75 5.34 4.8	LEVEL Fe <sup>3+</sup> ORP (mV) 189 . 10 5 . 20 .))	

Sample Time: 11:02 Sample ID: TF3CE3130A

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## **Equipment Calibration Log**

1

Instrumen	at Name:	=Pm H	<u> </u>		
Model Nu	mber:	4-22	Horiba		
Date	First Standard Concentration	First Standard Reading	Second Standard Concentration	Second Standard Reading	Comments
3/9	U,00	3.98	4.00	4.00	Cond. out changed solution.
3-10	4.00	3.87	4.00	4.00	
3-13	4,00	4.06			
3/14	4.00 4.0-	4.01	4	4-01	$\sim$
3/15		3.99			
3/10	4.00	<u> </u>			
3/17	4,00	4,00			
3-20	4.00	3.99			
3/21	4.05	4.00			
3-22	4.00	4,00			
3-23	400	3.95	- 4	3.99	
3-24	4.00	3:45	4.00	4.00	
3-27	4.00	3.91	4.00		
3-28	4.00	4.00			
4/11	4.00	66.V			
4-13	4.00	3.94	4.00	4.00	
5-22	4.00	3.99			
6-19	4.00	400			
6/20/06	4.00	3.99			

### Equipment Calibration Log

Instrumen	t Name:	FPM #	2			
Model Nu	mber: $H_{\partial}$	riba U-	22			
Date	First Standard Concentration	First Standard Reading	Second Standard Concentration	Second Standard Reading	Comments	
3/9	4,00	3.99				
3-10	4.00	4.00				
3-10 5-9 6-19	4.00	3.77				
6-19	4.00	4.00				
6/20/06	4.00	3.99	4.00	4.00	Goror 7 ( cuduction )- 12	. John
:					I	
				:		
ļ						
				• •		

AFCEE	CHAIN OF CUSTODY RECORD (AC 63200)
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COC#: \_4\_ SDG#: \_134\_ Cooler ID: \_A\_

esel	toad 3441	Phone: (315) 336-7721 Ext. 205		Comments (HOPN)															
Send Results to: Niels van Hoesel	FPM Group 153 Brooks Road Rome, NY 13441	e: (315) 3		ا 6 oz poly Total Sulfide <sup>Note 5</sup> ا 6 oz poly (ZnZn and			•			1	F	1	1	1	1		1	-	t
to: Nie	FPN 153 Ror	Phon		<sup>4 ston</sup> (Nitrate) <sup>note 4</sup>	1	1	F	I	t	1	t :	+ .	1	1		£	1	1	;
Results			uested	Total Alkalinity <sup>note 3</sup> (zero headspace)		1				1			Ţ	-	I	1	1	ŀ	3
[ Send ]	1		Analyses Requested	I L amber SVOCs <sup>note 2</sup>	1	1	1	ŀ	2	2		ŀ	1	Γ.	t	ł		I	6
00			Analy	VOC <sup>note 1</sup> 40 mL vials (HCI)	3	3	3	3	3	3	3	£	3	3	3	3	3	3	3
and 3 Sampling	(	72262		No. of Containers	4	4	4	4	9	9	4	4	4	4	4	4	5	3	3
		06	•	Filt./UnFilt.	Unf.	Unf.	Unf.	Unf.	Unf.	Unf.	Unf.	Unf.	Unf.	Unf.	Unf.	Unf.	Unf.	Unf.	Unf.
Project Name: Griffiss AFB TF 1	forse	e: Jamy	Cant o	Ргезегуаціуе	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI	HCI
riffiss A	Sampler Name: David Forse			SACODE	N	N	N	N	z	N	Z	Ν	N	Z	z	ΗD	EB	AB	TB
ame: G	Name:	Sampler Signature:		ZBD/ZED	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
oject N	umpler 1	impler (		SMCODE	В	в	В	В	B	В	В	В	В	В	В	В	В	NA	NA
- br	1	Sã		XIATAM	WG	МG	МG	WG	ВМ	ЪМ	MG	WG	МG	МG	WG	WG	МQ	МQ	МQ
	Tel: (716) 691-2600			Time	1102	1339	1055	1033	0935	1005	1129	1126	1006	0940	1154	1154	0815	1107	0800
	Tel: (716			Date 2006	6/20	6/20	6/20	6/20	6/20	6/20	6/20	6/20	6/20	6/20	6/20	6/20	6/20	6/20	6/20
	e 106			Location ID (LOCID)	MW-CE	TF3MW21	WL-TF3MW-116	WL-TF3MW-117	WL-TF3MW-119R	WL-TF3MW-121R	WL-TF3MW-123	WL-TF3MW-126	WL-TF3MW-127	WL-TF3MW-128	WL-TF3MW-133	WL-TF3MW-133	FIELDQC	FIELDQC	FIELDQC
Ship to: Mark Nemec	Severn Trent Laboratories 10 Hazelwood Drive, Suit Amherst, NY 14228-2298	Carrier: STL courier.		Field Sample ID	TF3CE3130A	TF3M21140A	TF3M116140A	TF3M117130A	TF3M119R120A	TF3M121R120A	TF3M123140A	TF3M126140A	TF3M127130A	TF3M128140A	TF3M13316OA	TF3M13316OC	062006OE	062006OF	062006OR

Collect water levels at all wells that are not sampled.

SO = Soil WS - Surface water

NA = Not Applicable (only for AB/TB) PP = Peristaltic Pump BP = Bladder Pump SP = Submersible Pump SS = Split Spoon

TB = Trip Blank EB = Equipment Blank FD = Field Duplicate MS = Matrix Spike SD = Matrix Spike Duplicate

Daily Health and Safety Meeting Form
Date: 6-20-06 Time: 8:15
Location: FPM office (garage)
Weather Conditions: <u>85° Scang</u>
Meeting Type: Daily Health and Safety
Personnel Present: D. Forse, J. Damann, P. Grigliane, N. Van Koesel
Visitors Present:
Visitor Training:
PPE Required: Modified D
Possible risks, injuries, concerns: <u>Trip slip fall + insects (bees ticks, spikers)</u> .
Anticipated Releases to Environment (if so, describe and detail response action/control measures implemented):
Property Damage: None
Description (include sequence of events describing step by step how incident happened):
Analysis for, and Implementation of Corrective/Preventative Procedure to Prevent Future Occurrences (to be formulated by SSHO + FOM, approved by PM, and SSHO implemented):
None
Report made by (Name): Anio P Forse
SSHP Organization Title: Site Safety and Health Officer

#### **Daily Chemical Quality Control Report**

Project/Delivery Order Number: F41624-03-D-8601-0027 Date: 09/26/06

Project Name/Site Number: Griffiss Petroleum Spills Sites sampling (Tank Farms 1 and 3).

Weather conditions: Temperature: 62 Barometric reading: 30.01 Wind direction and speed: west 12 gusting 20 mph. Significant wind changes: none.

General description of tasks completed: Bailer sampling at Site Tank Farms 1 and 3 (TF3MW-21, -116, -117, -119R, -121R, -123, -126, -127, -128, -133, and TF3CE-3).

Explain any departures from the SAP or deviations from approved procedures during the day's field activities: none.

Explain any technical problems encountered in the field or field equipment/field analytical instrument malfunction: none.

Corrective actions taken or instructions obtained from AFCEE personnel: No corrective actions necessary.

Sampling shipment completed:  $\sqrt{\text{Yes}}$   $\square$  No LSL courier.

DCQCR Prepared by: Niels van Hoesel, FOM

Date: 26 September 2006

CQCC Signature: Date:

**ATTACHMENTS:** 

Checklist	Daily Chemical Quality Control Report Attachments
	✓ Field sampling forms
V	✓ Equipment Calibration Log
V	✓ Copies of COCs
	✓ SDG Table (See accompanying COCs)
V.	✓ Daily Health and Safety Meeting Form

Page	of

Project:	40-05-	27	Sar	Sampled by: DB / PC					
Location and Site Code (SITEID): TF3									
Well No. (LOCID): TF3WW-21 Well Diameter (SDIAM): 4 <sup>n</sup>									
Date (LOGDATE): 9/26/06 Weather: cloudy 60									
CASING VOLUME INFORMATION:									
Casing ID (inch)	1.0	1.5 2.0		3.0 4.0	4.3 5.0		7.0		
Unit Casing Volum	e (A) (gal/ft) 0.04	0.09 0.10	6 0.2	0.37 0.65	0.75 1.0	) 1.5	2.0 2.6		
PURGING INFO	RMATION:					AA			
	Pepth (B) (TOTDEPTH)	<b>~</b> 4			C				
		*							
	Level Depth (C) (STATI			1		B			
Length of Static V	Water Column (D) = 26	<u>-02</u> -1 <u>4.5</u> 3) (C)	<u>3</u> = <u>11.97</u> (D)	ft. H <sub>2</sub> C		ELEVAT (MPELI			
	``		. ,		D				
Casing Water Vo	lume (E) = $0.65$ x (A)	11.(9_=_	<u>7.59 gal</u>			♥			
	(A)	(D)		L	STATIC				
Minimum Purge	Volume = <b>22.8</b> g	al (3 well volu	mes)				MEAN — SEA		
	· · · · · · · · · · · · · · · · · · ·			. –	,		LEVEL		
Purge Date	and Method:	. *		aile.	19-	26-06	odor 2.8 my/2		
Physical A	e and Method:	nents,	al	oud.		netro			
i iiysicai A	ppearance/Conn	incints		oury -			oaor		
FIELD ME	EASUREMENTS	S:				ILON:	2.8 Mg/C		
Allowable	The second se	± 0.1		±1°C					
Time	Volume	pН	EC	Temp.	Turbidity	D.O.	ORP		
	Removed (gal)		(mS/cm)		(NTU)	(mg/L)	(mV)		
1019	<u> </u>	7.22	0.12	14.7	120	0.65	-113		
1022	8	7.15	0.12	14.6	180	0.85	- 111		
1025	12	7,15	0.12	14.4	140	0.97	-110		
1028	16 20	7.17	0.12	14.2	120 140	1.09	-112		
1033	23	7.27	0.12	14.1	)20	3.34	-116		
		<u> </u>		* * *					
			·····						
Sample Time	e: 1035 Sam	iple ID:	TF3M	2114 PA	<u>.                                    </u>				

Project:	40-05-4	27	Sa	mpled by:		25			
Location a	and Site Code (SI	ΓEID):				l.		-	
	(LOCID): TF3				er (SDIAM)	: 2 <sup>1</sup> 1			
	GDATE):2				62		l <u>ş</u>	-	
CASING VOLU	JME INFORMATION:	~							
Casing ID (inch)	1.0	1.5 2.0		3.0 4.0	4.3 5.0		7.0		
Unit Casing Volur	ne (A) (gal/ft) 0.04	0.09 0.10	<u>5   0.2  </u>	0.37 0.65	0.75 1.0	1.5	2.0 2	.6	
PURGING INFO	ORMATION:								
Measured Well	Depth (B) (TOTDEPTH)		21.97 f	ì.	C		ſ	errous;	3.2
Measured Water	Level Depth (C) (STATD	EP)	13.64	ft.		B			
Length of Static	Water Column (D) = $\frac{2l_{s}}{(B)}$	07 - 13.6 ) (C)	<u>4 = 3.43</u>	_ftH_20		ELEVAT			
	× .	, , ,	(D)		D				
Casing Water V	olume (E) = $\frac{0.16}{(A)} \times \frac{1}{(A)}$	<u>1-45</u> = _	I.IO gal			<b>V</b>			
					STATIC ELEVATION	V	MEAN		
Minimum Purge	e Volume = _ <b>3,5%</b> ga	l (3 well volu	nes)		I		- SEA LEVEL		
Purge Dat	e and Method:	<u>,</u> .		A riles					
Physical A	Appearance/Comm	nents:	5:14	Roma	Petr	n 21	es.	-	
				-View	1 24 1	<u> </u>	~		
FIELD M Allowable	EASUREMENTS	: ± 0.1	± 5%	±1°C					
Time	Volume	$\pm 0.1$ pH	$\pm 376$ EC	Temp.	Turbidity	D.O.	ORP		
	Removed (gal)	-	(mS/cm)		(NTU)	(mg/L)	(mV)		
1093	<u> </u>	7.51 7.39	13	14.2	<u> </u>	<u>. 29</u>	-125	·	
1044 1045	3	7.31	.  4 .14	14.2	<u>8</u> 6	.61 .77	-129 -120		
1047	4	7.30	.14	14.1	10	.70	-122		
								·····	
							· · · · · · · · · · · · · · · · · · ·		
Complete Trim	ne: <b>1050</b> Samp	1. II. <b>X</b>	ES MIII	10 01					
sample 11m	ie. <u>jvzv</u> samp		1	1751					

Note: Attempt to get at least 5 sets of field measurements during purging. Sample may be collected after 3 to 5 well volumes have been removed and parameters have stabilized. Sample may be collected after 6 well volumes if parameters do not stabilize. VOC and gas sensitive (e.g. alkalinity,  $Fe^{2+}$ ,  $CH_4$ ,  $H_2S$ ) parameters should be sampled first.

Page \_\_\_\_ of \_\_\_

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Project:	40-05-2	7	Sai	mpled by:	DB	1PC		
Location a	nd Site Code (SIT	TEID):	T73					
Well No. (I	LOCID): TF3	3WW			er (SDIAM			
Date (LOC	GDATE): <u>9</u> /	z@ 01	<b>\$</b> We	eather:	60	1 ela	udy	
CASING VOLU	ME INFORMATION:		•					
Casing ID (inch)	1.0	1.5 2.0		3.0 4.0	4.3 5.0		7.0	7
Unit Casing Volume	e (A) (gal/ft) 0.04	0.09 0.1	6 0.2	0.37 0.65	0.75 1.1	0 1.5	2.0 2.6	
PURGING INFO	RMATION:				<b>^</b>			
Measured Well D	Depth (B) (TOTDEPTH)		2 <u>1.20</u> fi	t.	Ċ			
Measured Water	Level Depth (C) (STATD	EP)	13.19	n				
Length of Static V	Water Column (D) =	20 - 13.	19 = 8.01	_ft		B I ELEVAT (MPELI		
	(B)	· · · ·						
Casing Water Vo	$\operatorname{Hume}(E) = \underbrace{\mathbf{O.I}}_{(A)} x \underbrace{\mathbf{A}}_{(A)}$	(D) = -	1,25 gal		STATIC	<u> </u>		
					ELEVATION	W I	MEAN	
Minimum Purge	Volume = <u><b>3.84</b></u> ga	l (3 well volu	mes)			<u></u>	SEA LEVEL	
Purge Date	e and Method:	2.1		boiler	19.	-26-	02,	retro odor al Zzali
Physical A	ppearance/Comm	ents:	silly	1 oran	se 1	ne c	dor	ietro odor al
÷	4 1				0 it	· K74 * 1.		Bach
					<i>i</i> 4	un. 4	.0 mg/L	0
Allowable		$\pm 0.1$		±1°C	m. 1:1:	DO		
Time	Volume Removed (gal)	pН	EC (mS/cm)	Temp. (F or C)	Turbidity (NTU)	D.O. (mg/L)	ORP (mV)	
1102	1. O	7.27	0.16	155	46	(ing/L) 2.(8	<i>~ 118</i>	
1104	2.0	7.15		1	47	0.00	-116	
1106	3.0	7.15	0.16	15.7	63	0.00	-115	
1107	4.0	7.14	0.16	15.7	61	0.51	-113	
					·····			
L	[	L		[	<u> </u>		<u></u>	:
Sample Time	e: IllO Samp	le ID:	F3MIII	713 PA				

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Project:	40.05,	22	Sai	mpled by:	400			_	
Location a	nd Site Code (SIT	TEID):	TF3						
Well No. (	LOCID): 773	mW - 1	23 We	ell Diameto	er (SDIAM	): 21			
	GDATE): <b>9</b>				cluby allow:		mih 070	of rain	+Sun
CASING VOLU	ME INFORMATION:	$\sim$			- 6 a • •				
Casing ID (inch)	1.0	1.5         2.0           0.09         0.10	- <del>/</del>	3.0         4.0           0.37         0.65	4.3 5.0		7.0	2.6	
Unit Casing Volum	ne (A) (gal/ft) 0.04	0.09 0.1	<b>7</b> 0.2	0.37 0.65	0.75 1.0	) 1.5	2.0	2.6	
PURGING INFO	ORMATION:								
Measured Well I	Depth (B) (TOTDEPTH)		<u>20.5)</u> fi	t.				Ferrous	3.0
Measured Water	Level Depth (C) (STATD	EP)	13.69	ft.	$\sim 1$	B			
Length of Static	Water Column (D) = $20$ (B)	(C)	<u>6.92 (D)</u>	ft. <sub>Hz</sub> C		ELEVATI			
	blume (E) = $3.16$ x _ (A)				STATIC ELEVATION				
Minimum Purge	Volume – <b>3.23</b> ga	l (3 well volu	mes)	_		<u> </u>	MEAN — SEA LEVEL		
Purge Date	e and Method:	. ·		aily				8	
Physical A	e and Method:	ents:	<u>sik</u>	Naz	ready	-, Reh	0 00	<u>L</u> e	
FIELD MI	EASUREMENTS			¢/		v		-	
Allowable	Range:	± 0.1	± 5%	±1°C	ş				
Time	Volume	pН	EC	Temp.	Turbidity	D.O.	ORF	l.	
18 P. 6	Removed (gal)	<u>ግ ጽ</u> ቁ	(mS/cm)		(NTU)	(mg/L)	(mV	)	
959	. 75	7.87	83	15.6	170	2.96	-121	_	
/000	1.50	7.57 7.37 7.34	01	15.2	270	2.42 2.48 2.78	-12	4	
1001	3.0	1.2/	- 85-	15.1 15.0	10 17	1.18	-119 -111		
1003	3.75	7.33	87 87 87 81	17.0	3	3.09	-/08		
/ 00 /	<i><i>v</i> • 6 <i>I</i></i>	6.077	~ 5	1.1.0.		<u>~•vi</u>			
·····									
	1		<	. 14					

Sample Time: **1006** Sample ID: **TF3m12314PA** 

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Project:	40-05-7	2	Sar	npled by:		JUIF		
Location a	and Site Code (SII	TEID):				*		
	(LOCID): TF3			ell Diamete	er (SDIAM	): 24		
	GDATE): 9		We		600		+ Rein	
CASING VOLU	JME INFORMATION:				-	• •		
Casing ID (inch)	1.0	1.5 2.0	2.2	3.0 4.0	4.3 5.0	) 6.0	7.0	
Jnit Casing Volur	me (A) (gal/ft) 0.04	0.09 0.1	6 0.2	0.37 0.65	0.75 1.	) 1.5	2.0 2.6	]
URGING INFO	ORMATION:			[	<b>_</b>			
Aeasured Well	Depth (B) (TOTDEPTH)	1	<b>3.43</b> ft		C C	T T	Fer	1003. 0
	r Level Depth (C) (STATD	. 5	1:35	it.				
	Water Column (D) = $(B)$		= <u>6.68</u> (D)	ft.		B ELEVAT		
				H <sub>2</sub> C	D D	(MPEL)	EV)	
Casing Water V	$volume(E) = \underline{\qquad} x \underline{\qquad}$		<u>, 9 728 <sub>gal</sub></u>					
					STATIC ELEVATION	w l		
∕linimum Purge	e Volume = <b>2.1249</b> ga	l (3 well volu	mes)			Y	MEAN — SEA	
				1 - 1			LEVEL	
Purge Dat	te and Method:		<.11	ATT THE		1		
Physical A	Appearance/Comm	ients:	Dilly	131.00	<u>a 100</u>			
FIELD M	EASUREMENTS				rou	: 0.6 m	19/2	
Allowable		± 0.1	± 5%	±1°C	• • • • • • • • • • • • • • • • • • •			
Time	Volume	pН	EC	Temp.	Turbidity	D.O.	ORP	
10-Q	Removed (gal)	671	(mS/cm)	(F or C)	(NTU)	(mg/L)	(mV) 152	
0908 0909	.75	S. 71	93	16.7	720	0.0	86	
<u>09 09</u> 0910	2.25	6.27	• <i>11</i> .12	16.8 16.8	710 990	. 84	34	4
N971	<u>~~~~</u>	6.47	.1/	16.9	YOD	1.13	2	4
0912	3 3.75	6.50	./0	16.5		11.5	- ?	
917	4.5	6.50	.12	16.8	150	1.65	-22	r i i i i i i i i i i i i i i i i i i i
* 7						~		-
		[		]				
								_
		1	1	:	1	1	1	t

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#### WELL PURGING & SAMPLING FORM

Project:	40-25-	27	Sai	Sampled by: DB/PC			
Location a	nd Site Code (SI7	EID):	TF3			*	
	LOCID): <u> </u>			ell Diamet	er (SDIAM	): 2 <sup>h</sup>	
	GDATE):9	m/l.		athor		J. J.	r 0
Date (LOC	$\mathbf{DAIE}$ . <u>9</u>	-6 10	<u> </u>		el n	<u>uq*/</u>	60.
CASING VOLUM	ME INFORMATION:						
Casing ID (inch)	1.0	1.5 2.0	2.2	3.0 4.0	4,3 5.0	) 6,0	7.0
Unit Casing Volume	e (A) (gal/ft) 0.04	0.09 0.1	6 0.2	0.37 0.65	0.75 1.0	) 1.5	2.0 2.6
PURGING INFO	RMATION:						
Measured Well D	epth (B) (TOTDEPTH)	1	<b>9.19</b> _fi	-	C	T	
Measured Water	Level Depth (C) (STATD	EP)/	1.89	1. h			
	Water Column (D) =(B)					B I ELEVAT	ION
	(B)	(Ç)	(D)	H <sub>2</sub> C		(MPELI	EV)
O	t	+	848				
Casing water vo	$lume(E) = \underline{\qquad} x \underline{\qquad}$	(D) = -	gai	L	STATIC	<u> </u>	
	Volume = $2.5$ gal				ELEVATION	4	MEAN
Minimum Purge '	Volume = gai	(3 well volu	mes)			·····	SEA LEVEL
	135.11			1		19 7	5-01
Purge Date	e and Method:			<u> </u>	l/	1-2	0-08
Physical A	ppearance/Comm	ents:	sill	y provis	n /	no od	~
FIFI D MF	e and Method: ppearance/Comm EASUREMENTS			jra	M; 0.0	mgli	
Allowable		± 0.1			·		
Time	Volume	pН	EC	Temp.	Turbidity	D.O.	ORP
	Removed (gal)		(mS/cm)	(F or C)	(NTU)	(mg/L)	(mV)
0932	0.75	7.00	0.12	17.8	7999	2.13	20
0934	1.5	7.01	0.13	18.2	7999	0.31	24
0937	2.25	7.06	0:13	18.4	7.499	0:00	29
	3.0			10-1		<u>v.v-</u>	ame. k
	- 0m 27			A	۱ ۸		<u> </u>
Sample Time	e: <u>0938</u> Samp	le ID:	FF-3M[2	-IR 121	H		

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<i>u</i>		

Project:	40-05.	27	Sar	npled by:	NVH			
	nd Site Code (SIT							
	LOCID): TEE		<i>a</i> .	ell Diamete	er (SDIAM)	: 017	<u></u>	
	GDATE): <u>9</u> ]-	-			7020	- wi	indy +5,	row
CASING VOLU	ME INFORMATION:	<u> </u>	<b></b>					_
Casing ID (inch) Unit Casing Volum	e (A) (gal/ft) 0.04	1.5         2.0           0.09         0.16	0.2	3.0         4.0           0.37         0.65	4.3         5.0           0.75         1.0		7.0           2.0         2.6	
PURGING INFO		_			<b>^</b>		yers An a the second	Ng: 2.6
	Depth (B) (TOTDEPTH)				Ċ		Terre	w7
Measured Water	Level Depth (C) (STATD	EP)	<u>3.54</u>	t. ~~		в	Saraharan .	
Length of Static	Water Column (D) = $20$ (B)	<b>86 - 13.5</b> (C)	<b>Y</b> = <b>1.32</b> (D)	ft. <sub>Hz</sub> C	1 1 '	ELEVATI (MPELE		
	$\text{shume}(E) = \frac{0 1}{(A)} \cdot \mathbf{x}_{-}$	()			STATIC ELEVATION	V		
Minimum Purge	Volume = <b>3.51</b> gal	(3 well volum	nes)		<b>]</b>	V	MEAN SEA LEVEL	
Purge Date	e and Method:	. •		Sailer				
	.ppearance/Comm				5:1+9	da	¥	
FIELD MI	EASUREMENTS				0	/		
Allowable		$\pm 0.1$	± 5%	±1°C				
Time	Volume	pН	EC	Temp.	Turbidity	D.O.	ORP	
	Removed (gal)	~ ~ ~ ~	(mS/cm)	(F or C)	(NTU)	(mg/L)	(mV)	
1/17	<u> </u>	7.36	<u> 93</u>	14.9	400 M	2.62	-//6	
<u>///¶</u>	3		<u>87</u> 01	19.9	<u>\$6</u> 0	1. (3 2.90	-122	
1122	9	7.30 7.29 7.28	86 87	14.9	0	3.00	-121	
				]		<u>,,, , , , , , , , , , , , , , , , , , </u>		
Sample Time	e: <u>1124</u> Samp	le ID: <u>1</u>	<sup>2</sup> 3m126	14 PA.	·		• • • • • • • • • • • • • • • • • • • •	

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Project:	40-05-	27	Sa	mpled by:		DB/Pa		
Location a	nd Site Code (SIT	EID):				ŧ		
	LOCID): TF	_			er (SDIAM	D: $2^{1}$	0.04820-	
	GDATE):		K We	eather:	sun	160	0	
	(). <u> </u>	<u> </u>						
CASING VOLU	ME INFORMATION:							
Casing ID (inch)	1.0	1.5 2.0	2.2	3.0 4.0	4.3 5	.0 6.0	7.0	
Unit Casing Volum	ne (A) (gal/ft) 0.04	0.09 0.16	0.2	0.37 0.65	0.75 1	.0 1.5	2.0 2.6	
PURGING INFO	ORMATION:					- <u> </u>		
	Depth (B) (TOTDEPTH)	distant.	9.6< n	ŕ	c			·
	Level Depth (C) (STATD				_			
Length of Static	Water Column (D) = $\frac{19}{(B)}$	65 . 17.U	1 = 624			B I ELEVA	TION	
Length of Static	water Column $(D) = \frac{1}{(B)}$	(C)	(D)	- H <sub>2</sub> C		(MPEI	LEV)	
Casing Water V	plume (E) = $0.16$ x	6.zu _	0.99 ml					
Casing water ve	$\frac{(A)}{(A)}$	(D)	<b>•••</b>		STATIC			
Minimum Purga	Volume = <b>2.99</b> gai	1/3 welt volue	mec)		ELEVATION	Ý	MEAN	
willinnun i urge	volume - <u> ga</u> ga		lics)				SEA LEVEL	
Purge Date	e and Method:	. •	. á	baily	1	9-26.	-06 etro o my/2	
Physical A	e and Method:	ents:	Ć	lear	1 ev	The a	etos o	-
	-FF				150		11	м - <i>у</i>
	EASUREMENTS		( 50/	1100	(ron	-= 9,2	. mg/c	*
Allowable Time		± 0.1 pH	± 5% EC	±1°C Temp.	Turbidity	D.O.	ORP	
1 11110	Removed (gal)	1	(mS/cm)	(F or C)	1		1	
1400	0.75	7.28	82.6 81.7	14.0	70.7	7.37	51	
1401	1.50	7.25	81.7	18.9	108.0	6.63	32	
1402	2.25	7.23	80.9	13.5	148.1	5.35	16	
1403	3.0	7.27	82.0	13.5	126.0	5:12	23	
L					<u> </u>	<u> </u>		]
Sample Tim	e: <u>1405</u> Samp	ole ID:	1 F 3MI	2713	r A			

Page	of

Project: 40-05- 5	23	San	npled by:	<u>_</u>	S/P		
Location and Site Code (SIT					/		
Well No. (LOCID): <u>TF3h</u>				er (SDIAM	): 2"		
Date (LOGDATE): $9/2$			ather:		/ sur	1	
CASING VOLUME INFORMATION:					F		
	1.5 2.0	1	3.0 4.0	4.3 5.0		7.0	
Unit Casing Volume (A) (gal/ft) 0.04 (	0.09 0.16	0.2	0.37 0.65	0.75 1.0	) 1.5	2.0 2.6	·]
<u>PURGING INFORMATION:</u> Measured Well Depth (B) ( <b>TOTDEPTH</b> ) Measured Water Level Depth (C) ( <b>STATDE</b> Length of Static Water Column (D) = $222.7$ (B)	EP) 14,	<b>.17</b> f	i. fr		B ELEVAT (MPEL		
Casing Water Volume (E) = $\frac{\partial_{1}B}{(A)} \times \frac{\partial_{2}B}{(A)}$	<u>5.97</u> = <b>R</b> (D)	9 <b>95</b> gai		STATIC ELEVATION			
Minimum Purge Volume = <b>2.86</b> gal	(3 well volumes	s)			Y	MEAN SEA	
Purge Date and Method:		a //	båler ybro		926-	LEVEL	
Physical Appearance/Comme	ents:	Silt	4600	wor 6	<u>s od o</u>	Y	//
FIELD MEASUREMENTS:					11	on = c	0,0 mg/L
Allowable Range:	$\pm 0.1$	± 5%	±1°C				
Time Volume	pН	EC	Temp.	Turbidity	D.O.	ORP	
Removed (gal)		mS/cm)	(F or C)	(NTU)	(mg/L)	(mV)	
1414 0.75		69.3	14.0	205.0	10.22	184	
1415 1.50	7.53	71.2 70.3	13.7	60,5	5.96	150	
1415 1.50 1417 2.25			13.5	241.0	4.71	123	
1419 3.0	7.43	70.0	13.5	20.3	5.11	135	
	t					[	

Page	of	

Project:	40-05-	24	Sa	npled by:	DB	/ PC	· · · · · ·	
Location a	nd Site Code (SII	FEID):	TPS	3				
	LOCID):				er (SDIAM	): 2 <sup>1)</sup>		
	GDATE): <b>9</b>			eather:	. 1	Sum		* * *
CASING VOLU	ME INFORMATION:				• • • • •	· · ·		
Casing ID (inch)	1.0	1.5 2.0	1	3.0 4.0	4.3 5.4	i	7.0	_
Unit Casing Volum	e (A) (gal/ft) 0.04	0.09 0.1	0.2	0.37 0.65	0.75 1.	0 1.5	2.0 2.6	
PURGING INFC	DRMATION:							
Measured Well E	Depth (B) (TOTDEPTH)	22.	<b>20</b>	-	C	Ī		
Measured Water	Level Depth (C) (STATD	EP) 16	.48	n. /~				
	Water Column (D) = $\frac{22}{(B)}$		<u>8</u> = <u>5,72</u>	ft. H <sub>2</sub> C		B I ELEVAT (MPELI		
Minimum Purge Purge Date	$Polyme (E) = \frac{0.16}{(A)} \times \frac{4}{(A)}$ $Volume = 2.35 ga$ e and Method:	l (3 well volu	mes) ø	failes	STATIC ELEVATION	-26-0 oder	MEAN SEA LEVEL	
					/	iran	= 0.4	ms/L
Allowable	EASUREMENTS Range <sup>.</sup>	: ± 0.1	± 5%	±1°C		10 8		
Time	Volume	pH	EC	Temp.	Turbidity	D.O.	ORP	<b>.</b>
	Removed (gal)	-	(mS/cm)	(F or C)	(NTU)	(mg/L)	(mV)	
1302	0,75	6.30	51.3	13.9	54.3	8,10	231	_
1304	1.50	6.44	63.1	(3.4	90.4	5.86	204	-
1305	2.25	6.62	66.5	13.2	127.0	5.26	182 175	-
1306	3,00 3,75	6.69 6.71	67.5 67.0	13.2	10.0	4.84 4.76	164	
1348	· ·				1 1.24 7	<u> 10 r Kar</u>		1
								-
					[			_
								-
	<u> </u>			A	<u> </u>		L	1
Sample Time	e: <u>1310</u> Samp	ole ID:	TF3mi3	5316PP				

Page	of

Project:	40-05.	27	Sar	npled by:	DE	3/ PC		
Location a	nd Site Code (SIT	EID):	722			,		
	LOCID): <u> </u>			ell Diamete	er (SDIAM	): 🛛 🖉	ŧ	
	GDATE): <u>91</u>			eather:	Widy V H saiz a	widdle !	1040 1040	ermisel,
CASING VOLU	ME INFORMATION:					-	9 - 6	
Casing ID (inch)	1.0	1.5 2.0	2.2	3.0 4.0	4.3 5.(	) 6.0	7.0	
Unit Casing Volume	e (A) (gal/ft) 0.04	0.09 0.10	5 0.2	0.37 0.65	0.75 1.0	) 1.5	2.0 2.6	
PURGING INFO		~~ ·				<b>A A</b>	Fe	(INS: 3.6
	Depth (B) (TOTDEPTH)		. A		Ĭ		Constant of the second se	A C C C C C C C C C C C C C C C C C C C
	Level Depth (C) (STATD	·	2.99			B		
Length of Static V	Water Column (D) = $\frac{2}{(B)}$	<u>.82. 12.9</u>	<u>9</u> = <u>14.83</u> (D)	ft. <sub>H2</sub> C		ELEVAT (MPELE		
	lume (E) = $\frac{2.65}{(A)} \times 1$	. ,			STATIC ELEVATION	V	MEAN — SEA LEVEL	
Purge Date	e and Method:	. •		bailer			LEY EL	
	ppearance/Comm			petro	orly		· · · · · · · · · · · · · · · · · · ·	
	EASUREMENTS			9				
Allowable		± 0.1	± 5%	±1°C				
Time	Volume	pH	EC	Temp.	Turbidity	D.O.	ORP	]
	Removed (gal)	*	(mS/cm)	(F or C)	(NTU)	(mg/L)	(mV)	
133/	\$	7.30	77.2	13.0	62.6	10.34	123	
1337	10	7.20 7.22	78,4	12.6	<u>435</u>	4.84	~ 3	-
13.40	15	1.22	78.3	12.8	39.3	2.81		
1343	20	7.29	78.3	12.8 12.8 12.8 12.8	39.9 78.9	<u>5,18</u>	-12	
1349	30 30	7 29	78.5 78.7	12.3		<u>9.92</u> 9.77	- 20 - 26	
		/. <i>~</i> (	(0.(	17.0	42.(	1. (/	K. jo	
								***
								-
Sample Time	e: 13.50 Samp	ole ID: T	3(E) [:	BAY .				

# EQUIPMENT CALIBRATION LOG

Instrument Name:

FPM H2

Model No.:

Houba U-22

Date and Time	First Standard Concentration	First Standard Reading	Second Standard Concentration	Second Standard Reading	Comments
9-12	4.00	4.00			
9-13	4.00	4.00	,		
9-14	4.00	3.95	4.00	¥. T	
9-15	4.00	3.99			
9/18/06	4.00	39Y	4.00	4.00	Stor 7, Panagain.
9-18-02	4.0D	4.00			
9/20/06	4.00	3.98	4.00	4.00	
9/21/06	4,00	3,98			
9/22/06	4.00	3.19			
9-25-06	<u>4.00</u>	4.00		n National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National National N	THE ENVIRONMENT OF THE ATTENDANCE AND A THE ATTENDED AND A THE ATTENDED AND A THE ATTENDED AND A THE ATTENDED A
9-260	4.00	3.91	4.00	4.00	
		2300223807000000000000000000000000000000	asientellen andel 1911 - al ristellen die State (Society and a state		
			The case of the second		

**FPM** 

# EQUIPMENT CALIBRATION LOG

Instrument Name:

FPM HI

Model No.:

Houlda 14-20

Date and Time	First Standard Concentration	First Standard Reading	Second Standard Concentration	Second Standard Reading	Comments
9-12	4.00	4.00			
9-13	4.00	3.96	4,00	3.97	
9-14	4.00	3.96 <b>G</b> .45	4.00	4.00	
9-15	1.00	3.95	4.00	4.00	
9/10/00	9.00	7.9Y	4.00	3.98	Gror 7, recallerte
9-18-06	4.00	4.00			
7/20/06	4.00	7.99			
9/21/06	4.00	3.97			
9/22/06	4.00	3,99	4.00	4.00	
9-25-02	4.00	4.00			
9-26-6	4.00	4.00			

FPM

# AFCEE CHAIN OF CUSTODY RECORD (WO 0906018)

COC#: \_4\_ SDG#: \_139\_ Cooler ID: \_A\_

Ship to: Monika Santucci	tucci			Pro	Project Name: Griffiss AFB TF	ne: Gri	ffiss Al	FB TF 1	1 and 3 Sampling	guilqme		Send Re	sults to:	Send Results to: Niels van Hoesel	n Hoesel	
Life Science	ife Science Laboratories, Inc.			San	Sampler Name: David Forse	tme: D	avid Fc	~	14					FPM Group	dno	
5000 Britton Fast Syracus	5	0 Tel: (315)437-0200	-0200		-				land -	1				153 Broe Rome, N	153 Brooks Road Rome, NY 13441	
Carrier: LSL courier.				Sar	Sampler Signature:	gnature		1100						Phone: (3	(315) 336-7721	'21 Ext. 205
											o location de la construction de la construcción de la constru	A molecos Dominadod	otod			
							-				Auatys	es neque	) ICU			
Field Sample ID	Location ID (LOCID)	Date 2006	Time	XIATAM	SMCODE	ZBD/ZED	SACODE	Preservative	Filt./\LIF	No. of Containers	VOC <sup>note 1</sup> 40 mL vials (HCI)	SVOCs <sup>6 bote 2</sup> I L amber	Total Alkalinity <sup>note 3</sup> (soro headspace)	Nitrogen (Nitrate) <sup>note 4</sup> I 6 oz poly	Total Sulfide <sup>Note 5</sup> 16 oz poly (ZnAC and (HOaN)	Comments
TF3CE313PA	MW-CE	9/26	1350	WG	В	0/0	Z	HCI	Unf.	4	3		1	1	1	
TF3M2114PA	TF3MW21	9/26	1035	WG	В	0/0	N	HCI	Unf.	4	ю	t	1	I	I	
TF3M11614PA	WL-TF3MW-116	9/26	1050	WG	В	0/0	z	HCI	Unf.	4	3	¥	1	1	1	
TF3M11713PA	WL-TF3MW-117	9/26	1110	WG	В	0/0	N	HCI	Unf.	4	3			3	1	
TF3M119R12PA	WL-TF3MW-119R	9/26	0915	WG	В	0/0	Z	HCI	Unf.	6	Э	5		ĩ	4	
TF3M121R12PA	WL-TF3MW-121R	9/26	0938	WG	В	0/0	N	HCI	Unf.	6	Э	2		г	z	
TF3M12314PA	WL-TF3MW-123	9/26	1006	WG	В	0/0	z	HCI	Unf.	4	Э	I		1		
TF3M12614PA	WL-TF3MW-126	9/26	1124	WG	В	0/0	N	HCI	Unf.	4	3	1		3	г	
TF3M12713PA	WL-TF3MW-127	9/26	1405	WG	В	0/0	N	HCI	Unf.	4	Э	1		1	1	
TF3M12814PA	WL-TF3MW-128	9/26	1420	WG	В	0/0	N	HC1	Unf.	4	3	1	1	1	J	
TF3M13316PA	WL-TF3MW-133	9/26	1310	WG	В	0/0	Z	HCI	Unf.	4	3	I	1	ı	1	
TF3M13316PC	WL-TF3MW-133	9/26	1310	WG	В	0/0	FD	HCI	Unf.	4	ю	1	1	1	1	
092606PE	FIELDQC	9/26	0830	ЪМ	В	0/0	EB	HCI	Unf.	S	m			I	3	sampleID changed from 0925 to 0926
092606PF	FIELDQC	9/26	1320	МQ	NA	0/0	AB	HCI	Unf.	3	3	ŝ	ł	E	ı	sampleID changed from 0925 to 0926
092606PR	FIELDQC	9/26	0820	МQ	NA	0/0	TB	HCI	Unf.	3	3	ĩ	ł	 I	1	sample1D changed from 0925 to 0926
							-									

Collect water levels at all wells that are not sampled.

Sample Condition Upon Receipt at Laboratory:	tory:		Cooler Temperature:	
Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 3.1	to be conducted ir	1 compliance with AFCEE QAPP 3.1		
Note 1: VOCs: SW8260, AFCEE QAPP 3.1 List.	l List.			
Note 2: SVOCs: SW8270, AFCEE QAPP 3.1 List.	3.1 List.			
Note 3: Total Alkalinity, 310.2.				
Note 4: Nitrogen: 353.2, Nitrate: Automated.	d.			
Note 5: Total Sulfide: 376.2.				
		to action of		
#1 Released by: (Sig)	Date:	#2 Released by: (Sig) ////////////////////////////////////	ased by: (Sig)	Date:

# I Keleased by: (Sig)	Date:	#2 Keleased by: (Jig)	Date: 9/20/06	#3 Keicascu ny. (Jug)	Date:
Company Name:	Time:	Company Name: FPMI Group Ltd	Time: <b>16</b> :40	Company Name:	Time
#1 Received by: (Sig) Niels van Hocsel	Date: 9/26/06	#2 Received by: (Sig) - 2 Lack	Date // : -/ 0/	#3 Received by: (Sig)	Date
Company Name: FPM Group Ltd	Time: 1000	Company Name: $\mathcal{L} \subseteq \mathcal{L}$	Time: 9/2 6/06	Company Name:	Time:

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WG = Ground water WQ = Water Quality Control Matrix SO = Soil

SMCODE

- B = Bailer G = Grab (only for EB). NA = Not Applicable (only for AB/TB). PP = Peristaltic Pump BP = Bladder Pump SP = Submersible Pump SS = Split Spoon

<u>SACODE</u> N = Normal Sample AB = Ambient Blank TB = Trip Blank EB = Equipment Blank FD = Field Duplicate MS = Matrix Spike SD = Matrix Spike Duplicate

Daily Health and Safety Meeting Form Date: 9-26-06 Time: 0810 Location: FPM office (garage) Weather Conditions: rain / clondy 50 to 60 Location: FPM office (garage) *Meeting Type:* Daily Health and Safety Personnel Present: Pete Corigliano, Dan Buldyga Visitors Present: \_\_\_\_\_ Visitor Training: None PPE Required: Modified D *Possible risks, injuries, concerns:* trattic, slip/trip/ball Anticipated Releases to Environment (if so, describe and detail response action/control measures *implemented*): None Property Damage: Non Description (include sequence of events describing step by step how incident happened): Non Analysis for, and Implementation of Corrective/Preventative Procedure to Prevent Future *Occurrences (to be formulated by SSHO + FOM, approved by PM, and SSHO implemented):* Nerre

Report made by (Name): \_\_\_\_\_ Dan Baldy & \_\_\_\_\_

SSHP Organization Title: Site Safety and Health Officer

#### FPM-GROUP Data Verification and Usability Report GRIFFISS AIR FORCE BASE Site Griffiss AFB TANK FARM 1/3 Water Sampling Contract No. F41624-03-D-8601

#### FPM Project No. 40-05-27

#### STL Job # A06-7102

Laboratory:	STL Buffalo
Sample Matrix:	Water
Number of Samples:	15
Analytical Protocol:	AFCEE QAPP, Version 3.1, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	June 20, 2006

#### LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	QC Samples	Date
TF3CE313OA	6/20/06	062006OE, 062006OF, 062006OR	6/20/06
TF3M11614OA	6/20/06		
TF3M119R12OA	6/20/06		
TF3M121R12OA	6/20/06		
TF3M12713OA	6/20/06		
TF3M12814OA	6/20/06		
TF3M13316OA	6/20/06	TF3M13316OC	6/20/06
TF3M2114OA	6/20/06		
TF3M11713OA	6/20/06		
TF3M12614OA	6/20/06		
TF3M12314OA	6/20/06		

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.

OA - Primary environmental samples

OC - Field duplicate sample

OE – Equipment blank

OF – Ambient blank

OR - Trip blank

#### DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 3.1 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

#### ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the soil sample analysis was per methods as specified in the AFCEE Quality Assurance Project Plan, Version 3.1 and AFCEE approved laboratory variances. The analytical methods employed included SW-846: Volatile Organic Compounds (VOCs) by Method SW8260 and Semivolatile Organic Compounds (SVOCs) by Method SW8270, and Total Alkalinity by EPA Method 310.2.

#### **VERIFICATION GUIDANCE**

The analytical work was performed by Severn Trent Laboratory in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 3.1, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 3.1. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "R" (Rejected) according to QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the U.S. Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Organic (and Inorganic) Data Review (February 1994), and the AFCEE QAPP, Version 3.1.

#### QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)
- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times
- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)

- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols <u>with exceptions discussed in the text below</u>. The data have been verified according to the procedures outlined above and qualified accordingly.

#### GENERAL NOTES:

#### MISSING SAMPLES

None. All samples documented on the chain of custody were received by the laboratory.

#### SAMPLE LABELING

No problems were encountered with sample labeling and transcription to laboratory forms.

#### **BLANKS**

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data verifier qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than the RL, no further action was taken in such instances.

#### MS/MSD

For SVOCs, the lab performed matrix spike and matrix spike duplicate samples for parent sample TF3M119R12OA. However, these samples were not requested by the client in the chain-of-custody; therefore, no action was taken for the MS/MSD criterion.

#### VOLATILE ORGANIC COMPOUNDS (VOCs)

• The purpose of laboratory or field blank analysis is to determine the existence and magnitude of contamination resulting from lab or field activities. In Method Blank A6B2229802, naphthalene was detected with a concentration less than its reporting limit (RL) per the AFCEE QAPP (see Table below). According to the AFCEE QAPP, the presence of analytes in a method blank at concentrations equal to or greater than the RL indicates a need for corrective action.

Analyte	Method Blank Result (µg/L)	Reporting Limit (µg/L)
Naphthalene	0.23	1.0

<u>Corrective Action</u>: Since the detected concentration for this analyte was below its RL, no corrective action is required for this criterion and the "B" qualifiers applied by the lab to the associated samples are removed.

• Laboratory performance on individual samples is established by means of spiking all samples prior to analysis with surrogate compounds and assessing the percent recoveries. The following table summarizes QC exceedances for samples which exhibited surrogate compound recovery deficiencies. The Sample ID, surrogate compound, percent recoveries, and QC limits are listed.

Sample ID	Surrogate	%Rec	AFCEE QC Limits (%)	STL QC Limits (%)	Flag Applied	Rationale
TF3M119R12OA	1,2-Dichloroethane- d4	150	72-119	72-143	R	%Rec greater than upper control limit; reanalysis results used
TF3M119R12OARI	1,2-Dichloroethane- d4	142	72-119	72-143	None	%Rec within STL QC limits
TF3M12314OA	1,2-Dichloroethane- d4	147	72-119	72-143	R for positive results/ None for non- detects	%Rec greater than upper control limit; dilution sample results used for all results greater than RL (Non-detect results do not require flagging, and results between RL and MDL were flagged "F")
TF3M12314OADL (performed at 1:4)	1,2-Dichloroethane- d4	103	72-119	72-143	None	%Rec within AFCEE QC

Sample ID	Surrogate	%Rec	AFCEE QC Limits (%)	STL QC Limits (%)	Flag Applied	Rationale
						limits
TF3M2114OA	1,2-Dichloroethane- d4	150	72-119	72-143	R for positive results/ None for non- detects	%Rec greater than upper control limit; dilution sample results used for all results greater than RL (Non-detect results do not require flagging, and results between RL and MDL were flagged "F")
TF3M2114OADL (performed at 1:4)	1,2-Dichloroethane- d4	104	72-119	72-143	None	%Rec within AFCEE QC limits

According to the AFCEE-approved variance, STL may apply internal control limits as a second tier evaluation. If the surrogate recovery fails both first tier (AFCEE) and second tier (STL) evaluation, corrective action shall be implemented: the sample shall be reextracted and reanalyzed. If the corrective action is ineffective in resolving the exceedance, then all analytes associated with the surrogate in that sample are qualified. As per the QAPP, for samples with recoveries greater than the upper control limit for any surrogate, positive sample results are considered estimated (flagged "J"). For samples with recoveries less than the lower control limit and greater than 10%, positive results are considered estimated (flagged "J") and non-detect results are considered unusable (flagged "R"). For samples with recoveries less than 10%, all results are considered unusable (flagged "R"). However, for data usability purposes, applying professional judgment and surrogate criteria from the USEPA National Functional Guidelines (and consistent with the AFCEE QAPP Version 4.0), data are not rejected with respect to surrogate recovery unless any surrogate had recovery of less than 10%. Therefore, for data usability purposes, applying surrogate criteria from the USEPA National Functional guidelines (and the AFCEE QAPP 4.0), the samples will be qualified for surrogate recovery criterion as follows: For samples with surrogate recoveries greater than the upper control limit, positive sample results are considered estimated (flagged "J"). For samples with surrogate recoveries greater than 10% but less than the lower control limit, positive results are considered estimated (flagged "J") and non-detect results are considered estimated (flagged "UJ"). For samples with surrogate recoveries less than 10%, the results are rejected for the analytes. However, using professional judgment, no corrective action and/or flagging is required for minimal exceedances (i.e., within 1% of the control limits).

<u>Corrective Action</u>: The samples above were re-extracted and reanalyzed due to one surrogate recovery exceedance in each of the original samples, that for 1,2-dichloroethane-

d4. The results of the resample reanalysis are also shown in the above table. The determination of which sample results to use for each sample is summarized below:

- ➤ TF3M119R12OA: The original sample had one surrogate recovery exceedance, whereas the reanalysis sample was within the STL control limits. The reanalysis results were deemed usable with no qualification, and the original results were rejected.
- ➤ TF3M12314OA: The original sample had one surrogate recovery exceedance above the AFCEE/STL control limits, and the dilution sample (performed at 1:4) was within AFCEE control limits. Since the surrogate failure in the original sample requires "J" qualifiers only for results greater than non-detect, the non-detect results are considered usable without qualification. The positive results in the original sample are rejected, and the dilution results (usable without qualification) for the compounds isopropylbenzene, and n-propylbenzene 1,2,4-trimethylbenzene, have been transferred to the original sample results and modified accordingly. Note that for the results in the original sample which were below the reporting limit but above the detection limit, using professional judgment, the "F" flag is deemed more appropriate and "J" flag were not applied. This is consistent with the AFCEE QAPP, which states that *all* results between the method detection limit and the reporting limit shall be flagged "F."
- > TF3M2114OA: The original sample had one surrogate recovery exceedance above the AFCEE/STL control limits, and the dilution sample (performed at 1:4) was within AFCEE control limits. Since the surrogate failure in the original sample requires "J" qualifiers only for results greater than non-detect, the non-detect results are considered usable without qualification. The positive results in the original sample are rejected, and the dilution results (usable without qualification) for the compounds chloroethane, chloromethane, isopropylbenzene, n-butylbenzene, n-propylbenzene, naphthalene, p-isopropyltoluene, sec-butylbenzene and t-butylbenzene results have been transferred to the original sample results and modified accordingly. Note that results for chloroethane and chloromethane in the dilution sample were non-detect; this is possible due to the fact that the surrogate failure in the original sample caused a positive bias. Also note that for the results in the original sample which were below the reporting limit but above the detection limit, using professional judgment, the "F" flag is deemed more appropriate and "J" flag were not applied. This is consistent with the AFCEE QAPP, which states that all results between the method detection limit and the reporting limit shall be flagged "F."
- Field duplicate samples, which are collected at the same location and at the same time using identical collection, handling, and analytical procedures, are used to assess precision of the sample collection process. The AFCEE QAPP requires qualification of data for field duplicates criterion if the duplicate samples contain detected compounds with concentrations above the reporting limits (RLs) and the relative percent differences (RPDs) between the duplicate sample results exceed AFCEE QAPP's RPD control limits. If these conditions are met for any analytes in the field duplicate samples, per the AFCEE QAPP, the specific analytes in all samples collected on the same sampling date are to be qualified as estimated ("J") for positive results and rejected ("R") for nondetects. Using professional judgment, it is

deemed inappropriate to consider any set of field duplicate samples to be truly representative of a site or sampling event. Therefore, if qualification of data is needed, then only the parent-duplicate sample set will be qualified as estimated ("J") for positive results and rejected ("R") for non-detects, and no action will be taken for this criterion in all the other samples collected on the same sampling date.

The following table summarizes QC exceedances of the relative percent differences (RPD's) of field duplicate samples TF3M13316OA and TF3M13316OC.

	Sample ID, Normal	Sample ID, Field Duplicate	Analyte	Normal Result (µg/L)	Field Dup Result (µg/L)	MDL (µg/L)	RPD	Flag Applied	Rationale
Tł	F3M13316OA	TF3M13316OC	1,2,4- Trimethylbenzene	7.0	9.2	0.18	27.2	J	RPD > 20%

**Corrective Action:** 1,2,4-Trimethylbenzene exhibited an RPD exceedance (above AFCEE's 20% limit). As discussed above, "J" qualifiers were applied to the results of samples TF3M13316OA and TF3M13316OC, and these results are considered estimated.

#### SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

• There were no exceedances for SVOC analysis.

# TOTAL ALKALINITY

• There were no exceedances for total alkalinity analysis.

#### DATA USABILITY RESULTS

#### VOCs

Based on the evaluation of all information in the analytical data groups, the results of the samples for VOCs are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

#### **SVOCs**

Based on the evaluation of all information in the analytical data groups, the results of the samples for SVOCs are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

#### TOTAL ALKALINITY

Based on the evaluation of all information in the analytical data groups, the results of the samples for total alkalinity are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

#### AFCEE SUMMARY

All data in Job # A06-7102 are valid and usable with qualifications as noted in the data review.

Signed: Concordia van Hoesel

Date: 7/20/06

#### **ATTACHMENTS**

- Chain-of-Custody
- Laboratory's Case Narrative
- Definition of AFCEE Data Qualifiers
- Definition of USEPA Data Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

#### AFCEE ORGANIC ANALYSES DATA PACKAGE

 Analytical Method: 8260-A98
 AAB #: A6B22298

 Lab Name: STL Buffalo
 Contract #: \_\_\_\_\_

 Base/Command: Griffiss Airforce Base
 Prime Contractor: Fanning, Phillips & Molna

Field Sample ID

Lab Sample ID

0620060E 0620060F 0620060R TF3CE3130A TF3M116140A TF3M119R120A TF3M12R120A TF3M12R120A TF3M123140A TF3M128140A TF3M128140A TF3M133160C TF3M133160C TF3M21140A A6710213 A6710212 A6710201 A6710202 A6710202 A6710203 A6710204 A6710205 A6710206 A6710208 A6710208 A6710209 A6710210 A6710210 A6710211

Comments:

<u>See Case Narrative</u>

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Date:

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Name: John Schove

Title: Operations Manager

AFCEE FORM 0-1

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# AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8260-A98	Preparatory Method:	<u>sw5030</u>	ł	AB #: <u>A6</u>	322298	
Lab Name:	STL Buffalo			Contra	act #:		
Field Sample ID:	0620060E	Lab Sample ID:	A6710213	Ma	atrîx: <u>WA</u>	rer	
% Solids:		Initial Calibration ID:	A61000168	<u>0</u>			
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	1-Jul-20	06 Date Ana	lyzed: <u>1</u>	- Jul - 2006	
Concentra	ation Units (ug	J/L or mg/kg dry weight):	UG/L				
Analyte		MDL	RL	Concentration	Dilution	Confirm	Qualifier
2-TETRACHLORDETHANE		0.21	0.50	0.21	1.00	N/A	υ
TRICHLOROETHANE		0.28	1.0	0.28	1.00	N/A	U
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1,1,1-TRICHLOROETHANE	0,28	1.0	0.28	1.00	N/A	υ
1,1,2,2-TETRACHLORDETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	U
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	υ
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	u
1,2,4-TRIMETHYLBENZENE	0.18	1_0	0.18	1.00	N/A	U
1,2-DICHLORDETHANE	0.23	0.50	0.23	1.00	N/A	U
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	υ
1,2-DICHLOROPROPANE	0.25	1_0	0.25	1.00	N/A	U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	υ
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	U
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	υ
ACETONE	0.94	10	4.8	1.00	N/A	F
BENZENE	0.25	0.50	0.25	1.00	N/A	U
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMODICHLOROMETHANE	0.17	0.50	0.17	1.00	N/A	U
BROMOFORM	0.13	1.0	0.13	1.00	N/A	U

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u> P	reparatory Method:	<u>SW5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	STL Buffalo			Contract #:	
Field Sample ID:	0620060E	Lab Sample ID:	<u>A6710213</u>	Matrix:	WATER
% Solids:	Initi	al Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	U
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	U
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	0.18	1.00	N/A	U
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	υ
CHLOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
HEXACHLOROBUTADIENE	D.11	0.60	0.11	1.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	0.19	1.00	N/A	U
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	υ
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U
n-BUTYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
n-PROPYLBENZENE	0.19	1.0	0.19	1.00	N/A	U
M,P-XYLENE(SUM OF ISOMERS)	0,44	2.0	0.44	1.00	N/A	U
NAPHTHALENE	0.14	1.0	0.14	1.00	N/A	U
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	0.17	1.00	N/A	U
SEC-BUTYLBENZENE	0.19	1.0	0.19	1.00	N/A	U
STYRENE	0.21	1.0	0.21	1.00	N/A	υ
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.23	1.00	N/A	U
t-BUTYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	υ
TOLUENE	0.22	· 1.0	0.22	1.00	N/A	U

AFCEE FORM 0-2

#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>SW5030</u>	AAB #:	<u>A6822298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	0620060E	Lab Sample ID:	<u>A6710213</u>	Matrix:	WATER
% Solids:	Init	tial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	U
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	U

Surrogate	Recovery	Control Limits	Qualifier
TOLUENE - D8	95	81 - 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	90	76 - 119	
1,2-DICHLOROETHANE-d4	83	72 - 119	
DIBROMOFLUOROMETHANE	90	85 - 115	

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	523315	259272 - 1037088	
CHLOROBENZENE-d5	341854	178213 - 712850	
1,4-DICHLOROBENZENE-d4	162089	88272 - 353088	

#### Comments:

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8260-A98	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	0620060F	Lab Sample ID:	<u>A6710212</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	A610001680		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0,50	0.21	1.00	N/A	U
1,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	U
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1,00	N/A	υ
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	υ
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	υ
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0,14	1.0	0.14	1.00	N/A	U
1,2,4-TRIMETHYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	U
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	υ
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	υ
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	U
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	U
1,4-DICHLOROBENZENE	0.19	0.50	0_19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	υ
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	υ
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	U
ACETONE	0.94	10	5.1	1.00	N/A	F
BENZENE	0.25	0.50	0.25	1.00	N/A	U
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMOD I CHLOROMETHANE	0.17	0.50	0.17	1.00	N/A	U
BROMOFORM	0.13	1.0	0.13	1.00	N/A	U
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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6822298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	www.se_
Field Sample ID:	0620060F	Lab Sample ID:	<u>A6710212</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL.	RL	Concentration	Dilution	Confirm	Qualifie
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	U
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	- U
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	0.18	1.00	N/A	U
CHLOROFORM	0.26	0.50	0.26	1.00	· N/A	υ
CHLOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
HEXACHLOROBUTADIENE	0.11	0.60	0.11	1.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	0.19	1.00	N/A	U
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U
n-BUTYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
n-PROPYLBENZENE	0.19	1.D	0.19	1.00	N/A	U
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	0.44	1.00	N/A	U
NAPHTHALENE	0.14	1.0	0.14	1.00	N/A	U
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	0.17	1.00	N/A	
SEC-BUTYLBENZENE	0.19	1.0	0.19	1.00	N/A	U
STYRENE	0.21	1.0	0.21	1.00	N/A	U
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.23	1.00	N/A	U
t-BUTYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE	0.22	1.0	. 0.22	a <b>1.0</b> 0	N/A	U

#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	0620060F	Lab Sample ID:	A6710212	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	U
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	D.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	U

Surrogate	Recovery	Control Limits	Qualifier
TOLUENE-D8	97	81 - 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	91	76 - 119	
1,2-DICHLOROETHANE-d4	85	72 - 119	
DIBROMOFLUOROMETHANE	93	85 - 115	

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Internal Std	Area Counts	Area Count Limits	Qualifier	
FLUOROBENZENE	496601	259272 - 1037088		
CHLOROBENZENE-d5	327364	178213 - 712850		
1,4-DICHLOROBENZENE-d4	154237	88272 - 353088		

#### Comments:

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8260-A98 Pre	paratory Method:	<u>SW5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	0620060R	Lab Sample ID:	<u>A6710214</u>	Matrix:	WATER
% Solids:	Initial	Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,1-TRICHLORDETHANE	0.28	1.0	0.28	1.00	N/A	U
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	U
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	U
1,2,4-TRIMETHYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	U
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	U
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	U
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	 U
ACETONE	0.94	10	0.94	1.00	N/A	บ
BENZENE	0.25	0.50	0.25	1.00	N/A	U
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMODICHLOROMETHANE	0.17	0.50	0.17	1.00	N/A	U
BROMOFORM	0.13	1.0	0.13	1.00	N/A	U

AFCEF FORM 0-2

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	0620060R	Lab Sample ID:	<u>A6710214</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

.

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	U
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	υ
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	0.18	1.00	N/A	U
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	u
cis-1,3-DICHLOROPROPENE	0.24	0.50	D.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DI CHLOROD I FLUOROME THANE	0.15	1.0	0.15	1.00	N/A	U
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
HEXACHLOROBUTAD I ENE	0.11	0.60	0.11	1.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	0.19	1.00	N/A	u
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	u
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	u
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U
n-BUTYLBENZENE	0.18	1.0	0.18	1.00	N/A	u
n-PROPYLBENZENE	0.19	1.0	D.19	1.00	N/A	υ
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	0.44	1.00	N/A	U
NAPHTHALENE	0.14	1.0	0.14	1.00	N/A	U
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	D.21	1.00	N/A	u
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	0.17	1.00	N/A	υ
SEC-BUTYLBENZENE	0.19	1.0	0.19	1.00	N/A	U
STYRENE	0.21	1.0	0.21	1.00	N/A	U
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.23	1.00	N/A	u
t-BUTYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE	0.22	1.0	0.22	1.00	····N/A	u

AFCEF FORM 0-2



Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	0620060R	Lab Sample ID:	A6710214	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	υ
trans-1,3-DICHLOROPROPENE	0.16	1.0	D.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	

Surrogate	Recovery	Control Limíts	Qualifier
TOLUENE-D8	103	81 - 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	98	76 - 119	
1,2-DICHLOROETHANE-d4	89	72 - 119	
DIBROMOFLUOROMETHANE	96	85 - 115	

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	498718	259272 - 1037088	
CHLOROBENZENE-d5	328203	178213 - 712850	
1,4-DICHLOROBENZENE-d4	156306	88272 - 353088	

## Comments:

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8260-898	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3CE3130A	Lab Sample ID:	<u>A6710201</u>	Matrix:	WATER
% Solids:		nitial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Ánalyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLORGETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,1-TRICHLOROETHANE	0.28	1_0	0,28	1.00	N/A	U
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	υ
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROPROPENE	0.23	1.0	0,23	1.00	N/A	υ
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.36	1.00	N/A	F
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.29	1.00	N/A	F
1,2,4-TRIMETHYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	U
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	0_31	2.0	0.31	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0,20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	U
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	บ
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	υ
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1.0	0,30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	D.21	1.0	0,21	1.00	N/A	U
4-CHLORDTOLUENE	0.18	1.0	0.18	1.00	N/A	U
ACETONE	0.94	10	0.94	1.00	N/A	U
BENZENE	0.25	0.50	0.25	1.00	N/A	U
BROMOBENZENE	0.23	1.0	0.23	1,00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMODICHLOROMETHANE	0.17	0.50	0.17	1,00	N/A	U
BROMOFORM	0.13	1.0	0.13	1.00	N/A	U

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## AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>SW5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL Buffalo</u>			Contract #:	**********
Field Sample ID:	TF3CE3130A	Lab Sample ID:	<u>A6710201</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>08610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL.	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	U
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	U
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	0.29	1.00	N/A	F
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	
HEXACHLOROBUTADIENE	0.11	0.60	0.30	1.00	N/A	F
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	5.2	1.00	N/A	
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U
n-BUTYLBENZENE	0.18	1.0	1.1	1.00	N/A	
n-PROPYLBENZENE	0.19	1.0	5.8	1.00	N/A	
M,P-XYLENE(SUM DF ISOMERS)	0.44	2.0	0.44	1.00	N/A	U
NAPHTHALENE	0.14	1.0	1.6	1.00	N/A	-15-
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	0.17	1.00	N/A	υ
SEC-BUTYLBENZENE	0.19	1.0	3.7	1.00	N/A	
STYRENE	0.21	1.0	0.21	1.00	N/A	
TRICHLOROETHYLENE (TCE)	0.23	1.0	1.0	1.00	N/A	-
t-BUTYLBENZENE	0.23	1.0	0.59	1.00	N/A	F
TETRACHLOROETHYLENE (PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE	0.22	1.0	0.22	1.00	N/A	U

AFCEE FORM 0-2

Analytical Method:	8260-A98	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL_Buffalo</u>			Contract #:	
Field Sample ID:	TF3CE3130A	Lab Sample ID:	<u>A6710201</u>	Matrix:	WATER
% Solids:	·····	Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL.	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	U
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	U

Surrogate	Recovery	Control Limits	Qualifier
TOLUENE-D8	85	81 - 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	90	76 - 119	
1,2-DICHLOROETHANE-d4	90	72 - 119	
DIBROMOFLUOROMETHANE	89	85 - 115	

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	560836	259272 - 1037088	
CHLOROBENZENE-d5	379408	178213 - 712850	
1,4-DICHLOROBENZENE-d4	187132	88272 - 353088	

## Comments:

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## AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M116140A	Lab Sample ID:	<u>A6710202</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	υ
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	U
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	• N/A	U
1,2,4-TRICHLOROBENZENE	0_14	1.0	0.14	1.00	N/A	U
1,2,4-TRIMETHYLBENZENE	0.18	1.0	0.18	1.00	N/A	 U
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	U
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	 U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	υ
1,3-DICHLOROPROPANE	D.22	0.50	0.22	1.00	N/A	υ
1,4-DICHLOROBENZENE	0_19	0.50	0.19	1.00	N/A	
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	U
ACETONE	0.94	10	0.94	1.00	N/A	U
BENZENE	0.25	0.50	0.25	1.00	N/A	U
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMODICHLOROMETHANE	0.17	0.50	0.17	1.00	N/A	U
BROMOFORM	0.13	1.0	0.13	1.00	N/A	υ

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## AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	<u>TF3M116140A</u>	Lab Sample ID:	<u>A6710202</u>	Matrix:	WATER
% Solids:	Ī	nitial Calibration ID:	<u>A610001680</u>		
Date Received:	21-Jun-2006	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	u
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	U
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	0.54	1.00	N/A	F
CHLOROFORM	0.26	0,50	0.26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.42	1.00	N/A	F
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	υ
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	υ
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
HEXACHLOROBUTADIENE	0.11	0.60	0.11	1.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	5.8	1.00	N/A	
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U
n-BUTYLBENZENE	0.18	1.0	2.0	1.00	N/A	
n-PROPYLBENZENE	0.19	1.0	4.4	1.00	N/A	
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	0.44	1.00	N/A	U
NAPHTHALENE	0.14	1.0	0.14	1.00	N/A	U
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	υ
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	0.17	1.00	N/A	U
SEC-BUTYLBENZENE	0.19	1.0	4.5	1.00	N/A	
STYRENE	0.21	1.0	0.21	1.00	N/A	υ
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.23	1.00	N/A	U
t-BUTYLBENZENE	0.23	1.0	1.5	1.00	N/A	
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE	0.22	1.0	0.22	1.00	N/A	υ

AFCEE FORM 0-2

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M116140A	Lab Sample ID:	<u>A6710202</u>	Matrîx:	WATER
% Solids:	Ini	tial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	Ŀ
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	

Surrogate	Recovery	Control Limits	Qualifier
TOLUENE-D8	85	81 - 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	93	76 - 119	
1,2-DICHLOROETHANE-d4	111	72 - 119	
DIBROMOFLUOROMETHANE	92	85 - 115	

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	552729	259272 - 1037088	
CHLOROBENZENE-d5	377332	178213 - 712850	
1,4~DICHLOROBENZENE-d4	186719	88272 - 353088	

#### Comments:

Analytical Method:	<u>8260-a98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M117130A	Lab Sample ID:	<u>A6710203</u>	Matrix:	WATER
% Solids:	In	itial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	υ
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	υ
1,1-DICHLORGETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	u
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	U
1,2,4-TRIMETHYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	U
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0,25	1.00	N/A	U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	U
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	U
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	υ
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	U
ACETONE	0.94	10	0.94	1.00	N/A	U
BENZENE	0.25	0.50	0.25	1.00	N/A	U
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMODICHLOROMETHANE	0.17	0.50	0.17	1.00	N/A	U
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## AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	STL_Buffalo			Contract #:	
Field Sample ID:	<u>TF3M117130A</u>	Lab Sample ID:	A6710203	Matrix:	WATER
% Solids:	] r	nitial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	U
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	u u
CHLOROBENZENE	0.19	0,50	0.19	1.00	N/A	U
CHLORDETHANE	0.18	1.0	0.41	1.00	N/A	F
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	U
CHLOROMETHANE.	0.15	1.0	0.40	1.00	N/A	F
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.34	1.00	N/A	F
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	υ
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
HEXACHLOROBUTADIENE	0.11	0.60	0.11	1.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	0.73	1.00	N/A	F
METHYLENE CHLORIDE	D.31	1.0	0.31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	υ
n-BUTYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
n-PROPYLBENZENE	0.19	1.0	0.19	1.00	N/A	U
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	0.44	1.00	N/A	U
NAPHTHALENE	D.14	1.0	0.14	1.00	N/A	U
O-XYLENE (1,2-DIMETHYLBENZENE)	D.21	1.0	0.21	1.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	0.17	1.00	N/A	U
SEC-BUTYLBENZENE	0.19	1.0	0.86	1.00	N/A	F
STYRENE	D.21	1.D	0.21	1.00	N/A	U
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.23	1.00	N/A	U
t-BUTYLBENZENE	0.23	1.0	1.8	1.00	N/A	
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE	0.22	1.0 .	0.22	1.00	N/A	U

Analytical Method:	8260-A98	Preparatory Method:	<u>SW5030</u>	AAB #:	<u>A6822298</u>
Lab Name:	<u>STL_Buffalo</u>			Contract #:	
Field Sample ID:	<u>TF3M117130A</u>	Lab Sample ID:	<u>A6710203</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	υ
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	U

Surrogate	Recovery	Control Limits Qualifier
TOLUENE-D8	86	81 - 120
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	94	76 - 119
1,2-DICHLOROETHANE-d4	99	72 - 119
DIBROMOFLUOROMETHANE	91	85 - 115

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	552038	259272 - 1037088	
CHLOROBENZENE-d5	374614	178213 - 712850	
1,4-DICHLOROBENZENE-d4	184881	88272 - 353088	

## Comments:

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# AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

	ORGANIC ANALYSES DATA S RESULTS	SHEET 2	Not
Analytical Method: <u>8260-A98</u>	Preparatory Method: <u>SW50</u>	)30 AAB #: <u>A6B22298</u>	h. Co
Lab Name: <u>STL Buffalo</u>		Contract #:	- YEM
Field Sample ID: <u>TF3M119R12OA</u>	Lab Sample ID: <u>A671</u>	10204 Matrix: WATER	Wark
% Solids:	Initial Calibration ID: A610	0001680	REIF
Date Received: <u>21-Jun-2006</u>	Date Prepared: <u>1-J</u>	ul-2006 Date Analyzed: <u>1-Jul-2006</u>	- That
Concentration Units (up	1/L or mg/kg dry weight): UG/L		Andrew

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	N N
1,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	U
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0 21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	U
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1,00	N/A	U
1,2,4-TRIMETHYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	U U
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0,81	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1 00	N/A	U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	U
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	U
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1/0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	/1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	U
ACETONE	0.94	10	0.94	1.00	N/A	U
BENZENE	0.25	0.50	0.25	1.00	N/A	u
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMODICHLOROMETHANE	0.17	0.50	0.17	1.00	N/A	u
BROMOFORM	0.13	1.0	0.13	1.00	N/A	λυ

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# AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

		RESULTS			1
Analytical Method:	8260-A98	Preparatory Method:	<u>sw5030</u>	AAB #: <u>A6B22298</u>	TO NOT
Lab Name:	<u>STL Buffalo</u>			Contract #:	- THE WE
Field Sample ID:	TF3M119R120A	Lab Sample ID:	<u>A6710204</u>	Matrix: <u>WATER</u>	MIALP
% Solids:		Initial Calibration ID:	<u>A610001680</u>		FERRICE
Date Received:	<u>21 - Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed: <u>1-Jul-200</u>	2 PESME
Concentra	ation Units (ug	g/L or mg/kg dry weight):	UG/L		7

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0_27	1.00	N/A	U
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	U
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	<b>Q.70</b>	1.00	ŊZA	F
CHLOROFORM	0.26	0.50	0 26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
HEXACHLOROBUTADIENE	0.11	0.60	0.11	1,00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	0.15	1.00	N/A	U
METHYLENE CHLORIDE	0.31	1.0	0/31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	u
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	Ų
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1\00	N/A	U
n-BUTYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
n-PROPYLBENZENE	0.19	1.0	0.19	1.00	N/A	U
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	0.44	1.00	N/A	U
NAPHTHALENE	0.14	1.0	0.14	1.00	N/A	Ų
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	0.17	1.00	N/A	υ
SEC-BUTYLBENZENE	0.19	1/.0	0.19	1.00	N/A	U
STYRENE	0.21	/1.0	0.21	1.00	N/A	U
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.26	1.00	NYA	F
t-BUTYLBENZENE	0.23	1.0	0.45	1.00	N/A	F
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE	0.22	/ 1.0	0.22	1_00	• • N/A	U

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		AFCEE ORGANIC ANALYSES RESULT	DATA SHEET	2			NOT.CE
Analytical Method: Lab Name:	<u>8260-A98</u> STL Buffalo	Preparatory Method	: <u>SW5030</u>		AAB #: <u>A6</u> act #:	<u>B22298</u>	USE WE
Field Sample ID:	TF3M119R120A	Lab Sample ID	: <u>A6710204</u>	M	atrix: <u>WA</u>	TER	200 S
% Solids:		Initial Calibration ID	: <u>A61000168</u>	<u>80</u> \			Sall
Date Received:	<u>21-Jun-2006</u>	Date Prepared	: <u>1-Jul-20</u>	1 <u>06</u> Date Ana	lyzed: <u>1</u>	<u>-Jul-2006</u>	KOr -
Concentra	ation Units (ug	/L or mg/kg dry weight)	: <u>UG/L</u>				>
Analyte		MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE		0.38	1.0	0.38	1.00	N/A	U
trans-1,3-DICHLOROPROPENE		0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE		0.16	1.0	0.16	1.80	N/A	

1.0

1.0

				A.	
Surrogate	Recovery	Control	Limits	Qualitier	
TOLUENE-D8	82 /	81 - 1	120		and the second sec
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	89	76 -	119		
1,2-DICHLORDETHANE-d4	150	72 - '	119	*	
DIBROMOFLUOROMETHANE	89	85 - 1	115		

0.16

0.26

U

U

N/A

N/A

1,80

1.00

. . .

0.16

0.26

Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	577999	259272 - 1037088	
CHLOROBENZENE-d5	391401	178213 - 712850	
1,4-DICHLOROBENZENE-d4	192887	88272 - 353088	

#### Comments:

VINYL CHLORIDE

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## AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M121R120A	Lab Sample ID:	<u>A6710205</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	U
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	U
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	υ
1,2,3-TRICHLOROPROPANE	0.19	1.0	0,19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	U
1,2,4-TRIMETHYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	U
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	υ
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	U
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	U
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1 - CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-D1CHLORDPROPANE	0.27	1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	U
ACETONE	0.94	10	0.94	1.00	N/A	U
BENZENE	0.25	0.50	0.25	1.00	N/A	U
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMODICHLOROMETHANE	0.17	0.50	0.17	1.00	N/A	บ
BROMOFORM	0.13	1.0	0.13	1.00	N/A	U.

AFCEE FORM 0-2

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## AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6822298</u>
Lab Name:	STL Buffalo			Contract #:	
Field Sample ID:	TF3M121R120A	Lab Sample ID:	<u>A6710205</u>	Matrix:	WATER
% Solids:	1	nitial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL.	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	υ
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	U
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	D.18	1.00	N/A	U
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
D I CHLOROD I FLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
HEXACHLOROBUTADIENE	0.11	0.60	0.11	1.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	0.19	1.00	N/A	U
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U
n-BUTYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
n-PROPYLBENZENE	0.19	1.0	0.19	1.00	N/A	U
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	0.44	1.00	N/A	U
NAPHTHALENE	0.14	1.0	0.14	1.00	N/A	U
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	0.17	1.00	N/A	U
SEC-BUTYLBENZENE	0.19	1.0	0.19	1.00	N/A	U
STYRENE	0.21	1.0	0.21	1.00	N/A	U
TRICHLOROETHYLENE (TCE)	0.23	1.0	1.6	1.00	N/A	
t-BUTYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
TETRACHLOROETHYLENE (PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE	0.22	1.0	0.22	1.00	N/A	Ų

AFCEE FORM 0-2

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	STL Buffalo			Contract #:	
Field Sample ID:	TF3M121R120A	Lab Sample ID:	<u>A6710205</u>	Matrix:	WATER
% Solids:	•	Initial Calibration ID:	<u>A610001680</u>		
Date Received:	21-Jun-2006	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	U
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	U

Surrogate	Recovery	Control Limits	Qualifier
TOLUENE - D8	89	81 - 120	
1-BRDMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	94	76 - 119	
1,2-DICHLOROETHANE-d4	88	72 - 119	
DIBROMOFLUOROMETHANE	94	85 - 115	

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	528912	259272 - 1037088	
CHLOROBENZENE-d5	348608	178213 - 712850	
1,4-DICHLOROBENZENE-d4	167642	88272 - 353088	

#### Comments:

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	826D-A98	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6822298</u>
Lab Name:	STL Buffalo			Contract #:	••••••••••••••••••••••••••••••••••••
Field Sample ID:	TF3M123140A	Lab Sample ID:	<u>A6710206</u>	Matrix:	WATER
% Solids:	In	itial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
,1,1,2-TETRACHLORDETHANE	0.21	0.50	0.21	1.00	N/A	U
, 1, 1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	U
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	U
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.37	1.00	N/A	F
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	U
1,2,4-TRIMETHYLBENZENE	0.18	1.0	5.5 m	1.00	N/A	<u>.</u>
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	υ
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	U
1,2-DIBROMDETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5+TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.47	1.00	N/A	F
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	U
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	u
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	U
ACETONE	0.94	10	0.94	1.00	N/A	U
BENZENE	0.25	0.50	0.25	1.00	N/A	U
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
SROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMOD I CHLOROMETHANE	0.17	0,50	0.17	1.00	N/A	U
BROMOFORM	0.13	1.0	0.13	1.00	N/A	U

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8260-A98	Preparatory Method:	<u>SW5030</u>	AAB #:	<u>A6822298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M123140A	Lab Sample ID:	<u>A6710206</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	U
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	IJ
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	0.69	1.00	N/A	F
CHLOROFORM	D.26	0.50	0.26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.68	1.00	N/A	F
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
HEXACHLOROBUTADIENE	0.11	0.60	0.11	1.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	29 77	1.00	N/A	Tratana,
NETHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U
n-BUTYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
n-PROPYLBENZENE	0.19	1.0	2.8 #	1.00	N/A	3-5-
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	0.44	1.00	N/A	U
NAPHTHALENE	0.14	1.0	0.14	1.00	N/A	U
O-XYLENE (1,2-DIMETHYLBENZENE)	D.21	1.0	0.21	1.00	N/A	Ų
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	0.46	1.00	N/A	F
SEC-BUTYLBENZENE	0.19	1.0	0.79	1.00	N/A	F
STYRENE	0.21	1.0	0.21	1.00	N/A	U U
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.23	1.00	N/A	U
t-BUTYLBENZENE	0.23	1.0	0.77	1.00	N/A	F
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE	.0.22	1.0	0.22	1.00	N/A	U

Krenets transferred from dilution Somple TF3H123140ADL

Analytical Method:	8260-A98	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL_Buffalo</u>			Contract #:	
Field Sample ID:	TF3M123140A	Lab Sample ID:	<u>A6710206</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	U
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	U

Surrogate	Recovery	Control Limits	Qualifier
TOLUENE-D8	84	81 - 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	91	76 - 119	
1,2-DICHLOROETHANE-d4	147	72 - 119	*
DIBROMOFLUOROMETHANE	91	85 - 115	

Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	569778	259272 - 1037088	
CHLOROBENZENE-d5	384063	178213 - 712850	
1,4-DICHLOROBENZENE-d4	189391	88272 - 353088	

#### Comments:

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8260-A98	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6822298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	····
Field Sample ID:	TF3M127130A	Lab Sample ID:	<u>A6710208</u>	Matrix:	WATER
% Solids:	In	itial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U.
1,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	U
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	υ
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0,13	1.00	N/A	u
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	U
1,2,4-TRIMETHYLBENZENE	0.18	1.0	15	1.00	N/A	
1,2-DICHLOROETHANE	0.23	0,50	0.23	1.00	N/A	
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	υ
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	u
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
4-CHLORDTOLUENE	0.18	1.0	0.18	1.00	N/A	U
ACETONE	0.94	10	0.94	1.00	N/A	U
BENZENE	0.25	0,50	1.4	1.00	N/A	
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	υ
BROMODICHLORDMETHANE	0.17	0.50	0.17	1.00	N/A	U
BROMOFORM	0.13	1_0	0.13	1.00	N/A	
		L	L			1

Analytical Method:	8260-A98	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6822298</u>
Lab Name:	STL Buffalo			Contract #:	
Field Sample ID:	TF3M127130A	Lab Sample ID:	<u>A6710208</u>	Matrix:	WATER
% Solids:	Ini	tial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
ROMOMETHANE	0.27	3.0	0.27	1.00	N/A	U
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	<u> </u>
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	0.18	1.00	N/A	U
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.22	1.00	N/A	F
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	<u> </u>
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
ETHYLBENZENE	0.23	1.0	17	1.00	N/A	
NEXACHLOROBUTAD I ENE	0.11	0.60	0.11	1.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	9.9	1.00	N/A	
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U
n-BUTYLBENZENE	0.18	1.0	0,18	1.00	N/A	U
n-PROPYLBENZENE	0.19	1.0	9.8	1.00	N/A	
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	8.3	1.00	N/A	
NAPHTHALENE	0.14	1.0	7.9	1.00	N/A	-8
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	U
P-CYMENE (P-1SOPROPYLTOLUENE)	0.17	1.0	0.66	1.00	N/A	F
SEC-BUTYLBENZENE	0.19	1.0	1.4	1.00	N/A	
STYRENE	0.21	1.0	0.21	1.00	N/A	U
TRICHLOROETHYLENE (TCE)	D.23	1.0	0.23	1.00	N/A	υ
t-BUTYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE	0.22	1.0	0.22	1.00	N/A	U

AFFEF FORM N-2

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>SW5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M127130A	Lab Sample ID:	<u>A6710208</u>	Matrix:	WATER
% Solids:	Initi	al Calibration ID:	A610001680		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	. ป
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	U

Surrogate	Recovery	Control Limits	Qualifier
TOLUENE-D8	94	81 - 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	94	76 - 119	
1,2-DICHLOROETHANE-d4	89	72 - 119	
DIBROMOFLUOROMETHANE	91	85 - 115	

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	563370	259272 - 1037088	
CHLOROBENZENE-d5	377996	178213 - 712850	
1,4-DICHLOROBENZENE-d4	187053	88272 - 353088	

## Comments:

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## AFCEE DRGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M128140A	Lab Sample ID:	<u>A6710209</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	U
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	U
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	U
1,2,4-TRIMETHYLBENZENE	0.18	1.0	8.0	1.00	N/A	
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	U
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMD-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	U
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	U
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	U
ACETONE	0.94	10	0.94	1.00	N/A	U
BENZENE	0.25	0.50	0.85	1.00	N/A	
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMODICHLOROMETHANE	0.17	0.50	0.17	1.00	N/A	U
BROMOFORM	0.13	1.0	0.13	. 100	N/A	U

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## AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL_Buffalo</u>			Contract #:	
Field Sample ID:	TF3M128140A	Lab Sample ID:	A6710209	Matrix:	WATER
% Solids:	*****	Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1~Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	U
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	U
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	0.18	1.00	N/A	U
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.15	- 1.00	N/A	U
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	u
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	
ETHYLBENZENE	0.23	1.0	14	1.00	N/A	
HEXACHLOROBUTADIENE	0.11	0.60	0.11	1.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	7.7	1.00	N/A	
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	
n-BUTYLBENZENE	0.18	1.0	2.0	1.00	N/A	
n-PROPYLBENZENE	0.19	1.0	10	1.00	N/A	-
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	7.2	1.00	N/A	
NAPHTHALENE	0.14	1.0	6.4	1.00	N/A	-BL
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	2.0	1.00	N/A	
SEC-BUTYLBENZENE	0.19	1.0	3.4	1.00	N/A	+
STYRENE	0.21	1.0	0.21	1_00	N/A.	U
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.23	1.00	N/A	U
t-BUTYLBENZENE	0.23	1.0	0.40	1.00	N/A	F
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	υ
I.OLUENE	0.22	1.0	0.22 .	1.00	N/A	U

AFCEE FORM 0-0

Analytical Method:	8260-A98	Preparatory	Method:	<u>sw5030</u>	AAB #:	<u>A6822298</u>
Lab Name:	STL Buffalo				Contract #:	
Field Sample ID:	TF3M128140A	Lab Sar	mple ID:	<u>A6710209</u>	Matrix:	WATER
% Solids:	İ1	nitial Calibrai	tion ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Pr	repared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	υ
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	υ

Surrogate	Recovery	Control Limits	mits Qualifier
TOLUENE-D8	94	81 ~ 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	92	76 - 119	
1,2-DICHLOROETHANE-d4	94	72 - 119	
DIBROMOFLUOROMETHANE	90	85 - 115	

Internal Std	Area Counts	Area Count Limits	Qualifier
FLUDROBENZENE	572460	259272 - 1037088	
CHLOROBENZENE-d5	388150	178213 - 712850	
1,4-DICHLOROBENZENE-d4	190986	88272 - 353088	

## Comments:

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6822298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M133160A	Lab Sample ID:	A6710210	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	υ
1,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	U
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U 1
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	υ
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	υ
1,2,4-TRIMETHYLBENZENE	0.18	1.0	7.0	1.00	N/A	J.
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	 
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	u
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1_00	N/A	U ·
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	U
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	U U
ACETONE	0.94	10	0,94	1.00	N/A	U
BENZENE	0.25	0.50	0.25	1.00	N/A	U
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMODICHLOROMETHANE	0.17	0.50	0.17	1.00	N/A	U
BROMOFORM	0.13	1.0	0.13	1.00	N/A	U
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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8260-A98	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22298
Lab Name:	STL Buffalo			Contract #:	<u></u>
Field Sample ID:	TF3M133160A	Lab Sample ID:	<u>A6710210</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	Ľ
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	U
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	0.18	1.00	N/A	U
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
ETHYLBENZENE	0.23	1.0	0.28	1.00	N/A	F
HEXACHLOROBUTADIENE	0.11	0.60	0.11	1.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	10	1.00	N/A	
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U
n-BUTYLBENZENE	0.18	1.0	1.9	1.00	N/A	
n-PROPYLBENZENE	0.19	1.0	12	1,00	N/A	
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	0.96	1.00	N/A	F
NAPHTHALENE	0.14	1.0	2.4	1.00	N/A	₿
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	1.9	1.00	N/A	
SEC-BUTYLBENZENE	0.19	1.0	7.5	1.00	N/A	
STYRENE	0.21	1.0	0.21	1.00	N/A	U
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.23	1.00	N/A	U
t-BUTYLBENZENE	0.23	1.0	0.94	1,00	N/A	F
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE	0.22	1.0	0.22	1.00	N/A	U

AFCEE FORM 0-2

Analytical Method:	8260-A98	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M133160A	Lab Sample ID:	<u>A6710210</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>1-Jul-2006</u>	Date Analyzed:	<u>1-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLORDETHENE	0.38	1.0	0.38	1.00	N/A	U
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	 N/A	U

Surrogate	Recovery	Control Limits Qualif	ier
TOLUENE-D8	90	81 - 120	****
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	93	76 - 119	·
1,2-DICHLOROETHANE-d4	98	72 - 119	
DIBROMOFLUOROMETHANE	90	85 - 115	<u> </u>

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	577675	259272 - 1037088	
CHLOROBENZENE-d5	389617	178213 - 712850	1
1,4-DICHLOROBENZENE-d4	192597	88272 - 353088	

Comments:

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8260-A98	Preparatory Method:	<u>SW5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	<u></u>
Field Sample ID:	TF3M133160C	Lab Sample ID:	<u>A6710210FD</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	U
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	υ
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	U
1,1-DICHLOROETHANE	0.27	1_0	0.27	1.00	N/A	υ
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	υ
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	U
1,2,4-TRIMETHYLBENZENE	0.18	1.0	9.2	1.00	N/A	J
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	U
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	U
1,2-DIBROMDETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	U
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0,50	0.22	1.00	N/A	U
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	υ
4 - CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	U
ACETONE	0.94	10	0.94	1.00	N/A	U
BENZENE	0.25	0.50	0.25	1.00	N/A	U
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMODICHLOROMETHANE	0.17	0.50	0.17	1.00	N/A	U
BROMOFORM	0.13	1.0	0.13	1.00	N/A	U

and

## AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8260-A98	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M133160C	Lab Sample ID:	<u>A6710210FD</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	U
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	U
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
CHLOROETHANE	0.18	1.0	0.18	1.00	N/A	U
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	υ
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	D.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
ETHYLBENZENE	0.23	1.0	0.31	1.00	N/A	F
HEXACHLOROBUTAD I ENE	0.11	0.60	0.11	1.00	N/A	υ
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	11	1.00	N/A	
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0,12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U
n-BUTYLBENZENE	0.18	1.0	2.2	1.00	N/A	-
n-PROPYLBENZENE	0.19	1.0	13	1.00	N/A	
M,P-XYLENE(SUM OF ISOMERS)	D.44	2.0	1.1	1.00	N/A	F
NAPHTHALENE	0.14	1.0	2.5	1.00	N/A	3 <sup>5</sup>
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	2.2	1.00	N/A	
SEC-BUTYLBENZENE	0.19	1.0	8.3	1.00	N/A	
STYRENE	0.21	1.0	0.21	1.00	N/A	U
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.23	1.00	N/A	U
t-BUTYLBENZENE	0.23	1.0	1.0	1.00	N/A	
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	υ
TOLUENE	0.22	1.0	0.22	1.00	N/A	- U

AFCER FORM 0-2

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M133160C	Lab Sample ID:	A6710210FD	Matrix:	WATER
% Solids:		Initial Calibration ID:	A610001680		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	U
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	U

Surrogate	Recovery	Control Limits	Qualifier	ŭ
TOLUENE-D8	95	81 - 120		WAN
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	98	76 - 119		AM
1,2-DICHLOROETHANE-d4	98	72 - 119		
DIBROMOFLUOROMETHANE	93	85 - 115		

Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	553567	259272 - 1037088	
CHLOROBENZENE-d5	370963	178213 - 712850	
1,4-DICHLOROBENZENE-d4	183527	88272 - 353088	

## Comments:

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Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M21140A	Lab Sample ID:	A6710211	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	U
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	
1,2,4-TRIMETHYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
1,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	U
1,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	U
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	U
ACETONE	D.94	10	0.94	1.00	N/A	U
BENZENE	0.25	0.50	0.25	1.00	N/A	υ
RCMOBENZENE	0.23	1.0	0.23	1.00	N/A	υ υ
BROMOCHLORDMETHANE	0.25	1.0	0.25	1.00	N/A	U
ROMOD I CHLOROME THANE	0.17	0.50	0.17	1.00	N/A	U
ROMOFORM	0.13	1.0	0.13	1.00	N/A	

UNA 2120/06

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22298
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	<u>TF3M21140A</u>	Lab Sample ID:	<u>A6710211</u>	Matrix:	WATER
% Solids:	1	nitial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier	_
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	U	-
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	U	
CHLOROBENZENE	0.19	0.50	0,19	1.00	N/A	U	]
CHLOROETHANE	0.18	1.0	0.72 13	1.00	N/A	ŦV	_¥4
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	U	
CHLOROMETHANE	0.15	1.0	0.62 ====	1.00	N/A	≠ U	*
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	U	]
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U	
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U	
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U	
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	U	
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	U	
HEXACHLOROBUTADIENE	0.11	0.60	0.11	1.00	N/A	U	
ISOPROPYLBENZENE (CUMENE)	0.19	1.0	<b>≈</b> -54	1.00	N/A	Ŧ	]¥
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	U	
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U	
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U	
n-BUTYLBENZENE	0.18	1.0	4.0-12	1.00	N/A		×
n-PROPYLBENZENE	0.19	1.0	8. 1 8.0	1.00	N/A		×
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	1.1	1.00	N/A	F	
NAPHTHALENE	0.14	1.0	1.6 1=8-	1.00	N/A		*
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1_0	0.21	1.00	N/A	U	
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	3.2 3-0	1.00	N/A	FI	]*
SEC-BUTYLBENZENE	0.19	1.0	5.1 📚	1.00	N/A	-===	×
STYRENE	0.21	1.0	0.21	1.00	N/A	U	
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.23	1.00	N/A	U	,
t-BUTYLBENZENE	0.23	1.0	1.2 1	1.00	N/A	F=	X
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	U	
				<u> </u>	N/A	U	1

\* lesnets transferred from dikution sample TF3M2/140ADL

and

AFTER FORM 0-7

Analytical Method:	8260-A98	Preparatory Method:	<u>SW5030</u>	AAB #:	<u>A6B22298</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	•••••
Field Sample ID:	<u>TF3M21140A</u>	Lab Sample ID:	A6710211	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL.	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	U
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	U

Surrogate	Recovery	Control Limits	Qualifier
TOLUENE-D8	88	81 - 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	95	76 - 119	
1,2-DICHLORDETHANE-d4	150	72 - 119	*
DIBROMOFLUOROMETHANE	91	85 - 115	

Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	585768	259272 - 1037088	
CHLOROBENZENE-d5	395879	178213 - 712850	
1,4-DICHLOROBENZENE-d4	198473	88272 - 353088	

## Comments:

# AFCEE ORGANIC ANALYSES DATA PACKAGE

 Analytical Method:
 8260-A98
 AAB #: A6B22301

 Lab Name:
 STL Buffalo
 Contract #: \_\_\_\_\_

 Base/Command:
 Griffiss Airforce Base
 Prime Contractor:
 Fanning, Phillips & Molna

Field Sample ID

Lab Sample ID

TF3M119R12OA TF3M12314OA TF3M12614OA TF3M2114OA <u>A6710204RI</u> <u>A6710206DL</u> <u>A6710207</u> <u>A6710211DL</u>

Comments:

See Case Narrative

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

	DDKD		
Signature:	_ lobola	Name: John Schove	
	CLIF .		
Date:	- F 16 06	Title: <u>Operations Manager</u>	

AFCER FORM 0-1

list

#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8260-A98	Preparatory Method:	<u>SW5030</u>	AAB #:	A6B22301
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	<u>TF3M119R120A</u>	Lab Sample ID:	A6710204R1	Matrix:	WATER
% Solids:	<del></del>	Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	U
,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	N/A	U
,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	U
,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	U
,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	U
,2,4-TRIMETHYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
,2-DICHLOROETHANE	0.23	0.50	0.23	1.00	N/A	U
,2-DICHLOROBENZENE	0.18	1.0	0.18	1.00	N/A	U
, 2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	υ
,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	υ
,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	IJ
,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	U
,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
- CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	U
CHLOROTOLUENE	0.21	1.0	0.21	1.00	N/A	U
CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	U
CETONE	D.94	10	0,94	1.00	N/A	U
ENZENE	D.25	0.50	0.25	1.00	N/A	U
ROMOBENZENE	0.23	1.0	0.23	1.00	N/A	U
ROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
ROMOD I CHLOROMET HANE	0.17	0.50	0.17	1.00	N/A	U
ROMOFORM	0.13	1.0	0.13	1.00		

AFRE FORM 0-2

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	A6822301
Lab Name:	<u>STL_Buffalo</u>			Contract #:	
Field Sample ID:	TF3M119R120A	Lab Sample ID:	<u>A6710204RI</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	U
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	· U
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	υ
CHLOROETHANE	0.18	1.0	0.58	1.00	N/A	F
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.15	1.00	N/A	U
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	Ų
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
DIBROMOMETHANE	0.26	1.0	0.26	1.00	N/A	U
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	υ
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	Ų
HEXACHLOROBUTADIENE	0.11	0.60	0.11	1.00	N/A	U
I SOPROPYLBENZENE (CUMENE)	0.19	1_0	0.19	1.00	N/A	U
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	υ
n-BUTYLBENZENE	D.18	1.0	0.18	1.00	N/A	U
n-PROPYLBENZENE	0.19	1.0	0.19	1.00	N/A	υ
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	0.44	1.00	N/A	U
NAPHTHALENE	0.14	1.0	0.20	1.00	N/A	F
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	0.17	1.00	N/A	U
SEC-BUTYLBENZENE	0.19	1.0	0.19	1.00	N/A	U
STYRENE	0.21	1.0	0.21	1.00	N/A	U
TRICHLORDETHYLENE (TCE)	0.23	1.0	0.25	1.00	N/A	F
t-BUTYLBENZENE	0.23	1.0	0.50	1.00	N/A	F
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE .	0.22	1.0	0.22	1.00	N/A	U

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	<u>A6822301</u>
Lab Name:	<u>STL Buffalo</u>			Contract #:	·
Field Sample ID:	TF3M119R120A	Lab Sample ID:	<u>A6710204RI</u>	Matrix:	WATER
% Solids:	************	Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	U
trans-1,3-DICHLOROPROPENE	0.16	1.0	0.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	U

Surrogate	Recovery	Control Limits	Qualifier
TOLUENE-D8	88	81 - 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	94	76 - 119	
1,2-DICHLOROETHANE-d4	142	72 - 119	
DIBROMOFLUOROMETHANE	90	85 - 115	

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	629062	259272 - 1037088	
CHLOROBENZENE-d5	421486	178213 - 712850	
1,4-DICHLOROBENZENE-d4	206049	88272 - 353088	

#### Comments:

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Analytical Method:	8260-898	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22301
Lab Name:	STL Buffalo			Contract #:	<u></u>
Field Sample ID:	TF3M123140A	Lab Sample ID:	A6710206DL	Matrix:	WATER
% Solids:	I	nitial Calibration ID:	<u>A610001680</u>		
Date Received:	21-Jun-2006	Date Prepared:	2-jul-2006	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
,1,1,2-TETRACHLOROETHANE	0.84	2.0	0.84	4.00	N/A	U
,1,1-TRICHLOROETHANE	1.1	4.0	1.1	4.00	N/A	U
,1,2,2-TETRACHLOROETHANE	0.84	2.0	0.84	4.00	N/A	U
I,1,2-TRICHLOROETHANE	0.86	4.0	0.86	4.00	N/A	U
I,1-DICHLOROETHANE	1.1	4.0	1.1	4.00	N/A	U
,1-DICHLOROETHENE	1_1	4.0	1.1	4.00	N/A	U
I,1-DICHLOROPROPENE	0.92	4.0	0.92	4.00	N/A	U
1,2,3-TRICHLOROBENZENE	0.51	4.0	0.51	4.00	N/A	U
1,2,3-TRICHLOROPROPANE	0.76	4.0	0.76	4.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.56	4.0	0.56	4,00	N/A	υ
1,2,4-TRIMETHYLBENZENE	0.74	4.0	5.5	4.00	N/A	/
1,2-DICHLORGETHANE	0.93	2.0	0.93	4.00	N/A	U
1,2-DICHLOROBENZENE	0.71	4.0	0.71	4,00	N/A	U
1,2-DIBROMO-3-CHLOROPROPANE	1.2	8.0	1.2	4.00	N/A	U
I, 2-DICHLOROPROPANE	1.0	4.0	1.0	4.00	N/A	U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.81	4.0	0.81	4.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.81	4.0	0.88	4.00	N/A	F
1,3-DICHLOROBENZENE	D.64	4.0	0.64	4.00	N/A	U
1,3-DICHLOROPROPANE	0.89	2.0	0.89	4.00	N/A	U
1,4-DICHLOROBENZENE	0.77	2.0	0.77	4.00	N/A	υ
1-CHLOROHEXANE	1.2	4.0	1.2	4.00	N/A	U
2,2-DICHLOROPROPANE	1.1	4.0	1.1	4.00	N/A	U
2-CHLOROTOLUENE	0.83	4.0	0.83	4.00	N/A	U
4-CHLOROTOLUENE	0.74	4.0	0.74	4.00	N/A	U
ACETONE	3.8	40	3.8	4.00	N/A	U
BENZENE	0.99	2.0	0.99	4.00	N/A	U
BROMOBENZENE	0.93	4.0	0.93	4.00	N/A	U
BROMOCHLOROMETHANE	0.99	4.0	0.99	4.00	N/A	υ
BROMODICHLOROMETHANE	0.69	2.0	0.69	4,00	N/A	U
BRDMOFORM	0.54	4.0	0.54	4.00	N/A	U

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Analytical Method:	8260-A98	Preparatory Method:	<u>SW5030</u>	AAB	#: <u>A6B22301</u>	
Lab Name:	<u>STL Buffalo</u>			Contract	#:	
Field Sample ID:	TF3M123140A	Lab Sample ID:	A67102060L	Matri	x: WATER	
% Solids:		Initial Calibration ID:	A610001680			
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyze	ed: <u>2-Jul-2006</u>	

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	1.1	12	1.1	4.00	N/A	U
CARBON TETRACHLORIDE	0.88	4.0	0.88	4.00	N/A	U
CHLOROBENZENE	0.77	2.0	0.77	4.00	N/A	U
CHLORDETHANE	0.72	4.0	0.72	4.00	N/A	U
CHLOROFORM	1.0	2.0	1.0	4.00	N/A	U
CHLOROMETHANE	0.62	4.0	0.62	4.00	N/A	U
cis-1,2-DICHLORDETHYLENE	1.3	4.0	1.3	4.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.95	2.0	0.95	4.00	N/A	U
DIBROMOCHLOROMETHANE	0.61	2.0	0.61	4.00	N/A	U
DIBROMOMETHANE	1.1	4.0	1.1	4.00	N/A	U
DICHLORODIFLUOROMETHANE	0.62	4.0	0.62	4.00	N/A	U
ETHYLBENZENE	0.93	4.0	0.93	4.00	N/A	U
HEXACHLOROBUTADIENE	0.43	2.4	0.43	4.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.76	4.0	29	4.00	N/A	
METHYLENE CHLORIDE	1.2	4.0	1.2	4.00	N/A	U
tert-BUTYL METHYL ETHER	0.49	20	0.49	4.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	3.3	40	3.3	4.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	3.0	40	3.0	4.00	N/A	U
n-BUTYLBENZENE	0.71	4.0	0.71	4.00	N/A	U
n-PROPYLBENZENE	0.76	4.0	2.8	4.00	N/A	F -
M,P-XYLENE(SUM OF ISOMERS)	1.8	8.0	1.8	4.00	N/A	U
NAPHTHALENE	0.56	4.0	0.56	4.00	N/A	U
D-XYLENE (1,2-DIMETHYLBENZENE)	0.84	4.0	0.84	4.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.68	4.0	0.68	4.00	N/A	u
SEC-BUTYLBENZENE	0.78	4.0	0.78	4.00	N/A	u
STYRENE	0.82	4.0	0.82	4.00	N/A	U
TRICHLOROETHYLENE (TCE)	0.94	4.0	0.94	4.00	N/A	U
L-BUTYLBENZENE	0.92	4.0	0.92	4.00	N/A	U
TETRACHLOROETHYLENE (PCE)	D.76	4.0	0.76	4.00	N/A	U
TOLUENE	0.90	4.0	0.90	4.00	N/A	U

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Analytical Method:	8260-A98	Preparator	y Method:	<u>sw5030_</u>	AAB #:	<u>A6B22301</u>
Lab Name:	<u>STL Buffalo</u>				Contract #:	
Field Sample ID:	TF3M123140A	Lab S	ample ID:	A671020601	Matrix:	WATER
% Solids:	I	nitial Calibr	ation ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date	Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	2-Jul-2006

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	1.5	4.0	1.5	4.00	N/A	U
trans-1,3-DICHLOROPROPENE	0.63	4.0	0.63	4.00	N/A	U
TRICHLOROFLUOROMETHANE	0.63	4.0	0,63	4.00	N/A	U
VINYL CHLORIDE	1.0	4.0	1.0	4.00	N/A	U

Surrogate	Recovery	Control Limits Qualifier
TOLUENE-D8	91	81 - 120
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	92	76 - 119
1,2-DICHLOROETHANE-d4	103	72 - 119
DIBROMOFLUOROMETHANE	89	85 - 115

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	572434	259272 - 1037088	
CHLOROBENZENE-d5	383351	178213 - 712850	
1,4-DICHLOROBENZENE-d4	186502	88272 - 353088	]

Comments:

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22301
Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field Sample ID:	TF3M126140A	Lab Sample ID:	<u>A6710207</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,1,1,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,1-TRICHLOROETHANE	0.28	1.0	0.28	1.00	N/A	U
1,1,2,2-TETRACHLOROETHANE	0.21	0.50	0.21	1.00	N/A	U
1,1,2-TRICHLOROETHANE	0.22	1.0	0.22	1.00	· N/A	U
1,1-DICHLOROETHANE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROETHENE	0.27	1.0	0.27	1.00	N/A	U
1,1-DICHLOROPROPENE	0.23	1.0	0.23	1.00	N/A	
1,2,3-TRICHLOROBENZENE	0.13	1.0	0.13	1.00	N/A	u
1,2,3-TRICHLOROPROPANE	0.19	1.0	0.19	1.00	N/A	U
1,2,4-TRICHLOROBENZENE	0.14	1.0	0.14	1.00	N/A	
1,2,4-TRIMETHYLBENZENE	0.18	1.0	0.18	1.00	N/A	
1,2-DICHLORDETHANE	0.23	0.50	0.23	1.00	N/A	U
1,2-DICHLOROBENZENE	0,18	1.0	0.18	1.00	N/A	
1,2-DIBROMO-3-CHLOROPROPANE	0.31	2.0	0.31	1.00	N/A	U
1,2-DICHLOROPROPANE	0.25	1.0	0.25	1.00	N/A	 U
1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)	0.20	1.0	0.20	1.00	N/A	U
1,3,5-TRIMETHYLBENZENE (MESITYLENE)	0.20	1.0	0.20	1.00	N/A	U
1,3-DICHLOROBENZENE	0.16	1.0	0.16	1.00	N/A	U
1,3-DICHLOROPROPANE	0.22	0.50	0.22	1.00	N/A	U
1,4-DICHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	U
1-CHLOROHEXANE	0.30	1.0	0.30	1.00	N/A	U
2,2-DICHLOROPROPANE	0.27	1.0	0.27	1.00	N/A	U
2-CHLOROTOLUENE	D.21	1.0	0.21	1.00	N/A	U
4-CHLOROTOLUENE	0.18	1.0	0.18	1.00	N/A	υ
ACETONE	0.94	10	0.94	1.00	N/A	U
BENZENE	0.25	0.50	0.25	1.00	N/A	Li I
BROMOBENZENE	0.23	1.0	0.23	1.00	N/A	υ
BROMOCHLOROMETHANE	0.25	1.0	0.25	1.00	N/A	U
BROMODICHLOROMETHANE	0.17	0.50	0.17	1.00	N/A	U
BROMOFORM	0.13	1.0	0.13	1.00	N/A	U

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### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8260-A98 Pre	paratory Method:	<u>sw5030</u>	AAB #:	<u>A6822301</u>
Lab Name:	STL Buffalo			Contract #:	<u> </u>
Field Sample ID:	TF3M126140A	Lab Sample ID:	<u>A6710207</u>	Matrix:	WATER
% Solids:	Initial	Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
BROMOMETHANE	0.27	3.0	0.27	1.00	N/A	υ
CARBON TETRACHLORIDE	0.22	1.0	0.22	1.00	N/A	U
CHLOROBENZENE	0.19	0.50	0.19	1.00	N/A	บ
CHLOROETHANE	0.18	1.0	0.62	1.00	N/A	F
CHLOROFORM	0.26	0.50	0.26	1.00	N/A	U
CHLOROMETHANE	0.15	1.0	0.69	1.00	N/A	F
cis-1,2-DICHLOROETHYLENE	0.32	1.0	0.32	1.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.24	0.50	0.24	1.00	N/A	U
DIBROMOCHLOROMETHANE	0.15	0.50	0.15	1.00	N/A	U
D I BROMOME THANE	0.26	1.0	0.26	1.00	N/A	υ
DICHLORODIFLUOROMETHANE	0.15	1.0	0.15	1.00	N/A	υ
ETHYLBENZENE	0.23	1.0	0.23	1.00	N/A	U
HEXACHLOROBUTADIENE	0.11	0.60	0.11	1.00	N/A	U
I SOPROPYLBENZENE (CUMENE)	0.19	1.0	9.6	1.00	N/A	
METHYLENE CHLORIDE	0.31	1.0	0.31	1.00	N/A	U
tert-BUTYL METHYL ETHER	0.12	5.0	0.12	1.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	0.82	10	0.82	1.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	0.76	10	0.76	1.00	N/A	U
n-BUTYLBENZENE	0.18	1.0	0.18	1.00	N/A	U
n-PROPYLBENZENE	0.19	1.0	1.4	1.00	N/A	
M,P-XYLENE(SUM OF ISOMERS)	0.44	2.0	0.44	1.00	N/A	U
NAPHTHALENE	0.14	1.0	0.22	1.00	N/A	F
O-XYLENE (1,2-DIMETHYLBENZENE)	0.21	1.0	0.21	1.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.17	1.0	0.17	1.00	N/A	υ
SEC-BUTYLBENZENE	0.19	1.0	4.4	1.00	N/A	
STYRENE	0.21	1.0	0.21	1.00	N/A	U
TRICHLOROETHYLENE (TCE)	0.23	1.0	0.23	1.00	N/A	U
t-BUTYLBENZENE	0.23	1.0	2.4	1.00	N/A	
TETRACHLOROETHYLENE(PCE)	0.19	1.0	0.19	1.00	N/A	U
TOLUENE	.0.22	1.0	0.22	1.00	N/A	U

Analytical Method:	8260-A98	Preparatory Method:	<u>sw5030</u>	AAB #	: <u>A6B22301</u>
Lab Name:	<u>STL Buffalo</u>			Contract #	*
Field Sample ID:	TF3M126140A	Lab Sample ID:	A6710207	Matrix	: WATER
% Solids:	*****	Initial Calibration ID:	A610001680		
Date Received:	21-Jun-2006	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL.	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	0.38	1.0	0.38	1.00	N/A	U
trans-1,3-DICHLOROPROPENE	0.16	1.0	D.16	1.00	N/A	U
TRICHLOROFLUOROMETHANE	0.16	1.0	0.16	1.00	N/A	U
VINYL CHLORIDE	0.26	1.0	0.26	1.00	N/A	U

Surrogate	Recovery	Control Limits	Qualifier
TOLUENE-D8	82	81 - 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	92	76 - 119	1
1,2-DICHLORGETHANE-d4	114	72 - 119	
DIBROMOFLUOROMETHANE	88	85 - 115	

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	625685	259272 - 1037088	
CHLOROBENZENE-d5	418621	178213 - 712850	
1,4-DICHLOROBENZENE-d4	208116	88272 - 353088	

#### Comments:

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## AFCEE DRGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22301
Lab Name:	<u>STL Buffalo</u>			Contract #:	<u> </u>
Field Sample ID:	TF3M21140A	Lab Sample ID:	A6710211DL	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

1,1,1,2-TETRACHLORDETHANE         0.84         2.0         0.84         4.00         N/A           1,1,1-TRICHLORDETHANE         1.1         4.0         1.1         4.00         N/A           1,1,2,2-TETRACHLORDETHANE         0.84         2.0         0.84         4.00         N/A           1,1,2,2-TETRACHLORDETHANE         0.86         4.0         0.86         4.00         N/A           1,1,2-TRICHLORDETHANE         0.86         4.0         0.86         4.00         N/A           1,1-DICHLORDETHANE         1.1         4.0         1.1         4.00         N/A           1,1-DICHLORDETHANE         1.1         4.0         1.1         4.00         N/A           1,1-DICHLORDETHANE         1.1         4.0         1.1         4.00         N/A           1,1-DICHLORDETHANE         0.76         4.0         0.76         4.00         N/A           1,2,3-TRICHLORDBENZENE         0.55         4.0         0.56         4.00         N/A           1,2,4-TRIMETHYLBENZENE         0.74         4.0         0.74         4.00         N/A           1,2,4-TRIMETHYLBENZENE         0.71         4.0         0.71         4.00         N/A           1,2-DICHLOROBENZENE <td< th=""><th>Qualifier</th></td<>	Qualifier
1,1,2,2-TETRACHLOROETHANE       0.84       2.0       0.84       4.00       N/A         1,1,2,2-TETRACHLOROETHANE       0.86       4.0       0.86       4.00       N/A         1,1,2-TETRICHLOROETHANE       0.86       4.0       0.86       4.00       N/A         1,1-DICKLOROETHANE       1.1       4.0       1.1       4.00       N/A         1,1-DICKLOROETHENE       1.1       4.0       1.1       4.00       N/A         1,1-DICKLOROETHENE       0.51       4.0       0.92       4.00       N/A         1,2,3-TETICHLOROBENZENE       0.51       4.0       0.51       4.00       N/A         1,2,4-TETRICHLOROBENZENE       0.76       4.0       0.76       4.00       N/A         1,2,4-TETRICHLOROBENZENE       0.74       4.0       0.74       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.74       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DIBROMO-3-CHLOROPROPANE       1.2       8.0       1.2       4.00       N/A         1,2-DIBROMO-3-CHLOROPROPANE       1.0       4.00       N/A       1.3,5-TETIMETHYLENE DIBROMIDE)       0.81	U
17.17.2.1         17.17.2.1         17.17.2.1         17.17.2.1         17.17.2.1         17.17.2.1         17.1         4.00         1.1         4.00         N/A           1,1-2.TRICHLOROETHANE         1.1         4.0         1.1         4.00         N/A           1,1-DICHLOROETHANE         1.1         4.0         1.1         4.00         N/A           1,1-DICHLOROETHANE         1.1         4.0         1.1         4.00         N/A           1,1-DICHLOROETHANE         0.92         4.0         0.92         4.00         N/A           1,2-JATRICHLOROBENZENE         0.51         4.0         0.51         4.00         N/A           1,2,3-TRICHLOROBENZENE         0.76         4.0         0.76         4.00         N/A           1,2,4-TRICHLOROBENZENE         0.76         4.0         0.74         4.00         N/A           1,2-DICHLOROBENZENE         0.71         4.0         0.71         4.00         N/A           1,2-DICHLOROBENZENE         0.71         4.0         0.71         4.00         N/A           1,2-DIBROMO-3-CHLOROPROPANE         1.2         8.0         1.2         4.00         N/A           1,2-DIBROMO-3-CHLOROPROPANE         1.0         4.00 <t< td=""><td>U</td></t<>	U
1,1-1,2-TRICHONOCTHAME       1.1       4.0       1.1       4.00       N/A         1,1-DICHLOROETHAME       1.1       4.0       1.1       4.00       N/A         1,1-DICHLOROETHEME       1.1       4.0       1.1       4.00       N/A         1,1-DICHLOROETHEME       0.92       4.0       0.92       4.00       N/A         1,2,3-TRICHLOROBENZENE       0.51       4.0       0.51       4.00       N/A         1,2,3-TRICHLOROBENZENE       0.76       4.0       0.76       4.00       N/A         1,2,4-TRIMETHYLBENZENE       0.74       4.0       0.76       4.00       N/A         1,2-DICHLOROBENZENE       0.74       4.0       0.74       4.00       N/A         1,2-4-TRIMETHYLBENZENE       0.74       4.0       0.74       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DIGROMO-3-CHLOROPROPANE       1.0       4.0       0.71       4.00       N/A         1,2-DIGROMO-3-CHLOROPROPAN	U
1,1-DICHLORCETHARE         1.1         4.0         1.1         4.00         N/A           1,1-DICHLORCETHENE         0.92         4.0         0.92         4.00         N/A           1,2-JICHLOROPROPENE         0.92         4.0         0.92         4.00         N/A           1,2,3-TRICHLOROBENZENE         0.51         4.0         0.51         4.00         N/A           1,2,3-TRICHLOROBENZENE         0.76         4.0         0.76         4.00         N/A           1,2,4-TRIMETHYLBENZENE         0.76         4.0         0.74         4.00         N/A           1,2-OICHLOROBENZENE         0.74         4.0         0.74         4.00         N/A           1,2-A-TRIMETHYLBENZENE         0.74         4.0         0.74         4.00         N/A           1,2-DICHLOROBENZENE         0.71         4.0         0.71         4.00         N/A           1,2-DIGHLOROBENZENE         0.71         4.0         0.71         4.00         N/A           1,2-DIGHLOROPROPANE         1.2         8.0         1.2         4.00         N/A           1,2-DIGHLOROPROPANE         1.0         4.0         0.81         4.00         N/A           1,2-DIGHLOROPROPANE         0.81	U
1,1-DICHLOROPROPENE         0.92         4.0         0.92         4.00         N/A           1,2,3-TRICHLOROBENZENE         0.51         4.0         0.51         4.00         N/A           1,2,3-TRICHLOROBENZENE         0.51         4.0         0.76         4.00         N/A           1,2,3-TRICHLOROBENZENE         0.76         4.0         0.76         4.00         N/A           1,2,4-TRICHLOROBENZENE         0.56         4.0         0.56         4.00         N/A           1,2,4-TRICHLOROBENZENE         0.74         4.0         0.74         4.00         N/A           1,2,4-TRIMETHYLBENZENE         0.74         4.0         0.74         4.00         N/A           1,2-DICHLOROBENZENE         0.71         4.0         0.71         4.00         N/A           1,2-DICHLOROBENZENE         0.71         4.0         0.71         4.00         N/A           1,2-DICHLOROBENZENE         0.71         4.0         0.71         4.00         N/A           1,2-DIGHOROPAPANE         1.2         8.0         1.2         4.00         N/A           1,2-DISROMO-3-CHLOROPROPANE         1.0         4.0         0.81         4.00         N/A           1,2-DIGHOROPROPANE <t< td=""><td>U</td></t<>	U
1,2,3-TRICHLOROBENZENE       0.51       4.0       0.51       4.00       N/A         1,2,3-TRICHLOROBENZENE       0.76       4.0       0.76       4.00       N/A         1,2,3-TRICHLOROBENZENE       0.76       4.0       0.76       4.00       N/A         1,2,4-TRICHLOROBENZENE       0.76       4.0       0.76       4.00       N/A         1,2,4-TRICHLOROBENZENE       0.74       4.0       0.74       4.00       N/A         1,2-4-TRIMETHYLBENZENE       0.74       4.0       0.74       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DIENDROBO-3-CHLOROPROPANE       1.2       8.0       1.2       4.00       N/A         1,2-DIENDROPROPANE       1.0       4.0       1.0       4.00       N/A         1,2-DIENDROPROPANE       0.81       4.0       0.81       4.00       N/A         1,3-STRIMETHYLBENZENE (MESITYLENE)       0.81       4.0       0.64       4.00       N/A         1,	U
1,2,3 TRICHLOROPROPANE       0.76       4.00       N/A         1,2,3 TRICHLOROPROPANE       0.76       4.00       N/A         1,2,4 TRICHLOROBENZENE       0.56       4.00       0.56       4.00       N/A         1,2,4 TRICHLOROBENZENE       0.74       4.00       0.74       4.00       N/A         1,2,4 TRIMETHYLBENZENE       0.74       4.00       0.74       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.00       0.71       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.00       0.71       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.00       0.71       4.00       N/A         1,2-DIBROMO-3-CHLOROPROPANE       1.2       8.0       1.2       4.00       N/A         1,2-DIBROMO-3-CHLOROPROPANE       1.0       4.00       N/A       1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)       0.81       4.00       N/A         1,2-DIBROMOETHANE (MESITYLENE)       0.81       4.00       0.81       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROBENZENE       0.89       2.0       0.89       4.00       N/A         <	U
1,2,4-TRICHLOROBENZENE       0.56       4.0       0.56       4.00       N/A         1,2,4-TRICHLOROBENZENE       0.74       4.0       0.74       4.00       N/A         1,2,4-TRIMETHYLBENZENE       0.74       4.0       0.74       4.00       N/A         1,2-DICHLOROETHANE       0.93       2.0       0.93       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DICHLOROPROPANE       1.2       8.0       1.2       4.00       N/A         1,2-DICHLOROPROPANE       1.0       4.0       1.0       4.00       N/A         1,2-DICHLOROPROPANE       1.0       4.0       1.0       N/A         1,2-DICHLOROPROPANE       0.81       4.00       N/A         1,2-DICHLOROPROPANE       0.81       4.00       N/A         1,3-DICHLOROPROPANE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A	U
1,2,4 TRIMETHYLBENZENE       0.74       4.0       0.74       4.00       N/A         1,2,4-TRIMETHYLBENZENE       0.73       2.0       0.93       4.00       N/A         1,2-DICHLOROETHANE       0.93       2.0       0.93       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DIBROMO-3-CHLOROPROPANE       1.2       8.0       1.2       4.00       N/A         1,2-DIBROMO-3-CHLOROPROPANE       1.0       4.0       1.0       4.00       N/A         1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)       0.81       4.0       0.81       4.00       N/A         1,3-5-TRIMETHYLBENZENE (MESITYLENE)       0.81       4.0       0.81       4.00       N/A         1,3-DICHLOROPROPANE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROPROPANE       0.89       2.0       0.89       4.00       N/A         1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A <t< td=""><td>Ų</td></t<>	Ų
1,2-DICHLOROETHANE       0.93       2.0       0.93       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DICHLOROBENZENE       1.2       8.0       1.2       4.00       N/A         1,2-DIBROMO-3-CHLOROPROPANE       1.0       4.0       1.2       4.00       N/A         1,2-DICHLOROPROPANE       1.0       4.0       1.0       4.00       N/A         1,2-DICHLOROPROPANE       1.0       4.0       0.81       4.00       N/A         1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)       0.81       4.0       0.81       4.00       N/A         1,3-5-TRIMETHYLBENZENE (MESITYLENE)       0.81       4.0       0.81       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROPROPANE       0.89       2.0       0.89       4.00       N/A         1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1,4-DICHLOROBENZENE       1.1       4.0       1.1       4.00       N/A         2,2-DI	U
1,2-DICHLOROBENZENE       0.71       4.0       0.71       4.00       N/A         1,2-DIBROMO-3-CHLOROPROPANE       1.2       8.0       1.2       4.00       N/A         1,2-DIBROMO-3-CHLOROPROPANE       1.0       4.0       1.2       4.00       N/A         1,2-DICHLOROPROPANE       1.0       4.0       1.0       4.00       N/A         1,2-DICHLOROPROPANE       1.0       4.0       0.81       4.00       N/A         1,2-DIBROMOETHANE (ETHYLENE DIBROMIDE)       0.81       4.0       0.81       4.00       N/A         1,3-5-TRIMETHYLBENZENE (MESITYLENE)       0.81       4.0       0.81       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROPROPANE       0.89       2.0       0.89       4.00       N/A         1,3-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1,4-DICHLOROBENZENE       1.1       4.0       1.1       4.00       N/A         2,2-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         <	U
1,2-DIBROMO-3-CHLOROPROPANE       1.2       8.0       1.2       4.00       N/A         1,2-DICHLOROPROPANE       1.0       4.0       1.0       4.00       N/A         1,2-DICHLOROPROPANE       1.0       4.0       1.0       4.00       N/A         1,2-DICHLOROPROPANE       0.81       4.0       0.81       4.00       N/A         1,2-DIGROMOETHANE (ETHYLENE DIBROMIDE)       0.81       4.0       0.81       4.00       N/A         1,3-DICHLOROBENZENE (MESITYLENE)       0.81       4.0       0.64       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1,4-DICHLOROBENZENE       1.2       4.0       1.2       4.00       N/A         2,2-DICHLOROPROPANE       1.1       4.0       1.1       4.00       N/A         2,2-DICHLOROPROPANE       0.83       4.0       0.83       4.00       N/A         2,2-DICHLOROPROPANE       0.74       4.0       0.74       4.00       N/A         2-CHLOROT	U
1,2-DICHLOROPROPANE       1.0       4.0       1.0       4.00       N/A         1,2-DICHLOROPROPANE       1.0       4.0       0.81       4.00       N/A         1,2-DIGROMOETHANE (ETHYLENE DIBROMIDE)       0.81       4.0       0.81       4.00       N/A         1,3-5-TRIMETHYLENENE (MESITYLENE)       0.81       4.0       0.81       4.00       N/A         1,3-DICHLOROBENZENE       (MESITYLENE)       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,4-DICHLOROPROPANE       0.89       2.0       0.89       4.00       N/A         1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1,2-DICHLOROPROPANE       1.2       4.0       1.1       4.00       N/A         2,2-DICHLOROPROPANE       1.1       4.0       1.1       4.00       N/A         2,2-DICHLOROPROPANE       0.83       4.0       0.83       4.00       N/A         2-CHLOROTOLUENE       0.83       4.0       0.74       4.00       N/A <td>U</td>	U
1,2-DIECORDENSERAL       0.81       4.0       0.81       4.00       N/A         1,3,5-TRIMETHYLENE DIBROMIDE)       0.81       4.0       0.81       4.00       N/A         1,3,5-TRIMETHYLENZENE (MESITYLENE)       0.81       4.0       0.81       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1-CHLOROHEXANE       1.2       4.0       1.2       4.00       N/A         2,2-DICHLOROPROPANE       1.1       4.0       1.1       4.00       N/A         2,2-DICHLOROPROPANE       0.83       4.0       0.83       4.00       N/A         2-CHLOROTOLUENE       0.83       4.0       0.74       4.00       N/A	U
1,2-01BROMOLTINAL (CHITELAL OTBIOLIDE)       0.81       4.0       0.81       4.00       N/A         1,3,5-TRIMETHYLBENZENE (MESITYLENE)       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROPROPANE       0.89       2.0       0.89       4.00       N/A         1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1,4-DICHLOROBENZENE       1.2       4.0       1.2       4.00       N/A         1,2-DICHLOROPROPANE       1.2       4.0       1.1       4.00       N/A         2,2-DICHLOROPROPANE       1.1       4.0       1.1       4.00       N/A         2,2-DICHLOROPROPANE       0.83       4.0       0.83       4.00       N/A         2,2-DICHLOROPROPANE       1.1       4.0       1.1       4.00       N/A         2-CHLOROTOLUENE       0.83       4.0       0.83       4.00       N/A	U
1,3.5 TKINETITIELEKE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROBENZENE       0.64       4.0       0.64       4.00       N/A         1,3-DICHLOROPROPANE       0.89       2.0       0.89       4.00       N/A         1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1-CHLOROBENZENE       1.2       4.0       1.2       4.00       N/A         2,2-DICHLOROPROPANE       1.1       4.0       1.1       4.00       N/A         2-CHLOROTOLUENE       0.83       4.0       0.83       4.00       N/A	u
1,3-DICHLOROPROPANE       0.89       2.0       0.89       4.00       N/A         1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1-CHLOROBENZENE       1.2       4.0       1.2       4.00       N/A         2,2-DICHLOROPROPANE       1.1       4.0       1.1       4.00       N/A         2,2-DICHLOROPROPANE       1.1       4.0       1.1       4.00       N/A         2-CHLOROTOLUENE       0.83       4.0       0.83       4.00       N/A	U
1,4-DICHLOROBENZENE       0.77       2.0       0.77       4.00       N/A         1-CHLOROBENZENE       1.2       4.0       1.2       4.00       N/A         2,2-DICHLOROPROPANE       1.1       4.0       1.1       4.00       N/A         2-CHLOROTOLUENE       0.83       4.0       0.83       4.00       N/A         4-CHLOROTOLUENE       0.74       4.0       0.74       4.00       N/A	บ
1-CHLOROHEXANE       1.2       4.0       1.2       4.00       N/A         2,2-DICHLOROPROPANE       1.1       4.0       1.1       4.00       N/A         2-CHLOROTOLUENE       0.83       4.0       0.83       4.00       N/A         4-CHLOROTOLUENE       0.74       4.0       0.74       4.00       N/A	U
International         Interna         International         International<	υ
2-CHLOROTOLUENE         0.83         4.0         0.83         4.00         N/A           4-CHLOROTOLUENE         0.74         4.0         0.74         4.00         N/A	υ
4-CHLOROTOLUENE         0.74         4.0         0.74         4.00         N/A	U
	U
	U
ACETONE 3.8 40 3.8 4.00 N/A	U
BENZENE 0.99 2.0 0.99 4.00 N/A	U
BROMOBENZENE 0.93 4.0 0.93 4.00 N/A	U
BROMOCHLOROMETHANE 0.99 4.0 0.99 4.00 N/A	U
BROMODICHLOROMETHANE 0.69 2.0 0.69 4.00 N/A	U
BROMOFORM 0.54 .4.0 0.54 4.00 N/A	U

AFRE FORM 0-2

A	nalytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>s₩5030</u>	AAB #:	<u>A6B22301</u>
	Lab Name:	<u>STL Buffalo</u>			Contract #:	·····
	Field Sample ID:	TF3M21140A	Lab Sample ID:	A6710211DL	Matrix:	WATER
	% Solids:		Initial Calibration ID:	A610001680		
	Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL.	RL	Concentration	Dilution	Confirm	0.001144
BROMOMETHANE						Qualifier
	1.1	12	1.1	4.00	N/A	U
	0.88	4.0	0.88	4.00	N/A	U
CHLOROBENZENE	0.77	2.0	0.77	4.00	N/A	U
CHLOROETHANE	0.72	4.0	0.72	4.00	N/A	U
CHLOROFORM	1.0	2.0	1_0	4.00	N/A	U
CHLOROMETHANE	0.62	4.0	0.62	4.00	N/A	U
cis-1,2-DICHLOROETHYLENE	1.3	4.0	1.3	4.00	N/A	U
cis-1,3-DICHLOROPROPENE	0.95	2.0	0.95	4.00	N/A	U
DIBROMOCHLOROMETHANE	0.61	2.0	0.61	4.00	N/A	<u></u> ບ
DIBROMOMETHANE	1.1	4.0	1.1	4.00	N/A	U
DICHLORODIFLUOROMETHANE	0.62	4.0	0.62	4.00	N/A	U
ETHYLBENZENE	0.93	4.0	0.93	4.00	N/A	U U
HEXACHLOROBUTADIENE	0.43	2.4	0.43	4.00	N/A	U
ISOPROPYLBENZENE (CUMENE)	0.76	4.0	54 -	4.00	N/A	•
METHYLENE CHLORIDE	1.2	4.0	1.2	4.00	N/A	U
tert-BUTYL METHYL ETHER	0.49	20	D.49	4.00	N/A	U
METHYL ETHYL KETONE (2-BUTANONE)	3.3	40	3.3	4.00	N/A	U
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	3.0	40	3.0	4.00	N/A	U
n-BUTYLBENZENE	0.71	4.0	4.0 K	4.00	N/A	
n-PROPYLBENZENE	0.76	4.0	8.1 🕌	4.00	N/A	
M,P-XYLENE(SUM OF ISOMERS)	1.8	8.0	1.8	4.00	N/A	U
NAPHTHALENE	0.56	4.0	1.6 4	4.00	N/A	F
O-XYLENE (1,2-DIMETHYLBENZENE)	0.84	4.0	0.84	4.00	N/A	U
P-CYMENE (p-ISOPROPYLTOLUENE)	0.68	4.0	3.2 *	4.00	N/A	F
SEC-BUTYLBENZENE	0.78	4.0	5.1 4	4.00	N/A	
STYRENE	0.82	4.0	0.82	4.00	N/A	U
TRICHLOROETHYLENE (TCE)	0.94	4.0	0.94	4.00	N/A	U
t-BUTYLBENZENE	0.92	4.0	1.2 🔆	4.00	N/A	F
TETRACHLOROETHYLENE(PCE)	0.76	4.0	0.76	4.00	N/A	U
TOLUENE	0.90	4.0	0.90	4,00	N/A	U
	······	L				

\* lesubb transferred to original sample TF3 M21140A

AFREE FORM 0-2

Analytical Method:	<u>8260-A98</u>	Preparatory Method:	<u>sw5030</u>	AAB #:	A6B22301
Lab Name:	STL Buffalo			Contract #:	
Field Sample ID:	TF3M21140A	Lab Sample ID:	A6710211DL	Matrix:	WATER
% Solids:	Init	ial Calibration ID:	<u>A610001680</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>2-Jul-2006</u>	Date Analyzed:	<u>2-Jul-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
trans-1,2-DICHLOROETHENE	1.5	4.0	1.5	4.00	N/A	υ
trans-1,3-DICHLOROPROPENE	0.63	4.0	0.63	4.00	N/A	U
TRICHLOROFLUOROMETHANE	0.63	4.0	0.63	4.00	N/A	U
VINYL CHLORIDE	. 1.0	4.0	1.0	4.00	N/A	U

Surrogate	Recovery	Control Limits	Qualifier
TOLUENE-D8	88	81 - 120	
1-BROMO-4-FLUOROBENZENE (4-BROMOFLUOROBENZENE	91	76 - 119	
1,2-DICHLOROETHANE-d4	104	72 - 119	
DIBROMOFLUOROMETHANE	88	85 - 115	

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Internal Std	Area Counts	Area Count Limits	Qualifier
FLUOROBENZENE	571233	259272 - 1037088	
CHLOROBENZENE-d5	383596	178213 - 712850	
1,4-DICHLOROBENZENE-d4	189115	88272 - 353088	

Comments:

# AFCEE ORGANIC ANALYSES DATA PACKAGE

	1		
Analytical Metho	d: <u>8270-A98</u>	AAB #: <u>A6B21680</u>	
Lab Nar	e: <u>STL Buffalo</u>	Contract #:	
Base/Conman	d: <u>Griffiss Airforce Base</u>	Prime Contractor: Fanning, Phi	illips & Molna
	Field Sample ID	Lab Sample ID	
	0620060E TF3M119R120A TF3M119R120A TF3M119R120A TF3M121R120A	<u>A6710213</u> <u>A6710204</u> <u>A6710204MS</u> <u>A6710204SD</u> <u>A6710205</u>	

Comments:

See Case Narrative

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

<u>.</u>	
Signature:	$\geq$
Date:	

Name: John Schove

Title: Operations Manager

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### AFPEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytic	al Method:	8270-A98	Preparatory M	ethod:	<u>sw3510</u>		AAB #: <u>A6B</u>	21680	
	Lab Name:	STL Buffalo				Contr	act #:		
Field	Sample ID:	0620060E	Lab Samp	le ID:	A6710213	. М	atrix: <u>WAT</u>	ER	
	% Solids:	ž1	nitial Calibratio	on ID:	A610001637	7			
Date	Received:	<u>21-Jun-2006</u>	Date Prep	bared:	26-Jun-200	<u>)6</u> Date Ana	lyzed: <u>28</u>	<u>Jun-2006</u>	
	Concentration Units (ug/L or mg/kg dry weight): UG/L								
	Analyte		MDL		RL	Concentration	Dilution	Confirm	Qualifi
TRICHLOROBEN	ZENE		2		10	2	1.00	N/A	U
CHLOROBENZEN	-		2		10	2	1.00	N/A	U
CHLOROBENZEN			2		10	2	1.00	N/A	U
CHLOROBENZEN	ž		2		10	2	1.00	N/A	υ
ITROTOLUENE			2		10	2	1.00	N/A	U

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Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,2,4-TRICHLOROBENZENE	2	10	2	1.00	N/A	U
1,2-DICHLOROBENZENE	2	10	2	1.00	N/A	U
1,3-DICHLOROBENZENE	2	10	2	1.00	N/A	U
1,4-DICHLOROBENZENE	2	10	2	1.00	N/A	υ
2,4-DINITROTOLUENE	2	10	2	1.00	N/A	
2,6-DINITROTOLUENE	2	10	.2	1.00	N/A	U
2-CHLORONAPHTHALENE	2	10	2	1.00	N/A	U
2-METHYLNAPHTHALENE	0.09	10	0.09	1.00	N/A	U
2-NITROANILINE	2	50	2	1.00	N/A	U
3-NITROANILINE	2	50	2	1.00	N/A	U
3,3'-DICHLOROBENZIDINE	10	20	10	1.00	N/A	U
4-BROMOPHENYL PHENYL ETHER	2	10	2	1.00	N/A	U
4-CHLOROANILINE	4	20	4	1.00	N/A	υ
4-CHLOROPHENYL PHENYL ETHER	2	10	2	1.00	N/A	U
4-NITROANILINE	2	50	2	1.00	N/A	U
ACENAPHTHYLENE	0.09	10	0.09	1.00	N/A	U
ACENAPHTHENE	0.1	10	0.1	1.00	N/A	U
ANTHRACENE	0.1	10	0.1	1.00		U
BENZO(a)ANTHRACENE	0.2	10	0.2	1.00	 N/A	U
BENZO(a)PYRENE	0.09	10	0.09	1.00	N/A	U
8ENZO(k)FLUORANTHENE	0.1	10	0.1	1.00	N/A	U
BENZO(b)FLUORANTHENE	0.2	10	0.2	1.00	N/A	U
BENZO(g,h,i)PERYLENE	0.1	10	0.1	1.00	N/A	U
BENZYL ALCOHOL	2	20	2	1.00	N/A	U
bis(2-CHLOROETHOXY) METHANE	2	10	2	1.00	N/A	U
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHE	2	10	2	1.00	N/A	U
bis(2-CHLOROISOPROPYL) ETHER	2	10	2	1.00	N/A	U
bis(2-ETHYLHEXYL) PHTHALATE	2	10	2	1.00	N/A	U
BENZYL BUTYL PHTHALATE	2	10	2	1.00	N/A	U
CHRYSENE	0.2	10	0.2	1.00	N/A	υ

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# AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytic	al Method: <u>8270-A98</u>	Preparatory Me	thod: <u>SW3510</u>	į	aab #: <u>A6B</u>	21680	
	Lab Name: <u>STL_Buffalo</u>			Contra	act #:		
Field	Sample ID: <u>0620060E</u>	Lab Sampl	e ID: <u>A6710213</u>	<u>-</u>	atrix: <u>WATI</u>	R	
	% Solids:	Initial Calibratio	n ID: <u>A610001637</u>	-			
Date	Received: 21-Jun-2006	Date Prep	oared: <u>26-Jun-200</u>	<u>)6</u> Date Ana	lyzed: <u>28-</u>	Jun-2006	
	Concentration Units (ug/	L or mg∕kg dry wei	ght): <u>UG/L</u>				
	Analyte	MDL.	RL	Concentration	Dilution	Confirm	Qualifier
DI-n-BUTYL PHTHALA	1E	3	10	3	1.00	N/A	U
DI-n-OCTYL PHTHALA	ſΈ	2	10	2	1.00	N/A	U .
DIBENZ(a,h)ANTHRAC	žne	0.1	10	0.1	1.00	N/A	U
DIBENZOFURAN		0.1	10	0.1	1.00	N/A	U
DIETHYL PHTHALATE		2	10	2	1.00	N/A	U
DIMETHYL PHTHALATE	,	2	10	2	1.00	N/A	U
FLUORANTHENE		0.1	10	0.1	1.00	N/A	U
FLUORENE		0.1	10	0.1	1.00	N/A	U
HEXACHLOROBENZENE		2	10	2	1.00	N/A	U

LUORENE	0.1	10	0.1	1.00	N/A	U
IEXACHLOROBENZENE	2	10	2	1.00	N/A	U
IEXACHLOROBUTAD I ENE	4	. 10	4	1.00	N/A	U
IEXACHLOROETHANE	3	10	3	1.00	N/A	U
NDENO(1,2,3-c,d)PYRENE	0.1	10	0.1	1.00	N/A	U
SOPHORONE	1	10	1	1.00	N/A	U
N-NITROSODIPHENYLAMINE	3	10	3	1.00	N/A	U
NITROSODI - n-PROPYLAMINE	2	10	2	1.00	N/A	υ
NAPHTHALENE	0.1	10	0.1	1.00	N/A	U
NITROBENZENE	1	10	1	1.00	N/A	U
PHENANTHRENE	0.1	10	0.1	1.00	N/A	U
PYRENE	0.2	10	0.2	1.00	N/A	U
2,4,5-TRICHLOROPHENOL	2	50	2	1.00	N/A	U
2,4,6-TRICHLOROPHENOL	2	10	2	1.00	N/A	U
2,4-DICHLOROPHENOL	2	10	2	1.00	N/A	U
2,4-DIMETHYLPHENOL	1	10	1	1.00	N/A	U
2,4-DINITROPHENOL	10	50	10	1.00	N/A	U
2-CHLOROPHENOL	1	10	1	1.00	N/A	U
2-METHYLPHENOL (o-CRESOL)	2	10	2	1.00	N/A	U
2-NITROPHENOL	1	10	1	1.00	N/A	U
4,6-DINITRO-2-METHYLPHENOL	9	50	9	1.00	N/A	U
4-CHLORO-3-METHYLPHENOL	2	20	2	1.00	N/A	U
4-METHYLPHENOL (p-CRESOL)	3	50	3	1.00	N/A	U

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## AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analyti	cal Method:	<u>8270-A98</u>	Preparatory Method:	SW3510		AAB #: <u>A6B2</u>	1680	
	Lab Name:	<u>STL Buffalo</u>			Contr	act #:	·	
Field	Sample ID:	0620060E	Lab Sample ID:	A6710213	м	atrix: <u>WATE</u>	R	
	% Solids:		Initial Calibration ID:	A610001637				
Dati	e Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>26-Jun-200</u>	<u>6</u> Date Ana	lyzed: <u>28-</u>	<u>un-2006</u>	
	Concentr	ation Units (u	g/L or mg/kg dry weight):	UG/L				
	Analyte		MDL	RL	Concentration	Dilution	Confirm	Qualifier
4-NITROPHENOL			4	50	4	1.00	N/A	U
BENZOIC ACID				100	24	1 00		

BENZOIC ACID	31	100	31	1.00	N/A	U
PENTACHLOROPHENOL	11	50	11	1.00	N/A	U
PHENOL	3	10	3	1.00	N/A	ย

Surrogate	Recovery	Control Limits	Qualifier
NITROBENZENE-D5	74	41 - 120	
2-FLUOROBIPHENYL	82	48 - 120	
TERPHENYL-D14	89	51 - 135	
PHENOL-D5	30	20 - 120	
2-FLUOROPHENOL	42	20 - 120	
2,4,6-TRIBROMOPHENOL	82	42 - 124	

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Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-DICHLOROBENZENE-d4	97046	51959 - 207836	
NAPHTHALENE-d8	420401	230752 - 923008	
ACENAPHTHENE-d10	225206	122046 - 488184	
PHENANTHRENE-d10	414987	200494 - 801974	
CHRYSENE-d12	384586	193477 - 773908	
PERYLENE-d12	358796	196322 - 785286	

Comments:

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AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

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Analytic	al Method: <u>8270-A98</u>	Preparatory Me	thod: <u>SW3510</u>	AAB #: <u>A6B21680</u>			
	Lab Name: <u>STL Buffalo</u>		Contract #:				
Field	Sample ID: <u>TF3M119R12OA</u>	Lab Sampl	e ID: <u>A6710204</u>	Matrix: <u>WATER</u>			
	% Solids: In	itial Calibratic	n 1D: <u>A610001637</u>				
Date	Received: <u>21-Jun-2006</u>	Date Prep	pared: <u>26-Jun-200</u>	6 Date Anal	yzed: <u>28-J</u>	un-2006	
	Concentration Units (ug/L	or mg/kg dry wei	ight): <u>UG/L</u>				
				<b></b>	Dilution	Confirm	Qualifier
	Analyte	MDL	RL				U
1,2,4-TRICHLOROBEN	ZENE	2	10	2	1.00	N/A	U
1,2-DICHLOROBENZEN	E	2	10	2	1.00	N/A	
1,3-DICHLOROBENZEN	E	2	10	2	1.00	N/A	U
1,4-DICHLOROBENZEN	ie	2	10	2	1.00	N/A	U 
2,4-DINITROTOLUEN		2	10	2	1.00	N/A	U
2,6-DINITROTOLUEN		2	10	2	1.00	N/A	U
2-CHLORONAPHTHALE	NE	2	10	2	1.00	N/A	U
2-METHYLNAPHTHALE	NE	0.09	10	0.09	1.00	N/A	<u>u</u>
2-NITROANILINE		2	48	2	1.00	N/A	U
3-NITROANILINE		2	48	2	1.00	N/A	<u> </u>
3,3'-DICHLOROBENZ	IDINE	9	19	9	1.00	N/A	U
4-BROMOPHENYL PHE	NYL ETHER	2	10	2	1.00	N/A	U
4-CHLOROANILINE		4	19	4	1.00	N/A	U
4-CHLOROPHENYL PH	ENYL ETHER	2	10	2	1.00	N/A	U
4-NITROANILINE		2	48	2	1.00	N/A	U
ACENAPHTHYLENE		0.09	10	0.09	1.00	N/A	U
ACENAPHTHENE		0.1	10	0.1	1.00	N/A	U
ANTHRACENE		0.1	10	0.1	1.00	N/A	U
BENZO(a)ANTHRACEN		0.2	10	0.2	1.00	N/A	U
BENZO(a)PYRENE	······································	0.09	10	0.09	1.00	N/A	U
BENZO(k)FLUORANTH	IENE	0.1	10	0.1	1.00	N/A	U
BENZO(b)FLUORANTH	IENE	0.2	10	0.2	1.00	N/A	U
BENZO(g,h,i)PERY	LENE	0.1	10	0.1	1.00	N/A	U
BENZYL ALCOHOL		2	19	2	1.00	N/A	U
bis(2-CHLOROETHO	XY) METHANE	2	10	2	1.00	N/A	U
bis(2-CHLOROETHY	L) ETHER (2-CHLOROETHYL ETH	E 1	10	1	1.00	N/A	U
bis(2-CHLOROISOP		2	10	2	1.00	N/A	U
bis(2-ETHYLHEXYL		2	10	2	1.00	N/A	U
BENZYL BUTYL PHT		2	10	2	1.00	N/A	υ
CHRYSENE		0.2	10	0.2	1.00	N/A	U

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

2,4-DIMETHYLPHENOL       1       10       1       1.00       N/A       U         2,4-DINITROPHENOL       10       10       1       1.00       N/A       U         2,4-DINITROPHENOL       10       48       10       1.00       N/A       U         2-CHLOROPHENOL       10       48       10       1.00       N/A       U         2-CHLOROPHENOL       1       10       1       1.00       N/A       U         2-CHLOROPHENOL       1       10       1       1.00       N/A       U         2-METHYLPHENOL (o-CRESOL)       2       10       2       1.00       N/A       U         2-NITROPHENOL       1       10       1       1.00       N/A       U         4,6-DINITRO-2-METHYLPHENOL       9       48       9       1.00       N/A       U         4-CHLORO-3-METHYLPHENOL       2       19       2       1.00       N/A       U	Analytic	al Method: <u>8270-A98</u>	Preparatory Me	thod: <u>SW3510</u>		AAB #: <u>A682</u>	1680	
1 Solids:         Initial Calibration 10: ASI0001637           Date         Date Prepared: 26-Jun.2005         Date Analyse: 28-Jun.2005           Concentration Units (Ug/L or mg/kg dry weight):         Ug/L           Analyse         MOL         RL         Concentration         Ditting         Dunit (Ug/L or mg/kg dry weight):           Di-n-OCTVL PSTALLATE         Analyse         MOL         RL         Concentration         Ditting         Dunit (Ug/L or mg/kg dry weight):           Di-n-OCTVL PSTALLATE         Analyse         MOL         RL         Concentration         Ditting         Dunit (Ug/L or mg/kg dry weight):           Di-n-OCTVL PSTALLATE         0.1         100         0.1         1.00         N/A         U           DISERZORUMA         0.1         100         0.1         1.00         N/A         U           DIMERZORUMA         0.1         1.00         N/A         U           REXACHURGRORUMA         0		Lab Name: STL Buffalo			Contr	act #:		
Date         Sectived:         21.111-0200         Date Prepared:         23.111-0200         Date Inserver:         24.111-0200           Concentration Units (ug/L or mg/kg dry veright):         Lig/L           D1-n-07UV, PSTHALATE         3         10         3         1.00         N/A         U           D1-n-07UV, PSTHALATE         2         10         2.1         1.00         N/A         U           D1-n-07UV, PSTHALATE         2         10         2.1         1.00         N/A         U           D1BER/2GLARAM         0.1         100         0.1         1.00         N/A         U           D1BER/2GLARAM         0.1         10         0.1         1.00         N/A         U           D10EREXCE/LEAN         0.1         10         2.0         N/A         U           D10EREXCE/LEAN         0.1         100         2.00         N/A         U           D10EREXCE/LEAN         0.1         100         0.01         1.00         N/A         U           PLUDERE         0.1         100         0.1         1.00         N/A         U           INCACALORORENEX         2         100         0.1         1.00         N/A         U	Field	Sample ID: <u>TF3M119R12OA</u>	Lab Sampl	e ID: <u>A6710204</u>	M	atrix: <u>WATE</u>	R	
Concentration Units (ug/L or mg/kg dry weight): Ug/L           Analyte         MDL         RL         Concentration         Dilution         Confirm         Qualifier           D1-n-BUTL_PHTRALATE         2         10         2         1.00         M/A         U           D1-n-DUTL_PHTRALATE         2         10         2         1.00         M/A         U           D1EREZOFULA PHTRALATE         2         10         2         1.00         M/A         U           D1EREZOFULA PHTRALATE         2         10         2         1.00         M/A         U           D1EREZOFULAN         0.1         100         0.1         1.00         M/A         U           D1EREXOFULAN         0.1         100         0.1         1.00         M/A         U           D1ENTERT PHTRALATE         2         100         2         1.00         M/A         U           PLORATINENE         0.1         100         0.1         1.00         M/A         U           PLORATINENE         0.1         100         0.1         1.00         M/A         U           PLORATINENE         0.1         100         0.1         1.00         M/A         U		% Solids:	Initial Calibratio	n 1D: <u>A61000163</u>	<u>17</u>			
Analyte         MDL         RL         Concentration         Dition         Confirm         Qualifier           D1-n-BUTV_PHINALATE         3         100         3         1.00         N/A         U           D1-n-OCTV_PHINALATE         2         100         2         1.00         N/A         U           D1BERZCP, bhantmaceme         0.1         100         0.1         1.00         N/A         U           D1BERZCP, bhantmaceme         0.1         100         0.1         1.00         N/A         U           D1EREZCP, bhantmaceme         0.1         100         0.1         1.00         N/A         U           D1EREZCP, brantmaceme         0.1         100         0.1         1.00         N/A         U           D1ERETME         2         100         2         1.00         N/A         U           UREACH CROBERSE         0.1         100         0.1         1.00         N/A         U           HEXACH CROBERSENE         0.1         100         0.1         1.00         N/A         U           HEXACH CROBERSENE         0.1         100         0.1         1.00         N/A         U           HEXACH CROBERSENE         0.1	Date	Received: <u>21-Jun-2006</u>	Date Prep	ared: <u>26-Jun-20</u>	106 Date Ana	lyzed: <u>28-</u> J	<u>un-2006</u>	
D1BUTVL PMTRALATE         3         10         3         1.00         N/A         U           D1OCTVL PMTRALATE         2         10         3         1.00         N/A         U           D1OCTVL PMTRALATE         2         10         2.1.00         N/A         U           D1BERZGLADAM         0.1         10         0.1         1.00         N/A         U           D1ERMENDERAM         0.1         10         0.1         1.00         N/A         U           DIERMENDERAM         0.1         10         0.1         1.00         N/A         U           DIERMENDERAM         0.1         10         0.6         1.00         N/A         U           DIMETMENE         2         10         2         1.00         N/A         U           PLUDBAME         0.1         10         0.6         1.00         N/A         U           PLUDBAME         2         10         2         1.00         N/A         U           PLUDBAME         0.1         10         0.1         1.00         N/A         U           PLUDBAME         2         10         2         1.00         N/A         U		Concentration Units (ug/)	. or mg∕kg dry wei	ght): <u>UG/L</u>				
D1OCTVL         D1-AL         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D         D <thd< th="">         D         D</thd<>		Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
DIERNZC4, h3ANTHRACEME         D.1         D.0         D.1         D.0         N/A         U           DIERNZC6, h3ANTHRACEME         0.1         10         0.1         1.00         N/A         U           DIERNZCFURAN         0.1         10         0.1         1.00         N/A         U           DIERNZCFURAN         0.1         10         0.1         1.00         N/A         U           DIERNYL PHTHALATE         2         10         2         1.00         N/A         U           PLUDRAUTHENE         0.1         10         0.6         1.00         N/A         U           PLUDRAUTHENE         0.1         10         0.1         1.00         N/A         U           MEXACHLOROBENZENE         0.1         100         0.1         1.00         N/A         U           MEXACHLOROBENZENE         0.1         100         2         1.00         N/A         U           NEXACHLOROBENZENE         0.1         100         1.00         N/A         U           IBOENCI (2, 2, 3-c, d)PYRENE         0.1         100         1.00         N/A         U           IBOENCI (2, 2, 3-c, d)PYRENE         0.1         100         1.00         <	DI-N-BUTYL PHTHALA	TE	3	10	3	1.00	N/A	U
DIERNZOFURAN         0.1         10         0.1         100         N/A         0           DIERNZOFURAN         0.1         10         0.1         1.00         N/A         U           DIERNZOFURAN         2         10         2         1.00         N/A         U           DIMETNYL PHTHALATE         2         10         2         1.00         N/A         U           FLUDRANTWENE         0.1         10         0.6         1.00         N/A         U           FLUDRANTWENE         0.1         10         0.6         1.00         N/A         U           FLUDRANTWENE         0.1         10         0.1         1.00         N/A         U           HEXACHLOROBENZENE         2         10         2         1.00         N/A         U           HEXACHLOROBENZENE         3         10         3         1.00         N/A         U           INDENOCI, 2.3-c, dy YRENE         0.1         10         0.1         1.00         N/A         U           ISOPHONAE         1         10         1         1.00         N/A         U           N'NTROBENZO IPHENTLAMINE         3         10         3         1.00	DI-n-OCTYL PHTHALA	TE	2	10	2	1.00	N/A	U
DIETHYL PHTHALATE         2         10         2         1.00         N/A         0           DIETHYL PHTHALATE         2         10         2         1.00         N/A         U           DIMETHYL PHTHALATE         2         10         2         1.00         N/A         U           FLUGRANTHENE         0.1         10         0.6         1.00         N/A         U           FLUGRANTHENE         0.1         10         0.1         1.00         N/A         U           HEXACHLORGBENZENE         2         10         2         1.00         N/A         U           MEXACHLORGBENZENE         2         10         2         1.00         N/A         U           MEXACHLORGBENZENE         3         10         3         1.00         N/A         U           MEXACHLORGBENZENE         0.1         10         0.1         1.00         N/A         U           INCRENDESTAINE         3         10         3         1.00         N/A         U           INSORDIVENTLAINE         1         10         1         1.00         N/A         U           NATTROSCO IPHENTLAINE         1         10         1         1.00	DIBENZ(a,h)ANTHRAC	ENE	0.1	10	0.1	1.00	N/A	U
DIMETHYL PHTHALATE         2         1.0         N/A         U           FLUORANTHENE         2         10         2         1.00         N/A         U           FLUORANTHENE         0.1         10         0.6         1.00         N/A         U           FLUORANTHENE         0.1         10         0.6         1.00         N/A         U           FLUORENE         0.1         10         0.1         1.00         N/A         U           HEXACHLOROBENZENE         2         10         2         1.00         N/A         U           NEXACHLOROBENZENE         3         10         3         1.00         N/A         U           NEXACHLOROBENZENE         3         10         3         1.00         N/A         U           INDENO(1,2,3-c,d)PYRENE         0.1         10         1.00         N/A         U           INSPHORONE         1         10         1         1.00         N/A         U           N-NITROSOD PHENYLANINE         1         10         1         1.00         N/A         U           NHTROSENZENE         0.1         10         0.1         1.00         N/A         U	DIBENZOFURAN	· · · · · · · · · · · · · · · · · · ·	0.1	10	0.1	1.00	N/A	U
FLIORANTHENE         I.O.         I.O.         I.O.         I.O.         I.O.         I.O.         II.O.         II.O. <t< td=""><td>DIETHYL PHTHALATE</td><td>, , , , , , , , , , , , , , , , , , ,</td><td>2</td><td>10</td><td>2</td><td>1.00</td><td>N/A</td><td></td></t<>	DIETHYL PHTHALATE	, , , , , , , , , , , , , , , , , , ,	2	10	2	1.00	N/A	
FLUORENE         I.O.         I.O.         I.O.         I.O.         I.O.         I.O.         II.O.         III.O.         III.O. <thiii.o.< <="" td=""><td>DIMETHYL PHTHALATE</td><td></td><td>2</td><td>ĩO</td><td>2</td><td>1.00</td><td>N/A</td><td>U</td></thiii.o.<>	DIMETHYL PHTHALATE		2	ĩO	2	1.00	N/A	U
FLUORENE         0.1         10         0.1         1.00         N/A         U           HEXACHLOROBENZENE         2         10         2         1.00         N/A         U           HEXACHLOROBENZENE         4         10         4         1.00         N/A         U           HEXACHLOROBENZENE         4         10         4         1.00         N/A         U           HEXACHLOROBENZENE         3         10         3         1.00         N/A         U           INDENO(1,2,3-c,d)PYRENE         0.1         10         0.1         1.00         N/A         U           INDENO(1,2,3-c,d)PYRENE         0.1         10         0.1         1.00         N/A         U           ISOPHORONE         1         10         1         1.00         N/A         U           N-NITROSCOLPHENYLAMINE         1         10         1         1.00         N/A         U           NAPHTHALENE         0.1         100         0.1         1.00         N/A         U           PYRENE         0.1         100         0.1         1.00         N/A         U           2,4,5-TRICRLOROPHENOL         2         48         2         1.00 </td <td>FLUORANTHENE</td> <td><del></del></td> <td>0.1</td> <td>10</td> <td>0.6</td> <td>1.00</td> <td>N/A</td> <td>F</td>	FLUORANTHENE	<del></del>	0.1	10	0.6	1.00	N/A	F
НЕХАСНІОКОВИТАЛІЕНЕ         1.00         N/A         0           НЕХАСНІОКОВИТАЛІЕНЕ         4         10         4         1.00         N/A         0           NEXACHLOROBUTADIENE         3         10         3         1.00         N/A         0           INDENO(1,2,3-c,d)PYRENE         0.1         10         0.1         1.00         N/A         0           INDENO(1,2,3-c,d)PYRENE         0.1         10         0.1         1.00         N/A         0           INDENO(1,2,3-c,d)PYRENE         0.1         10         1.00         N/A         0           N-NITROSCOIPHENTLAHINE         3         10         3         1.00         N/A         0           N-NITROSCOIPHENTLAHINE         1         10         1         1.00         N/A         0           N-NITROSCOIPHENTLAHINE         0.1         100         0.1         1.00         N/A         0           NAPHTHALENE         0.1         100         0.1         1.00         N/A         0           NITROSCOIPHENTLAHINE         0.1         100         1.00         N/A         0           2,4,5-TRICHLOROPHENOL         2         10         0.7         1.00         N/A         0 </td <td>FLUORENE</td> <td>and a second and a second and a second /td> <td>0.1</td> <td>10</td> <td>0.1</td> <td>1.00</td> <td>N/A</td> <td>U</td>	FLUORENE	and a second and a second and a second	0.1	10	0.1	1.00	N/A	U
HEXACHLOROETHANE         I.O.         N.A.         U.U.           INDENOLIZA.C.J.PYRENE         0.1         10         3         1.00         N/A         U           INDENOLIZA.C.J.PYRENE         0.1         10         0.1         1.00         N/A         U           INDENOLIZA.C.J.PYRENE         0.1         10         0.1         1.00         N/A         U           ISOPRONE         1         10         1.00         N/A         U           N-NITROSCOIPHENYLAMINE         3         100         3         1.00         N/A         U           N-NITROSCOIP-PROPYLAMINE         1         10         1         1.00         N/A         U           N-NITROSCOIP-PROPYLAMINE         0.1         100         0.1         1.00         N/A         U           NAPHTHALENE         0.1         100         0.1         1.00         N/A         U           PHENANTHRENE         0.2         10         0.7         1.00         N/A         U           2,4,5-TRICHLOROPHENOL         2         10         2         1.00         N/A         U           2,4-01CHLOROPHENOL         1         10         1         1.00         N/A         U	HEXACHLOROBENZENE	······································	2	10	2	1.00	N/A	U
INDENO(1,2,3-c,d)PYRENE         O.1         I.O.         I.O.         I.O.         II.O.         II.O.         II.O.         III.O.         IIII.O.         IIII.O.         IIII.O.         IIII.O.         IIII.O.         IIII.O.         IIII.O.         IIII.O.         IIII.O.         IIIII.O.         IIIIII.O.         IIIIIIII.O.         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	HEXACHLOROBUTADIEN	g	4	10	4	1.00	N/A	U
ISOPHORONE         I.O.         I.O.         I.O.         I.O.         II.O.         II.O.         II.O.         III.O.	HEXACHLOROETHANE		3	10	3	1.00	N/A	U
N-NITROSOD IPHENYLAMINE         N/A         U           N-NITROSOD IPHENYLAMINE         3         10         3         1.00         N/A         U           N-NITROSOD IPHENYLAMINE         1         10         3         1.00         N/A         U           N-NITROSOD I-n-PRO         YLAMINE         1         10         1         1.00         N/A         U           NAPHTHALENE         0.1         10         0.1         1.00         N/A         U           NITROBENZENE         1         10         1         1.00         N/A         U           PHENANTHRENE         0.1         10         0.1         1.00         N/A         U           PYRENE         0.2         10         0.7         1.00         N/A         U           2,4,5-TRI CHLOROPHENOL         2         48         2         1.00         N/A         U           2,4,6-TRI CHLOROPHENOL         2         10         2         1.00         N/A         U           2,4-DINITROPHENOL         1         10         1         1.00         N/A         U           2,4-DINITROPHENOL         1         10         1         1.00         N/A         U <td>INDENO(1,2,3-c,d)P</td> <td>YRENE</td> <td>0.1</td> <td>10</td> <td>0.1</td> <td>1.00</td> <td>N/A</td> <td>- U</td>	INDENO(1,2,3-c,d)P	YRENE	0.1	10	0.1	1.00	N/A	- U
N-NITROSODI-n-PROPYLAMINE         1         10         1         100         N/A         U           NAPHTHALENE         0.1         10         1         1.00         N/A         U           NAPHTHALENE         0.1         10         0.1         1.00         N/A         U           NITROBENZENE         1         10         1.10         N/A         U           PHENANTHRENE         0.1         10         1.00         N/A         U           PYRENE         0.2         10         0.1         1.00         N/A         U           2,4,5-TRICHLOROPHENOL         2         10         0.7         1.00         N/A         U           2,4,6-TRICHLOROPHENOL         2         10         2.48         2         1.00         N/A         U           2,4-0ICHLOROPHENOL         2         10         2         1.00         N/A         U           2,4-0ICHLOROPHENOL         2         10         2         1.00         N/A         U           2,4-DINITROPHENOL         1         10         1         1.00         N/A         U           2,4-DINITROPHENOL         1         10         1         1.00         N/A	ISOPHORONE	· · · · · · · · · · · · · · · · · · ·	1	10	1	1.00	N/A	U
NAPHTHALENE         I. I	N-NITROSODIPHENYLA	MINE	3	10	3	1.00	N/A	U
NITROBENZENE         I.100         N/A         U           NITROBENZENE         1         10         1         1.00         N/A         U           PHENANTHRENE         0.1         10         0.1         1.00         N/A         U           PYRENE         0.2         0.1         10         0.1         1.00         N/A         U           2,4,5-TRICHLOROPHENOL         2         10         0.7         1.00         N/A         U           2,4,5-TRICHLOROPHENOL         2         10         0.7         1.00         N/A         U           2,4,5-TRICHLOROPHENOL         2         10         2         1.00         N/A         U           2,4,5-TRICHLOROPHENOL         2         10         2         1.00         N/A         U           2,4-0INTROPHENOL         1         10         1         1.00         N/A         U           2,4-0INTROPHENOL         10         48         10         1.00         N/A         U           2,4-0INTROPHENOL         2         10         2         1.00         N/A         U           2,4-0INTROPHENOL         1         1.00         N/A         U         U	N-NITROSODI-n-PROP	YLAMINE	1	10	1	1.00	N/A	U
PHENANTHRENE         0.1         1.0         N/A         U           PYENNE         0.1         10         0.1         1.00         N/A         U           PYENNE         0.2         10         0.7         1.00         N/A         U           2,4,5-TRICHLOROPHENOL         2         10         0.7         1.00         N/A         U           2,4,5-TRICHLOROPHENOL         2         10         0.7         1.00         N/A         U           2,4,5-TRICHLOROPHENOL         2         10         2         1.00         N/A         U           2,4,6-TRICHLOROPHENOL         2         10         2         1.00         N/A         U           2,4-DICHLOROPHENOL         2         10         2         1.00         N/A         U           2,4-DINETHYLPHENOL         1         10         1         1.00         N/A         U           2,4-DINITROPHENOL         11         10         1         1.00         N/A         U           2,4-DINITROPHENOL         2         10         2         1.00         N/A         U           2-NITROPHENOL         1         10         1         1.00         N/A         U	NAPHTHALENE		0.1	10	0.1	1.00	N/A	U
PYRENE         Image: Construction of the construction	NITROBENZENE		1	10	1	1.00	N/A	- u
PYRENE         Image: Marcine	PHENANTHRENE		0.1	10	0.1	1.00	N/A	
2,4,5-TRICHLOROPHENOL       2       .48       2       1.00       N/A       U         2,4,6-TRICHLOROPHENOL       2       10       2       1.00       N/A       U         2,4,6-TRICHLOROPHENOL       2       10       2       1.00       N/A       U         2,4-DICHLOROPHENOL       2       10       2       1.00       N/A       U         2,4-DICHLOROPHENOL       2       10       2       1.00       N/A       U         2,4-DICHLOROPHENOL       1       10       1       0       N/A       U         2,4-DINITROPHENOL       11       10       1       0       N/A       U         2,4-DINITROPHENOL       10       48       10       1.00       N/A       U         2-CHLOROPHENOL       1       10       1       0       N/A       U         2-METHYLPHENOL (o-       CRESOL)       2       10       2       1.00       N/A       U         2-NITROPHENOL       1       10       1       1.00       N/A       U         4,6-DINITRO-2-METHYLPHENOL       2       19       2       1.00       N/A       U         4-CHLORO-3-METHYLPHENOL       2       19<	PYRENE		0.2	10	0.7			F
2,4,6-TRICHLOROPHE       NOL       2       10       2       1.00       N/A       U         2,4-DICHLOROPHENOL       2       10       2       1.00       N/A       U         2,4-DICHLOROPHENOL       2       10       2       1.00       N/A       U         2,4-DIMETHYLPHENOL       11       10       1       1.00       N/A       U         2,4-DIMETHYLPHENOL       11       10       1       1.00       N/A       U         2,4-DINITROPHENOL       10       48       10       1.00       N/A       U         2,4-DINITROPHENOL       1       10       1       1.00       N/A       U         2,4-DINITROPHENOL       11       10       1       0       N/A       U         2,4-DINITROPHENOL       2       10       2       1.00       N/A       U         2-CHLOROPHENOL       2       10       1       1.00       N/A       U         2-METHYLPHENOL       2       10       1       1.00       N/A       U         2-NITROPHENOL       1       10       1       1.00       N/A       U         4,6-DINITRO-2-METHYLPHENOL       2       19       2<	2,4,5-TRICHLOROPHEN	IOL.	2	. 48	2	1.00		
2,4-DICHLOROPHENOL       2       10       2       1.00       N/A       U         2,4-DIMETHYLPHENOL       1       10       1       1.00       N/A       U         2,4-DINITROPHENOL       10       48       10       1.00       N/A       U         2,4-DINITROPHENOL       10       48       10       1.00       N/A       U         2,4-DINITROPHENOL       10       1       10       1.00       N/A       U         2-CHLOROPHENOL       1       10       1       1.00       N/A       U         2-CHLOROPHENOL       2       10       2       1.00       N/A       U         2-METHYLPHENOL (o-CRESOL)       2       10       2       1.00       N/A       U         2-NITROPHENOL       1       10       1       1.00       N/A       U         4,6-DINITRO-2-METHYLPHENOL       9       48       9       1.00       N/A       U         4-CHLORO-3-METHYLPHENOL       2       19       2       1.00       N/A       U	2,4,6-TRICHLOROPHEN	101_	2	10	2			
2,4-DIMETHYLPHENOL       1       10       1       1.00       N/A       U         2,4-DINITROPHENOL       10       48       10       1.00       N/A       U         2,4-DINITROPHENOL       10       48       10       1.00       N/A       U         2-CHLOROPHENOL       11       10       1       1.00       N/A       U         2-CHLOROPHENOL       1       10       1       1.00       N/A       U         2-METHYLPHENOL (o-CRESOL)       2       10       2       1.00       N/A       U         2-NITROPHENOL       1       10       1       1.00       N/A       U         4,6-DINITRO-2-METHYLPHENOL       9       48       9       1.00       N/A       U         4-CHLORO-3-METHYLPHENOL       2       19       2       1.00       N/A       U	2,4-DICHLOROPHENOL		2	10	2	1.00		
2,4-DINITROPHENOL       10       48       10       1.00       N/A       U         2-CHLOROPHENOL       1       10       1       1.00       N/A       U         2-CHLOROPHENOL       1       10       1       1.00       N/A       U         2-METHYLPHENOL (o-CRESOL)       2       10       2       1.00       N/A       U         2-NITROPHENOL       1       10       1       1.00       N/A       U         4-G-DINITRO-2-METHYLPHENOL       9       48       9       1.00       N/A       U         4-CHLORO-3-METHYLPHENOL       2       19       2       1.00       N/A       U	2,4-DIMETHYLPHENOL		1	10	1			
2-CHLOROPHENOL       1       10       1       1.00       N/A       U         2-METHYLPHENOL (o-CRESOL)       2       10       2       1.00       N/A       U         2-NITROPHENOL       1       10       1       1.00       N/A       U         2-NITROPHENOL       1       10       1       1.00       N/A       U         4-G-DINITRO-2-METHYLPHENOL       9       48       9       1.00       N/A       U         4-CHLORO-3-METHYLPHENOL       2       19       2       1.00       N/A       U	2,4-DINITROPHENOL		10	48	10			
2-METHYLPHENOL (o- CRESOL)       2       10       2       1.00       N/A       U         2-NITROPHENOL       1       10       1       1.00       N/A       U         4,6-DINITRO-2-METHYLPHENOL       9       48       9       1.00       N/A       U         4-CHLORO-3-METHYLPHENOL       2       19       2       1.00       N/A       U	2-CHLOROPHENOL		1					
2-NITROPHENOL         1         10         1         1.00         N/A         U           4,6-DINITRO-2-METHYLPHENOL         9         48         9         1.00         N/A         U           4-CHLORO-3-METHYLPHENOL         2         19         2         1.00         N/A         U	2-METHYLPHENOL (0-C	RESOL)	2	10	2			
4,6-DINITRO-2-METHYLPHENOL     9     48     9     1.00     N/A     U       4-CHLORO-3-METHYLPHENOL     2     19     2     1.00     N/A     U	2-NITROPHENOL		1	10				
4-CHLORO-3-METHYLPHENOL 2 19 2 1.00 N/A U	4,6-DINITRO-2-METHY	LPHENOL	9					
	4-CHLORO-3-METHYLPH	ENOL	2					
	4-METHYLPHENOL (p-C	RESOL)	3	48	3	1.00	N/A	U

Analytic	al Method:	<u>8270-A98</u>	Preparatory Method:	<u>sw3510</u>	AAB #:	<u>A6B21680</u>
	Lab Name:	<u>STL Buffalo</u>			Contract #:	
Field	Sample ID:	TF3M119R12OA	Lab Sample ID:	<u>A6710204</u>	Matrix:	WATER
	% Solids:		Initial Calibration ID:	<u>A610001637</u>		
Date	Received:	<u>21-Jun-2006</u>	Date Prepared:	<u> 26-Jun-2006</u>	Date Analyzed:	<u>28-Jun-2006</u>
	Concentr	ation Units (ug,	/L or mg/kg dry weight):	UG/L		

	Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
4-NITROPHENOL	<u> </u>	4	48	4	1.00	N/A	U
BENZOIC ACID		30	97	30	1.00	N/A	U
PENTACHLOROPHENOL		10	48	10	1.00	N/A	U
PHENOL		3	10	3	1.00	N/A	U

	Surrogate	Recovery	Control Limits Qualifie
n ngan sinan s	NITROBENZENE-D5	57	41 - 120
	2-FLUOROBIPHENYL	61	48 - 120
	TERPHENYL-D14	62	51 - 135
	PHENOL-D5	22	20 - 120
	2-FLUOROPHENOL	31	20 - 120
	2,4,6-TRIBROMOPHENOL	68	42 - 124

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Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-DICHLOROBENZENE-d4	106650	51959 - 207836	
NAPHTHALENE-d8	461593	230752 - 923008	
ACENAPHTHENE-d10	252977	122046 - 488184	
PHENANTHRENE-d10	457702	200494 - 801974	
CHRYSENE-d12	429349	193477 - 773908	
PERYLENE-d12	400056	196322 - 785286	

Comments:

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#### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8270-A98</u>	Preparatory Method:	<u>sw3510</u>	AAB #:	<u>A6B21680</u>
Lab Name:	STL Buffalo			Contract #:	
Field Sample ID:	TF3M121R120A	Lab Sample ID:	<u>A6710205</u>	Matrix:	WATER
% Solids:		Initial Calibration ID:	<u>A610001637</u>		
Date Received:	21-Jun-2006	Date Prepared:	<u>26-Jun-2006</u>	Date Analyzed:	<u>28-Jun-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
1,2,4-TRICHLOROBENZENE	2	10	2	1.00	N/A	U
1,2-DICHLOROBENZENE	2	10	2	1.00	N/A	U
1,3-DICHLOROBENZENE	2	10	2	1.00	N/A	U
1,4-DICHLOROBENZENE	2	10	2	1.00	N/A	U
2,4-DINITROTOLUENE	2	10	2	1.00	N/A	U
2,6-DINITROTOLUENE	2	10	2	1.00	N/A	U
2-CHLORONAPHTHALENE	2	10	2	1.00	N/A	U
2-METHYLNAPHTHALENE	0.09	10	0.09	1.00	N/A	U
2-NITROANILINE	2	50	2	1.00	N/A	U
3-NITROANILINE	2	50	2	1.00	N/A	U
3,3'-DICHLOROBENZIDINE	10	20	10	1.00	N/A	υ
4-BROMOPHENYL PHENYL ETHER	2	10	2	1.00	N/A	U
4-CHLORDANILINE	4	20	4	1.00	N/A	U
4-CHLOROPHENYL PHENYL ETHER	2	10	2	1.00	N/A	U
4-NITROANILINE	2	50	2	1.00	N/A	U
ACENAPHTHYLENE	0.09	10	0.09	1.00	N/A	U
ACENAPHTHENE	0.1	10	0.1	1.00	N/A	U
ANTHRACENE	0.1	10	0.1	1.00	N/A	U
BENZO(a)ANTHRACENE	0.2	10	0.2	1.00	N/A	U
BENZO(a)PYRENE	0.09	10	0.09	1.00	N/A	U
BENZO(k)FLUORANTHENE	0.1	10	0.1	1.00	N/A	U
BEN20(b)FLUORANTHENE	0.2	10	0.2	1.00	N/A	U
BENZO(g,h,i)PERYLENE	0.1	10	0.1	1.00	N/A	U
BENZYL ALCOHOL	2	20	2	1.00	N/A	υ
bis(2-CHLOROETHOXY) METHANE	2	10	2	1.00	N/A	U
bis(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHE	1	10	1	1.00	N/A	U
bis(2-CHLOROISOPROPYL) ETHER	2	10	2	1.00	N/A	υ
bis(2-ETHYLHEXYL) PHTHALATE	2	10	2	1.00	N/A	U
BENZYL BUTYL PHTHALATE	2	10	2	1.00	N/A	U
CHRYSENE	0.2	10	0.2	1.00	N/A	U

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### AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	<u>8270-A98</u>	Preparatory Method:	<u>sw3510</u>	AAB #	A6B21680
Lab Name:	STL Buffalo			Contract #	
Field Sample ID:	TF3M121R120A	Lab Sample ID:	<u>A6710205</u>	Matrix	WATER
% Solids:		Initial Calibration ID:	<u>A610001637</u>		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>26-Jun-2006</u>	Date Analyzed	28-Jun-2006

Concentration Units (ug/L or mg/kg dry weight): UG/L\_\_\_\_

Analyte	MD L.	RL	Concentration	Dilution	Confirm	Qualifier
DI-n-BUTYL PHTHALATE	3	10	3	1.00	N/A	U
DI-n-OCTYL PHTHALATE	2	10	2	1.00	N/A	U
DIBENZ(a,h)ANTHRACENE	0.1	10	0.1	1.00	N/A	U
DIBENZOFURAN	0.1	10	0.1	1.00	N/A	U
DIETHYL PHTHALATE	2	10	2	1.00	N/A	U
DIMETHYL PHTHALATE	2	10	2	1.00	N/A	U
FLUORANTHENE	0.1	10	0.1	1.00	N/A	U
FLUORENE	0.1	10	0.1	1,00	N/A	U
HEXACHLOROBENZENE	2	10	2	1.00	N/A	U
HEXACHLOROBUTADIENE	4	10	4	1.00	N/A	υ
HEXACHLOROETHANE	3	10	3	1.00	N/A	U
INDENO(1,2,3-c,d)PYRENE	0.1	10	0.1	1.00	N/A	U
ISOPHORONE	1	10	1	1.00	N/A	U
N-NITROSODIPHENYLAMINE	3	10	3	1.00	N/A	υ
N-NITROSODI-n-PROPYLAMINE	1	10	1	1.00	N/A	U
NAPHTHALENE	0.1	10	0.1	1.00	N/A	U
NITROBENZENE	1	10	1	1.00	N/A	U
PHENANTHRENE	0.1	10	0.1	1.00	N/A	U
PYRENE	0.2	10	0.2	1.00	N/A	U
2,4,5-TRICHLOROPHENOL	2	50	2	1_00	N/A	U
2,4,6-TRICHLOROPHENOL	2	10	2	1.00	N/A	U
2,4-DICHLOROPHENOL	2	10	2	1.00	N/A	U
2,4-DIMETHYLPHENOL	1	10	1	1.00	N/A	U
2,4-DINITROPHENOL	10	50	10	1.00	N/A	U
2-CHLOROPHENOL	1	10	1	1.00	N/A	υ
2-METHYLPHENOL (0-CRESOL)	2	10	2	1.00	N/A	U
2-NITROPHENOL	1	10	1	1.00	N/A	U
4,6-DINITRO-2-METHYLPHENOL	9	50	9	1.00	N/A	U
4-CHLORO-3-METHYLPHENOL	2	20	2	1.00	N/A	U
4-METHYLPHENOL (p-CRESOL)	3	\$0	3	1.00	N/A	U

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# 137/213

# AFCEE ORGANIC ANALYSES DATA SHEET 2 RESULTS

Analytical Method:	8270-A98	Preparatory Method:	<u>sw3510</u>	AAB #:	<u>A6B21680</u>
Lab Name:	STL Buffalo			Contract #:	
Field Sample ID:	TF3M121R120A	Lab Sample ID:	<u>A6710205</u>	Matrix:	WATER
% Solids:	In	itial Calibration ID:	A610001637		
Date Received:	<u>21-Jun-2006</u>	Date Prepared:	<u>26- Jun-2006</u>	Date Analyzed:	<u>28-Jun-2006</u>

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
4-NITROPHENOL	4	50	4	1.00	N/A	U
BENZOIC ACID	31	99	31	1.00	N/A	U
PENTACHLOROPHENOL	11	50	11	1.00	N/A	U
PHENOL	3	10	3	1.00	N/A	ម

Surrogate	Recovery	Control Limits	Qualifier
NITROBENZENE-D5	68	41 - 120	
2-FLUOROBIPHENYL	78	48 - 120	
TERPHENYL-D14	69	51 - 135	
PHENOL-D5	22	20 - 120	
2-FLUDROPHENOL	31	20 - 120	
2,4,6-TRIBROMOPHENOL	65	42 - 124	

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Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-DICHLOROBENZENE-d4	100841	51959 - 207836	
NAPHTHALENE-d8	440166	230752 - 923008	
ACENAPHTHENE-d10	234763	122046 - 488184	
PHENANTHRENE-d10	433400	200494 - 801974	
CHRYSENE-d12	395302	193477 - 773908	
PERYLENE-d12	373532	196322 - 785286	

Comments:

# AFCEE WET CHEM ANALYSES DATA PACKAGE

Analytical Method: 310.2-A98

Lab Name: STL Buffalo

AAB #: A6B21677

Contract #: \_\_\_\_\_

Base/Command: <u>Griffiss Airforce Base</u>

Prime Contractor: Fanning, Phillips & M

Field Sample ID

Lab Sample ID

062006OE

<u>A6710213</u>

Comments:

See Case Narrative

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:	Abol
Date:	7/18/06

Name: <u>John Schove</u>

Title: Operations Manager

Analytical Method: <u>310.</u>	2-498			AAB #: /	46B21677	
Lab Name: <u>STL</u>	Buffalo			Contract #: _		
Field Sample ID: 0620	0060E	Lab Sample ID:	<u>A6710213</u>	Matrix: <u>N</u>	JATER	
% Solids: <u>0</u> .	.0					
Date Received: <u>21-</u> J	<u>Jun-2006</u>			Date Analyzed: 2	23-Jun-2006	
Concentration Units: <u>MG/L</u>	<u> </u>					
Analyte		MDL	RL	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS CACO	3)	2.7	5.0	2.7	1.00	U
Comments:		*********				*

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# AFCEE WET CHEM ANALYSES DATA PACKAGE

Analytical Method:	<u>310.2-A98</u>	AAB #:	<u>A6B21856</u>
Lab Name:	<u>STL Buffalo</u>	Contract #:	
Base/Command:	Griffiss Airforce Base	Prime Contractor:	<u>Fanning, Phillips &amp; M</u>

Field Sample ID

TF3CE313OA TF3M11614OA TF3M11713OA TF3M119R12OA TF3M121R12OA TF3M12314OA TF3M12614OA TF3M12713OA TF3M12814OA TF3M13316OC TF3M13316OC TF3M2114OA Lab Sample ID

A6710201 A6710202 A6710203 A6710204 A6710205 A6710206 A6710207 A6710208 A6710209 A6710209 A6710210 A6710210FD A6710211

Comments:

See Case Narrative

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Date:

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Name: John Schove

Title: Operations Manager

Analytical Method:	310.2-A98				AAB #:	A6B21856	
Lab Name:	<u>STL Buffalo</u>				Contract #:		-
Field Sample ID:	TF3CE3130A	Lab Sample	ID: <u>A6710201</u>		Matrix:	WATER	
% Solids:	0.0						
Date Received:	<u>21-Jun-2006</u>				Date Analyzed:	27-Jun-2006	
Concentration Units:	MG/L						
Analyte		MDL		RF	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS	CACO3)	5.3		10	192	2.00	1
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Comments:

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Analytical Method:	<u>310.2-A98</u>			AAB #: <u>4</u>	6 <u>821856</u>	
Lab Name:	<u>STL Buffalo</u>			Contract #: _		
Field Sample ID:	TF3M116140A	Lab Sample I	D: <u>A6710202</u>	Matrix: y	ATER	
% Solids:	<u>0.Ò</u>					
Date Received:	<u>21-Jun-2006</u>			Date Analyzed:	27-Jun-2006	
Concentration Units:	MG/L					
Analyte		MDL	RL	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS	CAC03)	5.3	10	178	2.00	
Comments:						^

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Analytical Method:	<u>310.2-A98</u>			AAB #: <u>A</u>	6B21856	
Lab Name:	<u>STL Buffalo</u>			Contract #: _		_
Field Sample ID:	<u>TF3M117130A</u>	Lab Sample ID: <u>A</u>	6710203	Matrix: <u>W</u>	ATER	
% Solids:	0.0					
Date Received:	<u>21-Jun-2006</u>			Date Analyzed: 2	7-Jun-2006	
Concentration Units:	MG/L					
Analyte		MDL	RL	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS	CACO3)	8.0	15.0	224	3.00	
Comments:						NJK
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Analytical Method:	<u>310.2-A98</u> STL Buffalo			AAB #: <u>/</u> Contract #:		
Field Sample ID:		Lab Sample ID: A	6710204	Matrix:		-
% Solids: Date Received:	<u>21-Jun-2006</u>			Date Analyzed: 2	27-Jun-2006	
Concentration Units: Analyte	<u>MG/L</u>	MDL	RL	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS	CACO7 \	5.3	10	159	2.00	

Analytical Method: <u>310.</u>	.2-498			AAB #:	<u>A6B21856</u>	
Lab Name: <u>STL</u>	Buffalo			Contract #:		_
Field Sample ID: <u>TF3M</u>	1121R120A	Lab Sample ID	: <u>A6710205</u>	Matrix:	WATER	
% Solids: <u>0</u> .	.0					
Date Received: 21-J	lun-2006			Date Analyzed:	27-Jun-2006	
Concentration Units: <u>MG/L</u>	L					
Analyte		MDL	RL	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS CACO	)3)	8.0	15.0	203	3.00	
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Comments:

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Analytical Method: <u>310.2-A98</u>			AAB #: <u>A</u>	<u>6821856</u>	
Lab Name: <u>STL Buffalo</u>			Contract #: _		
Field Sample ID: <u>TF3M123140A</u>	Lab Sample ID: A6	710206	Matrix: <u>W</u>	ATER	
% Solids: <u>0.0</u>					
Date Received: <u>21-Jun-2006</u>			Date Analyzed: 2	7-Jun-2006	
Concentration Units: MG/L					
Analyte	MDL	RL	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS CACO3)	5.3	10	156	2.00	
Comments:					<u> </u>
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Analytical Method:	310.2-498			AAB #:	<u>A6B21856</u>	
Lab Name:	<u>STL Buffalo</u>			Contract #:		
Field Sample ID:	TF3M126140A	Lab Sample ID:	A6710207	Matrix:	WATER	
% Solids:	0.0					
Date Received:	<u>21 - Jun - 2006</u>			Date Analyzed:	27-Jun-2006	
Concentration Units:	MG/L					
Analyte		MDL	RL	Concentration	1 Dilution	Qualifier
ALKALINITY, TOTAL (AS	CAC03)	8.0	15.0	217	3.00	

Comments:

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Analytical Method:	<u>310.2-A98</u>			AAB #:	A6B21856	
Lab Name:	STL Buffalo			Contract #:		
Field Sample ID:	TF3M127130A	Lab Sample ID:	A6710208	Matrix:	WATER	
% Solids:	0.0					
Date Received:	<u>21-Jun-2006</u>			Date Analyzed:	27-Jun-2006	
Concentration Units:	MG/L					
Analyte		MDL	RL	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS	CACO3)	8.0	15.0	209	3.00	

Comments:

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Analytical Method:	310.2-A98_				AAB #:	A6B21856	
Lab Name:	STL Buffalo				Contract #:		
Field Sample ID:	TF3M128140A	Lab Sample	ID: <u>A67102</u>	09	Matrix:	WATER	
% Solids:	0.0						
Date Received:	<u>21-Jun-2006</u>				Date Analyzed:	<u>27-jun-2006</u>	
Concentration Units:	MG/L						
Analyte		MDL		RL	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS	CACO3)	10.6	,	20.0	332	4.00	
		.4					1

Comments:

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1 - 5 - 57				AAB #: <u>A</u>	6B21856	
Lap Name:	STL Buffalo			Contract #: _		
Field Sample ID:	TF3M133160A	Lab Sample ID: <u>A6</u>	710210	Matrix: <u>b</u>	ATER	
% Solids:	0.0					
Date Received:	<u>21-Jun-2006</u>			Date Analyzed: 2	7- Jun- 2006	1
Concentration Units:	MG/L					
Analyte		MDL	RL	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS	CACO3)	8.0	15.0	273	3.00	

Analytical Method: 310.2-A98			AAB #: <u>4</u>	6 <u>6821856</u>	
Lab Name: <u>STL Buffalo</u>			Contract #: _		_
Field Sample ID: TF3M133160C	Lab Sample ID: Ad	710210FD	Matrix: <u>L</u>	ATER	
% Solids: <u>0.0</u>					
Date Received: <u>21-Jun-2006</u>			Date Analyzed: 2	7-Jun-2006	
Concentration Units: MG/L					
Analyte	MDL	RL	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS CACO3)	8.0	15.0	250	3.00	
Comments -					

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# 203/213

#### AFCEE WET CHEM ANALYSES DATA SHEET 2 RESULTS

Anatycicat Method.	<u>310.2-A98</u>	AAB #: <u>A6B21856</u>				
Lab Name:	STL Buffalo	Contract #				_
Field Sample ID:	TF3M21140A	Lab Sample ID: <u>A6710211</u> Matri>			ATER	
% Solids:	0.0					
Date Received:	<u>21-Jun-2006</u>			Date Analyzed: <u>2</u>	7-Jun-2006	
Concentration Units:	MG/L					
Analyte		MDL.	RL	Concentration	Dilution	Qualifier
ALKALINITY, TOTAL (AS	CACO3)	5.3	10	147	2.00	

# FPM-GROUP Data Verification and Usability Report GRIFFISS AIR FORCE BASE Site Griffiss AFB TANK FARM 1/3 Water Sampling Contract No. F41624-03-D-8601

# FPM Project No. 40-05-27

# LSL Job # 0609018

Laboratory:	Life Sciences Laboratories, Inc.
Sample Matrix:	Water
Number of Samples:	15
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	June 26, 2006

# LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	QC Samples	Date
TF3CE313PA	9/26/06	092606PE, 092606PF, 092606PR	9/26/06
TF3M2114PA	9/26/06		
TF3M11614PA	9/26/06		
TF3M11713PA	9/26/06		
TF3M119R12PA	9/26/06		
TF3M121R12PA	9/26/06		
TF3M12314PA	9/26/06		
TF3M12614PA	9/26/06		
TF3M12713PA	9/26/06		
TF3M13316PA	9/26/06	TF3M13316PC	9/26/06
TF3M12814PA	9/26/06		

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.

PA - Primary environmental samples

PC - Field duplicate sample

PE – Equipment blank

PF – Ambient blank

PR - Trip blank

# DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

# ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the soil sample analysis was per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included SW-846: Volatile Organic Compounds (VOCs) by Method SW8260 and Semivolatile Organic Compounds (SVOCs) by Method SW8270, and Total Alkalinity by EPA Method 310.2.

# **VERIFICATION GUIDANCE**

The analytical work was performed by Life Sciences Laboratories, Inc. in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "R" (Rejected) according to QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the U.S. Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) National Functional Guidelines for Organic (and Inorganic) Data Review (February 1994), and the AFCEE QAPP, Version 4.0.

# QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)
- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times
- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)

- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols <u>with exceptions discussed in the text below</u>. The data have been verified according to the procedures outlined above and qualified accordingly.

# GENERAL NOTES:

# MISSING SAMPLES

None. All samples documented on the chain of custody were received by the laboratory.

# SAMPLE LABELING

No problems were encountered with sample labeling and transcription to laboratory forms.

# **BLANKS**

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data verifier qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than the RL, no further action was taken in such instances.

# MS/MSD

For SVOCs, the lab performed matrix spike and matrix spike duplicate samples for parent sample TF3M119R12OA. However, these samples were not requested by the client in the chain-of-custody; therefore, no action was taken for the MS/MSD criterion.

# VOLATILE ORGANIC COMPOUNDS (VOCs)

• The analyte isopropylbenzene required additional dilution (1:2) in original samples TF3M2114NA and TF3M12314PA, which were analyzed at 1:1. Also, the analytes ethylbenzene and 1,2,4-trimethylbenzene required additional dilution (1:5) in original sample TF3M12713PA, which was analyzed at 1:1. Use diluted sample results for these compounds only. Original sample results are modified accordingly.

# SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)

• Laboratory performance on individual samples is established by means of spiking all samples prior to analysis with surrogate compounds and assessing the percent recoveries. The following table summarizes QC exceedances for samples which exhibited surrogate compound recovery deficiencies. The Sample ID, surrogate compound, percent recoveries, and QC limits are listed.

Sample ID	Surrogate	%Rec	AFCEE QC Limits (%)	Flag Applied	Rationale
TF3M121R12PA	2,4,6-Tribromophenol	18	42-124	J/UJ	%Rec lower than lower control limit but greater than 10%
TF3M121R12PA (reanalysis)	2,4,6-Tribromophenol	26	42-124	R	Reanalysis performed outside holding time; original results used
Method Blank-3922	2,4,6-Tribromophenol	129	42-124	None	QC sample relevant only to reanalyzed sample TF3M121R12PA (rejected)
LCS-3922	2,4,6-Tribromophenol	132	42-124	None	QC sample relevant only to reanalyzed sample TF3M121R12PA (rejected)
LCSD-3922	2,4,6-Tribromophenol	137	42-124	None	QC sample relevant only to reanalyzed sample TF3M121R12PA (rejected)

If the surrogate recovery is not within AFCEE limits, corrective action shall be implemented: the sample shall be reextracted and reanalyzed. If the corrective action is ineffective in resolving the exceedance, then all analytes associated with the surrogate in that sample are qualified. As per the QAPP, for samples with recoveries greater than the upper control limit,

positive sample results are considered estimated (flagged "J"). For samples with surrogate recoveries greater than 10% but less than the lower control limit, positive results are considered estimated (flagged "J") and non-detect results are considered estimated (flagged "U"). For samples with surrogate recoveries less than 10%, the results are rejected for the analytes. However, using professional judgment, no corrective action and/or flagging is required for minimal exceedances (i.e., within 1% of the control limits).

**Corrective Action:** The sample TF3M121R12PA above was re-extracted and reanalyzed due to one surrogate recovery exceedance, that for 2,4,6-tribromophenol. The results of the resample reanalysis are also shown in the above table. The determination of which sample results to use for each sample is summarized below:

- TF3M121R12PA: The reanalyzed sample confirmed a matrix effect, according to the case narrative. However, the reanalyzed sample was re-extracted outside of holding time (maximum holding time 7 days, time to re-extraction 8.2 days). Therefore, the reanalysis results were rejected, and the original results were deemed usable with qualifiers as discussed above ("J" for detected results, "UJ" for non-detect results). Note that this surrogate is associated with seven analytes: 2,4,5-trichlorophenol, 2,4,6-trichlorophenol, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, 4-chloro-3-methylphenol, 4-nitrophenol, and pentachlorophenol.
- MB-3922, LCS-3922, and LCSD-3922: These QC samples are only relevant to the reanalyzed sample TF3M121R12PA, which was rejected. No corrective action or qualification of the original sample results is required.

Analyte	CCV %D
LSL Job # 0609018, CCV CC100506A5	
Benzoic Acid	21.6
Hexachlorobutadiene	-27.8
2,4,6-Tribromophenol	-24.4
Indeno[1,2,3-cd]pyrene	-25.4
Dibenz[a,h]anthracene	-26.6

• According to the case narrative, the following analytes exhibited percent differences greater than 20% for the purposes of the continuing calibration verification (CCV):

<u>Corrective Action</u>: This CCV was relevant only to the reanalyzed sample TF3M121R12PA, which was rejected. No corrective action or qualification of the original sample results is required.

• Laboratory control samples (LCS) are samples spiked with all analytes of interest at known concentrations. The following table summarizes QC exceedances of the LCS analysis. The LCS ID, percent recovery, and QC limits are listed.

LCS Job Number Spike Analytes	LCS %Rec	QC Limits (%)	Flag Applied	Rationale	
LSL Job # 0609018: LCS	-3904				
Benzoic Acid	0	20-120	None	%Rec within marginal exceedance limits (0-150) and parameters of approved variance	
LSL Job # 0609018: LCSD-3904					
Benzoic Acid	10	20-120	None	%Rec within marginal exceedance limits	

LCS Job Number	LCS	QC	Flag	Rationale
Spike Analytes	%Rec	Limits (%)	Applied	
				(0-150) and parameters of approved variance

The LCS analyses are used to assess the overall laboratory performance pertaining to the analytical method. The QAPP includes method-specific QC acceptance criteria for the percent recovery of the spike compounds. The LCS results are used to evaluate each AFCEE analytical batch and to determine if the method is within control limits. When an LCS analyte is outside the acceptance limit, the laboratory shall perform corrective action. If the corrective action is ineffective in resolving the exceedance, then that analyte's results in all the associated samples are qualified. According to the QAPP, when the percent recovery (%Rec) is greater than the upper control limit, positive results are considered estimated (flagged "J"); and when the %Rec is less than the lower control limit, positive values are estimated (flagged "J") and non-detects are rejected (flagged "R"). Note that the QAPP also allows for up to three marginal exceedances of LCS control limits for an LCS with 64 analytes.

<u>Corrective Action</u>: In accordance with the case narrative, no corrective action was required since %Rec was within marginal exceedance limits. Furthermore, LSL has an approved variance which states that corrective action is not required if benzoic acid (a poor-performing analyte) exceeds acceptance criteria. Note that benzoic acid is not a project-specific analyte of concern for the site.

# TOTAL ALKALINITY

• There were no exceedances for total alkalinity analysis.

# DATA USABILITY RESULTS

# VOCs

Based on the evaluation of all information in the analytical data groups, the results of the samples for VOCs are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

# **SVOCs**

Based on the evaluation of all information in the analytical data groups, the results of the samples for SVOCs are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

# TOTAL ALKALINITY

Based on the evaluation of all information in the analytical data groups, the results of the samples for total alkalinity are highly usable with the data qualifiers as noted. Using the verification approach as presented above, the results for all above samples are 100% usable.

# **AFCEE SUMMARY**

All data in Job # 0609018 are valid and usable with qualifications as noted in the data review.

Signed: Concordin Van Hoesel Date: 11/3/06

# **ATTACHMENTS**

- Chain-of-Custody
- Laboratory's Case Narrative
- Definition of AFCEE Data Qualifiers
- Definition of USEPA Data Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

## AFCEE ORGANIC ANALYSES DATA PACKAGE

Base/Command:		Prime Contractor:	FPM Group
Lab Name:	Life Science Laboratories, Inc.	Contract Number:	
Analytical Method:	<u>SW8260B</u>	AAB #:	<u>R6783</u>

Field Sample ID Lab Sample ID TF3CE313PA 0609018-001A TF3M2114PA 0609018-002A TF3M11614PA 0609018-003A TF3M11713PA 0609018-004A TF3M119R12PA 0609018-005A TF3M121R12PA 0609018-006A TF3M12314PA 0609018-007A TF3M12614PA 0609018-008A TF3M12713PA 0609018-009A TF3M13316PC 0609018-012A 092606PE 0609018-013A 092606PF 0609018-014A 092606PR 0609018-015A

#### Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature:	Monika Santucci	Name:	Monika Santucci
Date:	40/30/06	Title:	Project Manager
.0	AFCEE FOI	RM O-1	Page 1 of 2

QAPP 4.0

## AFCEE ORGANIC ANALYSES DATA PACKAGE

Analytical Method:	<u>SW8260B</u>	AAB #:	<u>R6816</u>
Lab Name:	Life Science Laboratories, Inc.	Contract Number:	

Base/Command:

Prime Contractor: FPM Group

Field Sample ID	Lab Sample ID
TF3M12314PA	0609018-007A
TF3M12713PA	0609018-009A
TF3M12814PA	0609018-010A
TF3M13316PA	0609018-011A

#### Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature:	Morika Donquicei	Name:	Monika Santucci
Date:	10/20/06	Title:	Project Manager
QAPP 4.0	AFCEE FOR	M O-1	Page 2 of 2

Analytical Method:	SW8260B	Preparat	ory Method:		AAB #:	E	6783
Lab Name:	Life Science Laboratorie	<u>is, Inc.</u>		Contract #:			
Field Sample ID:	TF3CE313PA	Lab Sam	ple ID:	0609018-0	<u>01A</u> Ma	atrix:	Groundwater
% Solids:	<u>0</u>	Initial Ca	libration ID:	<u>663</u>	File ID:	J0058.D	
Date Received:	27-Sep-06	Date Extr	racted:		Date An	alyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weig	ht): ⊔	<u>g/L</u>		Sample		10 mL
	Analyte		MDL	RL	Concentration	Dilution	
(m+p)-Xylene			0.0280	2.0	0.0280	1	U
1,1,1,2-Tetrachloroeth	ane		0.0540	0.50	0.0540	1	U
1,1,1-Trichloroethane			0.0150	1.0	0.0150	1	- Ŭ
1,1,2,2-Tetrachloroeth	ane		0.0810	0.50	0.0810	1	U U
1,1,2-Trichloroethane			0.0280	1.0	0.0280	1	- U
1,1-Dichloroethane			0.0330	1.0	0.0330	1	- U
1,1-Dichloroethene			0.0460	1.0	0.0460	1	- Ŭ
1,1-Dichloropropene			0.0240	1.0	0.0240	1	
1,2,3-Trichlorobenzene	>		0.0360	1.0	0.0360	1	
1,2,3-Trichloropropane			0.0460	1.0	0.0460	1	- u
1,2,4-Trichlorobenzene	>		0.0250	1.0	0.0250	1	U
1,2,4-Trimethylbenzen	6		0.0120	1.0	0.0120	1	U
1,2-Dibromo-3-chlorop	ropane		0.261	2.0	0.261	1	<u> </u>
1,2-Dibromoethane			0.0350	1.0	0.0350	1	- <u> </u>
1,2-Dichlorobenzene			0.0190	1.0	0.0190	1	
1,2-Dichloroethane			0.0240	0.50	0.0240	1	U
1,2-Dichloropropane			0.0260	1.0	0.0260	1	U
1,3,5-Trimethylbenzen	3	·····	0.0130	1.0	0.0130	1	U
1,3-Dichlorobenzene			0.0200	1.0	0.0200	1	<u> </u>
1,3-Dichloropropane			0.0230	0.50	0.0230	1	
1,4-Dichlorobenzene	,,,,,,,,,,,		0.0170	0.50	0.0170	1	- <u> </u>
1-Chlorohexane			0.0470	1.0	0.0470	1	U
2,2-Dichloropropane			0.0820	1.0	0.0820	1	U
2-Butanone	······		0.649	10	0.649	1	
2-Chlorotoluene	ΔΑΔΑ		0.0120	1.0	0.0120	1	U
4-Chlorotoluene			0.0170	1.0	0.0170	1	U
4-Methyl-2-pentanone	*		0.375	10	0.375	1	U
Acetone			0.823	10	0.823	1	- U
Benzene			0.0100	0.50	0.0100	1	U
Bromobenzene			0.0280	1.0	0.0280	1	U
Bromochloromethane			0.0590	1.0	0.0590	1	
Bromodichloromethane	}		0.0310	0.50	0.0310	1	U
Bromoform			0.0470	1.0	0.0470	1	- U
			I				

Comments:

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UNA 11/3/06

Analytical Method:	SW8260B	Preparato	ory Method:		AAB #:	Re	783
Lab Name:	Life Science Laborat	ories, Inc.		Contract #:			
Field Sample ID:	TF3CE313PA	Lab Sam	ple ID:	<u>0609018-(</u>	<u>)01A</u> Ma	trix:	Groundwater
% Solids:	<u>0</u>	Initial Cal	libration ID:	<u>663</u>	File ID:	J0058.D	
Date Received:	27-Sep-06	Date Extr	acted:		Date An	alyzed:	02-Oct-06
Concentration Units	(ua/L or ma/Ka drv w	eioht): u	a/L		Sample	Cirra.	10 mL
5		· · –		RL	Concentration		
Bromomethane	Analyte		0.0590	RL 3.0	0.0590	1	U
Carbon tetrachloride			0.0320	1.0	0.0320	1	Ŭ
Chlorobenzene			0.0320	0.50	0.0110	1	
Chloroethane			0.0110	1.0	0.0110	1	U
Chloroform					0.0290	1	U
		·····	0.0290	0.50	0.126	1	
Chloromethane			0.126	1.0	0.0320	1	U U
cis-1,2-Dichloroethene			0.0320	1.0	0.0320	1	U
cis-1,3-Dichloroproper			0.0210	0.50		1	U U
Dibromochloromethan	16		0.0410	0.50	0.0410	1	U U
Dibromomethane			0.0380	1.0		1	U U
Dichlorodifluorometha	ne		0.0670	1.0	0.0670		
Ethylbenzene			0.0240	1.0	0.0240		<u> </u>
Hexachlorobutadiene			0.0610	0.60	0.0610	1	<u> </u>
Isopropylbenzene			0.0210	1.0	6.40		
Methyl tert-butyl ether	, 		0.0250	5.0	0.0250	1	U
Methylene chloride			0.0340	1.0	0.0340	1	U
n-Butylbenzene			0.0130	1.0	1.31		
n-Propylbenzene			0.00900	1.0	6.68	1	
Naphthalene			0.0240	1.0	2.33 :	1	
o-Xylene			0.0140	1.0	0.0140	1	U
p-Isopropyltoluene			0.0140	1.0	0.0140	1	U
sec-Butylbenzene			0.0170	1.0	4,06	1	
Styrene			0.0200	1.0	0.0200	1	U
tert-Butylbenzene			0.0160	1.0	0.850	1	F
Tetrachloroethene			0.0300	1.0	0.0300	1	U
Toluene	1999 - 1999 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19		0.0180	1.0	0.0180	1	U
trans-1,2-Dichloroethe	ene		0.0270	1.0	0.0270	1	U
trans-1,3-Dichloroprop	pene		0.0290	1.0	0.0290	1	U
Trichloroethene			0.0270	1.0	1.13 《	1	
Trichlorofluoromethar	ie		0.0200	1.0	0.0200	1	<u> </u>
Vinyl chloride			0.0380	1.0	0.0380	1	U
Xylenes (total)			0.0420	2.0	0.0420	1	U

## Comments:

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C	Comments:		1 at

QAPP 4.0

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Analytical Method:	SW8260B	Preparatory Method:		AAB #:	<u>R6783</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract #:		
Field Sample ID:	TF3CE313PA	Lab Sample ID:	0609018-001A	Matrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID:	<u>663</u>	File ID: J0058.I	D
Date Received:	27-Sep-06	Date Extracted:		Date Analyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight)	: <u>µg/L</u>		Sample Size:	10 mL
	Surrogate	Recover	Control Limite		

1,2-Dichloroethane-d4	98	72 - 119	
4-Bromofluorobenzene	103	76 - 119	
Dibromofluoromethane	101	85 - 115	
Toluene-d8	112	81 - 120	

internal Std	Area Counis	Area Count Limits Qualifier
1,4-Dichlorobenzene-d4	359807	178690 - 714758
Chlorobenzene-d5	383900	199960 - 799842
Fluorobenzene	1143274	571263 - 2285052

WA 11/3/06

Analytical Method:	SW8260B	Preparat	ory Method:		AAB #:	R	<u> 5783</u>
Lab Name:	Life Science Laboratories	<u>Inc.</u>		Contract #:			
Field Sample ID:	TF3M2114PA	Lab Sam	ple ID:	0609018-0	<u>102A</u> Ma	trix:	Groundwater
% Solids:	<u>0</u>	Initial Ca	libration ID:	<u>663</u>	File ID:	J0059.D	
Date Received:	27-Sep-06	Date Extr	acted:		Date Ana	ivzed:	02-Oct-06
Concentration Units /	ug/L or mg/Kg dry weigh		g/L		·	•	·
		-y- E			Sample :		10 mL
(m+p)-Xylene	Analyte		MDL 0.0280	RL 2.0	Concentration 1.18	Dilution	Gualifier
1,1,1,2-Tetrachloroetha			<u></u>	0.50	0.0540	1	
1.1.1-Trichloroethane	2110		0.0540	1.0	0.0150	1	U U
1.1.2.2-Tetrachloroetha	200		0.0150	0.50	0.0810	1	U
1,1,2-Trichloroethane			0.0280	1.0	0.0280		U
1,1-Dichloroethane			0.0280	1.0	0.0330	1	
1,1-Dichloroethene			0.0330	1.0	0.0460	1	- u
1,1-Dichloropropene			0.0480	1.0	0.0240	1	U
1.2.3-Trichlorobenzene			0.0240	1.0	0.0360	1	
1,2,3-Trichloropropane			0.0360	1.0	0.0460	1	U
1.2.4-Trichlorobenzene		<b></b>	0.0250	1.0	0.0250	1	U
1,2,4-Trimethylbenzen			0.0120	1.0	0.670	1	F
1,2-Dibromo-3-chlorop			0.261	2.0	0.261	1	- U
1.2-Dibromoethane			0.0350	1.0	0.0350	1	U
1,2-Dichlorobenzene			0.0190	1.0	0.0190	1	U
1,2-Dichloroethane		·······	0.0240	0.50	0.0240	1	U
1,2-Dichloropropane		••••	0.0260	1.0	0.0260	1	U
1,3,5-Trimethylbenzen	e		0.0130	1.0	0.0130	1	U
1.3-Dichlorobenzene			0.0200	1.0	0.0200	1	U
1,3-Dichloropropane			0.0230	0.50	0.0230	1	U
1,4-Dichlorobenzene			0.0170	0.50	0.0170	1	U
1-Chlorohexane			0.0470	1.0	0.0470	1	- U
2,2-Dichloropropane			0.0820	1.0	0.0820	1	U
2-Butanone	······	- <u>.</u>	0.649	10	0.649	1	U
2-Chlorotoluene		nva	0.0120	1.0	0.0120	1	U
4-Chlorotoluene			0.0170	1.0	0.0170	1	U
4-Methyl-2-pentanone			0.375	10	0.375	1	U
Acetone			0.823	10	0.823	1	U
Benzene			0.0100	0.50	0.230	1	F
Bromobenzene			0.0280	1.0	0.0280	1	U
Bromochloromethane	**************************************		0.0590	1.0	0.0590	1	U
Bromodichloromethan	e		0.0310	0.50	0.0310	1	U
Bromoform			0.0470	1.0	0.0470	1	U

Analytical Method:	<u>SW8260B</u>	Preparatory Method	:	AAB #:	R	6783	
Lab Name:	Life Science Laborat	ories, Inc.	Contract #:				
Field Sample ID:	TF3M2114PA	Lab Sample ID:	0609018-	<u>002A</u> Mat	rix:	Groundwater	
% Solids:	Q	Initial Calibration ID	<u>663</u>	File ID:	J0059.D		
Date Received:	27-Sep-06	Date Extracted:		Date Anal	yzed:	02-Oct-06	
Concentration Units	(ug/L or mg/Kg dry w	eight): <u>ua/L</u>		Sample S	-	10 п	nl
	Analyte	MDL	RL	Concentration	Dilutior		
Bromomethane	- rastinyets	0.0590	3.0	0.0590	1	U Sectionalities	
Carbon tetrachloride	·	0.0320	1.0	0.0320	1	- U	
Chlorobenzene		0.0110	0.50	0.0110	'	- U	
Chloroethane		0.0116	1.0	0.116	1	U	-
Chloroform		0.0290	0.50	0.0290		<u>ט</u>	
Chloromethane		0.126	1.0	0.126	1	U U	
cis-1,2-Dichloroethene	3	0.0320	1.0	0.0320	1	U	
cis-1,3-Dichloroproper	ne	0.0210	0.50	0.0210	1		
Dibromochloromethan	e	0.0410	0.50	0.0410	1	- U	
Dibromomethane		0.0380	1.0	0.0380	1	U	
Dichlorodifluorometha	ne	0.0670	1.0	0.0670	. 1	U	
Ethylbenzene	Walahan (1844) & Walahaki	0.0240	1.0	0.150	1	F	
Hexachlorobutadiene		0.0610	0.60	0.0610	1	U	
Isopropylbenzene		0.0210	1.0	640 62.9	#2	J	-*
Methyl tert-butyl ether		0.0250	5.0	0.0250	1	U	
Methylene chloride		0.0340	1.0	0.0340	1	U	
n-Butylbenzene		0.0130	1.0	2.96 *	1		
n-Propylbenzene		0.00900	1.0	10.8	1		
Naphthalene		0.0240	1.0	2.76	1		
o-Xylene		0.0140	1.0	0.0140	1	U	
p-Isopropyltoluene		0.0140	1.0	3.84	1	1	
sec-Butylbenzene		0.0170	1.0	5.10	1		
Styrene	· · · · · · · · · · · · · · · · · · ·	0.0200	1.0	0.0200	.1	U	
tert-Butylbenzene		0.0160	1.0	1.53	1		
Tetrachloroethene		0.0300	1.0	0.0300	1	U	
Toluene		0.0180	1.0	0.240	1	F	
trans-1,2-Dichloroethe	ne	0.0270	1.0	0.0270	1	U	
trans-1,3-Dichloroprop	ene	0.0290	1.0	0.0290	1	U	
Trichloroethene		0.0270	1.0	0.0270	1	U	
Trichlorofluoromethan	e	0.0200	1.0	0.0200	1	U	
Vinyl chloride		0.0380	1.0	0.0380	1	υ	
Xylenes (total)		0.0420	2.0	1.18	1	F	

Comments:

\* Result transferrer from Libertin sample TF3MZ/14PA(1:2)

Wht 11/3/06

Analytical Method:	<u>SW8260B</u>	Preparatory Method:		AAB #:	<u>R6783</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract #:		
Field Sample ID:	TF3M2114PA	Lab Sample ID:	0609018-002A	Matrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID:	<u>663</u>	File ID: J0059.	D
Date Received:	27-Sep-06	Date Extracted:		Date Analyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight)	μ <u>α/l</u>		Sample Size:	10 mL
	Surrogate	Recover	y 👘 Control Limit	Qualifier	
1,2-Dich	loroethane-d4	94	72 - 119		
4-Bromo	ofluorobenzene	110	76 - 119		
Dibromo	ofluoromethane	96	85 - 115		
Toluene	-d8	116	81 - 120		

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	439817	178690 - 714758	
Chlorobenzene-d5	449222	199960 - 799842	
Fluorobenzene	1303642	571263 - 2285052	

do

#### Comments:

QAPP 4.0

Lab Name:         Life Science Laboratories. Inc.         Contract #:           Field Sample ID:         TF3M2114PA         Lab Sample ID:         0609018-002A         Matrix:         Convolvement           % Solids:         Q         Initial Calibration ID:         663         File ID:         0073.D           Date Received:         ZT-Sap-06         Date Extracted:         Date Analyze:         02-Oct-06           Concentration Units (ug/L or mg/Kg dry weight):         µg/L         Sample Size:         10 mf           1,1.2-Tetratchioroethane         0.0300         2.0         0.0300         2         U           1,1.1.2-fratrachioroethane         0.0660         2.0         0.0660         2         U           1,1.2-Tretrachioroethane         0.0660         2.0         0.0660         2         U           1,1-Dichtoroethane         0.0660         2.0         0.0660         2         U           1,1-Dichtoroethane         0.0660         2.0         0.0660         2         U           1,2-Trichtoroethane         0.0720         2         U         U         U           1,2-Dichtoroethane         0.0720         2         U         U         U           1,2-Dichtoroethane         0.0700	Analytical Method:	SW8260B	Preparato	ry Method:		AAB #:	R	6783
% Solida:         0         Initial Calibration ID:         663         File ID:         JOURTINGE           Date Received:         27.Sep06         Date Extracted:         Date Analyzed:         02-Oct-06           Concentration Units (ug/L or mg/Kg dry weight):         ug/L         Sample Size:         10 ml           (m*p)-Xylene         0.0560         4.0         1.12         2         F           1.1.12-Tetrachloroethane         0.108         1.0         0.108         2         U           1.1.12-Tetrachloroethane         0.162         1.0         0.6660         2         U           1.1.22-Tetrachloroethane         0.0560         2.0         0.03000         2         U           1.1.22-Tetrachloroethane         0.0660         2.0         0.0660         2         U           1.1.22-Tetrachloroethane         0.0660         2.0         0.0660         2         U           1.1.22-Tetrachloroethane         0.0660         2.0         0.0660         2         U           1.23-Trichloroethane         0.0660         2.0         0.0660         2         U           1.23-Trichloroethane         0.0500         2.0         U         U         1.24-Trichtrithorobenzene         0.020         2.	Lab Name:	Life Science Laboratories.	Inc.		Contract #:			
Date Received:         27.Sep-06         Date Extracted:         Date Analyzed:         02-Oct-06           Concentration Units (ug/L or mg/Kg dry weight):         ug/L         Sample Size:         10 ml           (m+p)-Xylene         0.0560         4.0         1.12         2         F           1,1.1-Trichioroethane         0.0108         1.0         0.0108         2         U           1,1.2-Tetrachioroethane         0.0660         2.0         0.0300         2         U           1,1.2-Trichioroethane         0.0660         2.0         0.0660         2         U           1,1-Dichioroethane         0.0660         2.0         0.0660         2         U           1,2-Dichioroethane         0.0720         2.0         0.0720         2         U           1,2-Dichioroethane         0.0620         2.0         0.0620         2         U           1,2-Dichioroethane         0.0520         2.0	Field Sample ID:	TF3M2114PA	Lab Samp	ole ID:	0609018-0	<u>02A</u> Ma	atrix:	Groundwater
Linking         Date Extraction         Date Multiple         Date Multiple         Date Multiple           Concentration Units (ug/L or mg/Kg dry weight):         uo/L         Sample Size:         10 ml.           (m*p)-Xylene         0.0550         4.0         1.12         2 F           1.1,12-Tetrachloresthane         0.0300         2.0         0.0300         2         U           1.1,12-Tetrachloresthane         0.0660         2.0         0.0560         2         U           1.1,2-Tetrachloresthane         0.0660         2.0         0.0560         2         U           1.1,2-Tetrachloresthane         0.0660         2.0         0.0660         2         U           1.1-Dichloresthane         0.0660         2.0         0.0660         2         U           1.1-Dichloresthane         0.0660         2.0         0.0660         2         U           1.2-Tetrachloresthane         0.0660         2.0         0.0660         2         U           1.2-Tetrachloresthane         0.0660         2.0         0.0660         2         U           1.2-Tetrachloresthane         0.0660         2.0         0.0720         2         U           1.2-Tetrachloresthane         0.0620         2.0<	% Solids:	<u>0</u>	Initial Cal	ibration ID:	<u>663</u>	File ID:	J0073.D	
Analyte         MDL         PL         Concentration         Dilution         Qualifier           (m+p)-Xylene         0.0560         4.0         1.12         2         F           1.1,1-Trichtoroethane         0.0300         2.0         0.0300         2         U           1.1,1-Trichtoroethane         0.162         1.0         0.162         2         U           1.1,2-Trichtoroethane         0.0560         2.0         0.0560         2         U           1.1-Dichtoroethane         0.0560         2.0         0.0660         2         U           1.1-Dichtoroethane         0.0620         2.0         0.0520         2         U           1.1-Dichtoroethane         0.0620         2.0         0.0520         2         U           1.2-Strichtoroethane         0.0720         2.0         0.0520         2         U           1.2-Strichtoroethane         0.0620         2.0         0.0520         2         U           1.2-Strichtoroepragene         0.0220         2.0         0.0520         2         U           1.2-Strichtoroepragene         0.0240         2.0         1.04         2         F           1.2-Strichtoroepragene         0.0240 <td< td=""><td>Date Received:</td><td>27-Sep-06</td><td>Date Extra</td><td>acted:</td><td></td><td>Date An</td><td>alyzed:</td><td>02-Oct-06</td></td<>	Date Received:	27-Sep-06	Date Extra	acted:		Date An	alyzed:	02-Oct-06
Analyle         MDL         PL         Concentration         Dilution         Qualifier           (m*p)-Xylene         0.0560         4.0         1.12         2         F           1.1.12-Tetrachloroethane         0.108         1.0         0.108         2         U           1.1.12-Tetrachloroethane         0.0300         2.0         0.0300         2         U           1.1.2-Tetrachloroethane         0.0660         2.0         0.0660         2         U           1.1-Dickhoroethane         0.0660         2.0         0.0660         2         U           1.1-Dickhoroethane         0.0920         2.0         0.0820         2         U           1.1-Dickhoroethane         0.0920         2.0         0.0820         2         U           1.2-Strichkoroethane         0.0440         2.0         0.0480         2         U           1.2-Strichkoroethane         0.0620         2.0         0.0820         2         U           1.2-Strichkoroenzene         0.0620         2.0         0.0820         2         U           1.2-Strichkoroenzene         0.0620         2.0         0.0520         2         U           1.2-Strichkoroenzene         0.0620	Concentration Units (	ug/L or mg/Kg dry weight	): <u>µ</u> g	<u>/L</u>		Samala	Siza.	10 ml
Im-p)-Xylene         0.0560         4.0         1.12         2         F           1,1,2-Tetrachloroethane         0.108         1.0         0.00300         2         U           1,1,1-Trichloroethane         0.162         1.0         0.162         2         U           1,1,2-Trichloroethane         0.0660         2.0         0.0560         2         U           1,1-Zirchloroethane         0.0660         2.0         0.0660         2         U           1,1-Dichloroethane         0.0660         2.0         0.0660         2         U           1,1-Dichloroethane         0.0660         2.0         0.0660         2         U           1,1-Dichloroethane         0.0620         2.0         0.0660         2         U           1,2-Strichloroptopane         0.0480         2.0         0.0480         2         U           1,2-Trichloroptopane         0.0500         2.0         0.0500         2         U           1,2-Trimetrybenzene         0.0500         2.0         0.0500         2         U           1,2-Trimetrybenzene         0.0500         2.0         0.0300         2         U           1,2-Dichloroptopane         0.0520         2.0		Analyte		RAFDI	RI			
1.1.1.2-Tetrachloroethane         0.108         1.0         0.108         2         U           1.1.1-Trichloroethane         0.0300         2.0         0.0300         2         U           1.1.2.2-Tetrachloroethane         0.162         1.0         0.162         2         U           1.1.2.2-Tetrachloroethane         0.0660         2.0         0.0660         2         U           1.1.Dichloroethane         0.0620         2.0         0.0920         2         U           1.1-Dichloroethane         0.0480         2.0         0.0480         2         U           1.2.3-Trichlorobenzene         0.0720         2.0         0.0720         2         U           1.2.3-Trichlorobenzene         0.06500         2.0         0.0920         2         U           1.2.4-Trichlorobenzene         0.0500         2.0         0.0500         2         U           1.2.4-Trichlorobenzene         0.0522         2         U         U         1.2-Dichloroethane         0.0520         2         U           1.2.Dichloroethane         0.0520         2.0         0.0700         2         U         U           1.2-Dichloroethane         0.0520         2.0         0.0520         2	(m+p)-Xylene							
1.1.1-Trichloroethane         0.0300         2.0         0.0300         2         U           1.1.2.2-Tetrachloroethane         0.162         1.0         0.162         2         U           1.1.2-Trichloroethane         0.0560         2.0         0.0560         2         U           1.1-Dichloroethane         0.0660         2.0         0.0660         2         U           1.1-Dichloroethane         0.0920         2.0         0.0920         2         U           1.1-Dichloroethane         0.0920         2.0         0.0480         2         U           1.2.3-Trichlorobenzene         0.0720         2.0         0.0920         2         U           1.2.3-Trichloropengane         0.0500         2.0         0.0920         2         U           1.2.3-Trichloropengane         0.0500         2.0         0.0920         2         U           1.2.4-Trichloropengane         0.0500         2.0         0.0700         2         U           1.2.4-Trichloropengane         0.0220         0.0700         2         U         1           1.2-Dibromo-scharopropane         0.0260         2.0         0.0720         2         U           1.2-Dichlorobenzene         0.0380	1,1,1,2-Tetrachloroetha	Ine						
1.1.2.2-Tetrachloroethane         0.162         1.0         0.162         2         U           1.1.2-Trichloroethane         0.0560         2.0         0.0560         2         U           1.1-Dichloroethane         0.0660         2.0         0.0660         2         U           1.1-Dichloroethane         0.0920         2.0         0.0920         2         U           1.1-Dichloropropene         0.0480         2         U         U         1.2.3-Trichlorobenzene         0.0720         2         U           1.2.3-Trichlorobenzene         0.0500         2.0         0.0620         2         U           1.2.4-Trichlorobenzene         0.0500         2.0         0.0500         2         U           1.2.4-Trichlorobenzene         0.0500         2.0         0.0500         2         U           1.2.4-Trichlorobenzene         0.0520         2         U         1.2.4-Trichloropropane         0.522         4.0         0.522         2         U           1.2.4-Dichloropropane         0.522         4.0         0.522         2         U         1.2-Dichloropropane         0.0480         2         U         1.2-Dichloropropane         0.0480         2         U         1.3-Dichloropropane <td>1,1,1-Trichloroethane</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1,1,1-Trichloroethane							
1,1,2-Trichloroethane         0.0560         2.0         0.0560         2         U           1,1-Dichloroethane         0.0660         2.0         0.0660         2         U           1,1-Dichloroethane         0.0920         2.0         0.0920         2         U           1,1-Dichloropropene         0.0480         2.0         0.0480         2         U           1,2,3-Trichlorobenzene         0.0720         2.0         0.0720         2         U           1,2,4-Trichlorobenzene         0.0240         2.0         0.0500         2         U           1,2,4-Trichloropropane         0.0240         2.0         1.04         2         F           1,2-Dibromo-3-chloropropane         0.0240         2.0         1.04         2         F           1,2-Dibromo-3-chloropropane         0.0240         2.0         0.0700         2         U           1,2-Dichlorobenzene         0.0380         2.0         0.0380         2         U         U           1,2-Dichlorobenzene         0.0480         1.0         0.0480         2         U           1,2-Dichlorobenzene         0.0520         2         U         U         1.3-Dichlorobenzene         0.0540         2	1,1,2,2-Tetrachloroetha	ine						
1.1-Dichloroethane         0.0660         2.0         0.0660         2         U           1.1-Dichloroethane         0.0920         2.0         0.0920         2         U           1.1-Dichloroethane         0.0480         2.0         0.0480         2         U           1.2,3-Trichloropropane         0.0720         2.0         0.0720         2         U           1.2,3-Trichloropropane         0.0500         2.0         0.0500         2         U           1.2,4-Trinchloropropane         0.0520         2.0         0.0500         2         U           1.2-Hrinchloropropane         0.0522         4.0         0.522         2         U           1.2-Dibromo-3-chloropropane         0.522         4.0         0.522         2         U           1.2-Dichlorobenzene         0.0700         2.0         0.0700         2         U           1.2-Dichlorobenzene         0.0380         2.0         0.0380         2         U           1.2-Dichloropenane         0.0480         1.0         0.0480         2         U           1.2-Dichloropenane         0.0400         2.0         0.0400         2         U           1.3-Dichloropropane         0.0460	1,1,2-Trichloroethane				• [].	//////	·	
1.1-Dichlorogene         0.0920         2.0         0.0920         2         U           1.1-Dichloropropene         0.0480         2.0         0.0480         2         U           1.2.3-Trichlorobenzene         0.0770         2.0         0.0720         2         U           1.2.3-Trichloropopane         0.0920         2.0         0.0920         2         U           1.2.4-Trichlorobenzene         0.0500         2         U         U         U           1.2.4-Trichlorobenzene         0.0500         2         U         U         U           1.2.4-Trinethylbenzene         0.0500         2         U         U         U         U           1.2-Dibromo-3-chloropropane         0.522         4.0         0.522         2         U           1.2-Dibromoethane         0.0700         2.0         0.0700         2         U           1.2-Dichloropropane         0.0480         1.0         0.0480         2         U           1.2-Dichloropropane         0.0520         2.0         0.0520         2         U           1.2-Dichloropenpane         0.0480         1.0         0.0480         2         U           1.3-Dichloropenpane         0.0520	1,1-Dichloroethane				- I			
1.1-Dichloropropene         0.0480         2.0         0.0480         2         U           1.2,3-Trichlorobenzene         0.0720         2.0         0.0720         2         U           1.2,3-Trichlorobenzene         0.0920         2.0         0.0920         2         U           1.2,4-Trichlorobenzene         0.0500         2.0         0.0500         2         U           1.2,4-Trichlorobenzene         0.0500         2.0         1.04         2         F           1.2,4-Trimethylbenzene         0.0240         2.0         1.04         2         F           1.2-Dibromo-3-chloropropane         0.0240         2.0         0.0700         2         U           1.2-Dichlorobenzene         0.0380         2.0         0.0700         2         U           1.2-Dichlorobenzene         0.0480         1.0         0.0480         2         U           1.2-Dichloropropane         0.0480         1.0         0.0480         2         U           1.3-Dichloropropane         0.0460         2.0         0.0280         2         U           1.3-Dichloropropane         0.0460         1.0         0.0460         2         U           1.3-Dichloropropane         0.0460	1,1-Dichloroethene							
1,2,3-Trichlorobenzene       0.0720       2.0       0.0720       2       U         1,2,3-Trichloropropane       0.0920       2.0       0.0920       2       U         1,2,4-Trichloropropane       0.0500       2.0       0.0500       2       U         1,2,4-Trinethylbenzene       0.0240       2.0       1.04       2       F         1,2-Dibromo-3-chloropropane       0.522       4.0       0.522       2       U         1,2-Dibromo-sthane       0.0700       2.0       0.0700       2       U         1,2-Dichlorobenzene       0.0380       2.0       0.0380       2       U         1,2-Dichlorobenzene       0.0380       2.0       0.0380       2       U         1,2-Dichlorobenzene       0.0480       1.0       0.0480       2       U         1,2-Dichlorobenzene       0.0480       1.0       0.0480       2       U         1,3-Dichlorobenzene       0.0520       2.0       0.0520       2       U         1,3-Dichlorobenzene       0.0400       2.0       0.0460       2       U         1,3-Dichlorobenzene       0.0400       2.0       0.0460       2       U         1,4-Dichlorobenzene       0.	1,1-Dichloropropene							
1.2,3-Trichloropropane       0.0920       2.0       0.0920       2       U         1.2,4-Trichlorobenzene       0.0500       2.0       0.0500       2       U         1.2,4-Trichlorobenzene       0.0240       2.0       1.04       2       F         1.2-Dibromo-3-chloropropane       0.522       4.0       0.522       2       U         1.2-Dibromo-3-chloropropane       0.0700       2.0       0.0700       2       U         1.2-Dichlorobenzene       0.0380       2.0       0.0380       2       U         1.2-Dichlorobenzene       0.0480       1.0       0.0480       2       U         1.2-Dichloropenzene       0.0520       2.0       0.0520       2       U         1.2-Dichloropenzene       0.0480       1.0       0.0480       2       U         1.2-Dichloropenzene       0.0460       1.0       0.0460       2       U         1.3-Dichloropenzene       0.0460       2.0       0.0460       2       U         1.3-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1.4-Dichlorobenzene       0.0340       2.0       0.0340       2       U         2-Dichloropropane <t< td=""><td>1,2,3-Trichlorobenzene</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	1,2,3-Trichlorobenzene							
1.2,4-Trichlorobenzene       0.0500       2.0       0.0500       2       U         1.2,4-Trimethylbenzene       0.0240       2.0       1.04       2       F         1.2-Dibromo-3-chloropropane       0.522       4.0       0.522       2       U         1.2-Dibromoethane       0.0700       2.0       0.0700       2       U         1.2-Dibromoethane       0.0380       2.0       0.0380       2       U         1.2-Dichlorobenzene       0.0380       2.0       0.0380       2       U         1.2-Dichlorobenzene       0.0480       1.0       0.0480       2       U         1.2-Dichloropropane       0.0520       2.0       0.0520       2       U         1.3-5-Trimethylbenzene       0.0260       2.0       0.0260       2       U         1.3-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1.3-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1.4-Dichlorobenzene       0.0460       1.0       0.0340       2       U         1.4-Dichlorobenzene       0.0460       1.0       0.0340       2       U         2.2-Dichloropopane       0.164 <td>1,2,3-Trichloropropane</td> <td></td> <td></td> <td></td> <td>· • • • • • • • • • • • • • • • • • • •</td> <td>·····</td> <td></td> <td></td>	1,2,3-Trichloropropane				· • • • • • • • • • • • • • • • • • • •	·····		
1,2,4-Trimethylbenzene       0.0240       2.0       1.04       2       F         1,2-Dibromo-3-chloropropane       0.522       4.0       0.522       2       U         1,2-Dibromoethane       0.0700       2.0       0.0700       2       U         1,2-Dichlorobenzene       0.0380       2.0       0.0380       2       U         1,2-Dichlorobenzene       0.0380       2.0       0.0380       2       U         1,2-Dichlorobenzene       0.0480       1.0       0.0480       2       U         1,2-Dichloropropane       0.0520       2.0       0.0520       2       U         1,3-5-Trimethylbenzene       0.0460       2.0       0.0260       2       U         1,3-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1,3-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1,3-Dichloropropane       0.0460       1.0       0.0460       2       U         1,4-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1,4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         2,2-Dichloropropane       0.164 <td>1,2,4-Trichlorobenzene</td> <td></td> <td></td> <td></td> <td></td> <td>#</td> <td></td> <td></td>	1,2,4-Trichlorobenzene					#		
1.2-Dibromo-3-chloropropane       0.522       4.0       0.522       2       U         1.2-Dibromoethane       0.0700       2.0       0.0700       2       U         1.2-Dichlorobenzene       0.0380       2.0       0.0380       2       U         1.2-Dichlorobenzene       0.0480       1.0       0.0480       2       U         1.2-Dichloroptopane       0.0480       1.0       0.0480       2       U         1.2-Dichloroptopane       0.0520       2.0       0.0520       2       U         1.3-Dichloroptopane       0.0260       2.0       0.0260       2       U         1.3-Dichloroptopane       0.0400       2.0       0.0400       2       U         1.3-Dichloroptopane       0.0460       1.0       0.0460       2       U         1.4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1.4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1.4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1.4-Dichlorobenzene       0.0340       2.0       0.0940       2       U         2.2-Dichloropropane       0.164	1,2,4-Trimethylbenzene							
1.2-Dibromoethane       0.0700       2.0       0.0700       2       U         1.2-Dichlorobenzene       0.0380       2.0       0.0380       2       U         1.2-Dichloroethane       0.0480       1.0       0.0480       2       U         1.2-Dichloroethane       0.0520       2.0       0.0520       2       U         1.2-Dichloropropane       0.0520       2.0       0.0520       2       U         1.3-Dichlorobenzene       0.0260       2.0       0.0400       2       U         1.3-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1.3-Dichloropropane       0.0460       1.0       0.0460       2       U         1.3-Dichloropropane       0.0460       1.0       0.0460       2       U         1.4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1.4-Dichloropropane       0.164       2.0       0.164       2       U         2.2-Dichloropropane       0.164       2.0       0.164       2       U         2.2-Dichloropropane       0.164       2.0       0.164       2       U         2.2-Chlorotoluene       0.0240       2.0 <td>1,2-Dibromo-3-chloropr</td> <td>opane</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1,2-Dibromo-3-chloropr	opane						
1.2-Dichlorobenzene       0.0380       2.0       0.0380       2       U         1.2-Dichloroethane       0.0480       1.0       0.0480       2       U         1.2-Dichloropropane       0.0520       2.0       0.0520       2       U         1.3-5-Trimethylbenzene       0.0260       2.0       0.0260       2       U         1.3-Dichlorobenzene       0.0400       2.0       0.0400       2       U         1.3-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1.3-Dichloropropane       0.0460       1.0       0.0460       2       U         1.4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1.4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1.4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         2.2-Dichloropropane       0.164       2.0       0.164       2       U         2.2-Dichloropropane       0.164       2.0       0.164       2       U         2.4-Chlorotoluene       0.0240       2.0       0.0240       2       U         4-Chlorotoluene       0.0340       2.0	1,2-Dibromoethane	······································						
1,2-Dichloroethane       0.0480       1.0       0.0480       2       U         1,2-Dichloropropane       0.0520       2.0       0.0520       2       U         1,3,5-Trimethylbenzene       0.0260       2.0       0.0260       2       U         1,3-Dichlorobenzene       0.0400       2.0       0.0400       2       U         1,3-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1,3-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1,4-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1,4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1,4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         2,2-Dichloropropane       0.164       2.0       0.164       2       U         2,2-Dichloropropane       1.30       20       1.30       2       U         2-Butanone       1.30       20       1.30       2       U         2-Chlorotoluene       0.0240       2.0       0.0240       2       U         4-Methyl-2-pentanone       0.750       20	1,2-Dichlorobenzene							
1,2-Dichloropropane       0.0520       2.0       0.0520       2       U         1,3,5-Trimethylbenzene       0.0260       2.0       0.0260       2       U         1,3-Dichlorobenzene       0.0400       2.0       0.0400       2       U         1,3-Dichlorobenzene       0.0400       2.0       0.0400       2       U         1,3-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1,4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1.4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1.4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         2,2-Dichloropropane       0.164       2.0       0.164       2       U         2,2-Dichloropropane       1.30       20       1.30       2       U         2-Sutanone       1.30       2.0       0.0240       2       U         2-Chlorotoluene       0.0240       2.0       0.0240       2       U         4-Methyl-2-pentanone       0.750       20       0.750       2       U         Acetone       1.65       20       1.65	1,2-Dichloroethane							**
1,3,5-Trimethylbenzene       0.0260       2.0       0.0260       2       U         1,3-Dichlorobenzene       0.0400       2.0       0.0400       2       U         1,3-Dichlorobenzene       0.0460       1.0       0.0460       2       U         1,4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1-Chlorobenzene       0.0340       1.0       0.0340       2       U         1-Chlorobenzene       0.0940       2.0       0.0940       2       U         2-Dichloropropane       0.164       2.0       0.164       2       U         2,2-Dichloropropane       0.164       2.0       0.164       2       U         2-Butanone       1.30       20       1.30       2       U         2-Chlorotoluene       0.0240       2.0       0.0240       2       U         4-Chlorotoluene       0.0340       2.0       0.0340       2       U         4-Methyl-2-pentanone       0.750       20       0.750       2       U         Acetone       1.65       20       1.65       2       U         Benzene       0.0200       1.0       0.200       2       F<	1,2-Dichloropropane	······································						
1,3-Dichlorobenzene       0.0400       2.0       0.0400       2       U         1,3-Dichloropropane       0.0460       1.0       0.0460       2       U         1,4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1-Chlorobexane       0.0940       2.0       0.0940       2       U         2,2-Dichloropropane       0.164       2.0       0.164       2       U         2,2-Dichloropropane       0.164       2.0       0.164       2       U         2-Butanone       1.30       20       1.30       2       U         2-Chlorotoluene       0.0240       2.0       0.0240       2       U         4-Chlorotoluene       0.0340       2.0       0.0340       2       U         4-Methyl-2-pentanone       0.0340       2.0       0.0340       2       U         Acetone       1.65       20       1.65       2       U         Benzene       0.0200       1.0       0.200       2       F         Bromobenzene       0.0560       2.0       0.0560       2       U	1,3,5-Trimethylbenzene	}						
1,3-Dichloropropane       0.0460       1.0       0.0460       2       U         1,4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1-Chlorobexane       0.0940       2.0       0.0940       2       U         2,2-Dichloropropane       0.164       2.0       0.164       2       U         2-Butanone       1.30       20       1.30       2       U         2-Chlorotoluene       0.0240       2.0       0.0240       2       U         4-Chlorotoluene       0.0340       2.0       0.0340       2       U         4-Chlorotoluene       0.0340       2.0       0.0340       2       U         4-Chlorotoluene       0.0340       2.0       0.0340       2       U         4-Methyl-2-pentanone       0.750       20       0.750       2       U         Acetone       1.65       20       1.65       2       U         Benzene       0.0200       1.0       0.200       2       F         Bromobenzene       0.0560       2.0       0.0560       2       U	1,3-Dichlorobenzene							
1.4-Dichlorobenzene       0.0340       1.0       0.0340       2       U         1-Chlorohexane       0.0940       2.0       0.0940       2       U         2,2-Dichloropropane       0.164       2.0       0.164       2       U         2-Butanone       1.30       20       1.30       2       U         2-Chlorotoluene       0.0240       2.0       0.0240       2       U         4-Chlorotoluene       0.0340       2.0       0.0340       2       U         4-Chlorotoluene       0.0340       2.0       0.0340       2       U         4-Methyl-2-pentanone       0.750       20       0.750       2       U         Acetone       1.65       20       1.65       2       U         Benzene       0.0200       1.0       0.200       2       F         Bromobenzene       0.0560       2.0       0.0560       2       U	1,3-Dichloropropane	A		1000				
1-Chlorohexane       0.0940       2.0       0.0940       2       U         2,2-Dichloropropane       0.164       2.0       0.164       2       U         2-Butanone       1.30       20       1.30       2       U         2-Chlorotoluene       0.0240       2.0       0.0240       2       U         4-Chlorotoluene       0.0340       2.0       0.0340       2       U         4-Methyl-2-pentanone       0.750       20       0.750       2       U         Acetone       1.65       20       1.65       2       U         Benzene       0.0200       1.0       0.200       2       F         Bromobenzene       0.0560       2.0       0.0560       2       U	1,4-Dichlorobenzene							
2,2-Dichloropropane       0.164       2.0       0.164       2       U         2-Butanone       1.30       20       1.30       2       U         2-Chlorotoluene       0.0240       2.0       0.0240       2       U         4-Chlorotoluene       0.0340       2.0       0.0340       2       U         4-Methyl-2-pentanone       0.750       20       0.750       2       U         Acetone       1.65       20       1.65       2       U         Benzene       0.0200       1.0       0.200       2       F         Bromobenzene       0.0560       2.0       0.0560       2       U	1-Chlorohexane			······				
2-Butanone         1.30         20         1.30         2         U           2-Chlorotoluene         0.0240         2.0         0.0240         2         U           4-Chlorotoluene         0.0340         2.0         0.0340         2         U           4-Chlorotoluene         0.0340         2.0         0.0340         2         U           4-Methyl-2-pentanone         0.750         20         0.750         2         U           Acetone         1.65         20         1.65         2         U           Benzene         0.0200         1.0         0.200         2         F           Bromobenzene         0.0560         2.0         0.0560         2         U           Bromochloromethane         0.118         2.0         0.118         2         U	2,2-Dichloropropane	······································				www.ana		
2-Chlorotoluene         0.0240         2.0         0.0240         2         U           4-Chlorotoluene         0.0340         2.0         0.0340         2         U           4-Methyl-2-pentanone         0.750         20         0.750         2         U           Acetone         1.65         20         1.65         2         U           Benzene         0.0200         1.0         0.200         2         F           Bromobenzene         0.0560         2.0         0.0560         2         U           Bromochloromethane         0.118         2.0         0.118         2         U	2-Butanone	<b>Ang 1</b>						
4-Chlorotoluene         0.0340         2.0         0.0340         2         U           4-Methyl-2-pentanone         0.750         20         0.750         2         U           Acetone         1.65         20         1.65         2         U           Benzene         0.0200         1.0         0.200         2         F           Bromobenzene         0.0560         2.0         0.0560         2         U           Bromochloromethane         0.118         2.0         0.118         2         U	2-Chlorotoluene	······································			·			
4-Methyl-2-pentanone         0.750         20         0.750         2         U           Acetone         1.65         20         1.65         2         U           Benzene         0.0200         1.0         0.200         2         F           Bromobenzene         0.0560         2.0         0.0560         2         U           Bromochloromethane         0.118         2.0         0.118         2         U	4-Chlorotoluene			0.0340				
Acetone         1.65         20         1.65         2         U           Benzene         0.0200         1.0         0.200         2         F           Bromobenzene         0.0560         2.0         0.0560         2         U           Bromochloromethane         0.118         2.0         0.118         2         U	4-Methyl-2-pentanone		*******					
Benzene         0.0200         1.0         0.200         2         F           Bromobenzene         0.0560         2.0         0.0560         2         U           Bromochloromethane         0.118         2.0         0.118         2         U	Acetone							
Bromobenzene         0.0560         2.0         0.0560         2         U           Bromochloromethane         0.118         2.0         0.118         2         U	Benzene							
Bromochloromethane 0.118 2.0 0.118 2 U	Bromobenzene							
	Bromochloromethane						·	
0.0620 1.0 0.0620 2 H	Bromodichloromethane			0.0620	1.0	0.0620	2	U
Bromoform 0.0940 2.0 0.0940 2 U	Bromoform		,			P.2010.01.01.01.01.01.01.01.01.01.01.01.01.		

Comments:

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Analytical Method:	SW8260B	Preparatory Method:		AAB #:	E	<u> 16783</u>	
Lab Name:	Life Science Laborat	ories, Inc.	Contract #:				
Field Sample ID:	TF3M2114PA	Lab Sample ID:	0609018-0	<u>02A</u> Ma	atrix:	Groundwater	
% Solids:	<u>0</u>	Initial Calibration ID:	663	File ID:	J0073.D		
Date Received:	<u>27-Sep-06</u>	Date Extracted:		Date An	alyzed:	02-Oct-06	
Concentration Units	(ug/L or mg/Kg dry w	eight): <u>µq/L</u>		Sample	-		
	Analyte			-			
Bromomethane	An and the	0.118	RL - 6.0	Concentration 0.118	Dilutio		
Carbon tetrachloride	······································	0.0640	2.0		2	U	1
Chlorobenzene		0.0840	1.0	0.0640	2	<u> </u>	4
Chloroethane		0.0220	2.0	0.0220	2	U	
Chloroform		0.0580	1.0	0.0580	2	U	l
Chloromethane		0.0580	2.0	0.0580	2	<u>U</u>	ł
cis-1,2-Dichloroethene		0.252	2.0	0.0640	2	<u> </u>	-
cis-1,3-Dichloropropen	/////	0.0340	1.0	0.0420	2	U U	ļ
Dibromochloromethan		0.0820	1.0	0.0820	2		
Dibromomethane		0.0760	2.0	0.0760	2		
Dichlorodifluoromethar	ne	0.134	2.0	0.134	2		
Ethylbenzene		0.0480	2.0	0.0480	2	U	
Hexachlorobutadiene		0.122	1.2	0.122	2	U	
Isopropylbenzene		0.0420	2.0	62.9	2		* this
Methyl tert-butyl ether		0.0500	10	0.0500	2		-the
Methylene chloride	· / /	0.0680	2.0	0.0680	2		MYC
n-Butylbenzene	······	0.0260	2.0	3.20	2		<u></u> তিম
n-Propylbenzene		0.0180	2.0	10.2	2		
Naphthalene		0.0480	2.0	3.26	2		
o-Xylene		0.0280	2.0	0.0280	2	U	
p-Isopropyltoluene		0.0280	2.0	4.10	2		
sec-Butylbenzene	······································	0.0340	2.0	5.06	2		
Styrene		0.0400	2.0	0.0400	2		
tert-Butylbenzene		0.0320	2.0	1.84	2	F	
Tetrachloroethene		0.0600	2.0	0.0600	2	U	
Toluene		0.0360	2.0	0.0360	2		
trans-1,2-Dichloroethe	ne	0.0540	2.0	0.0540	2		
trans-1,3-Dichloroprop	ene	0.0580	2.0	0.0580	2		
Trichloroethene		0.0540	2.0	0.0540	2		
Trichlorofluoromethane	•	0.0400	2.0	0.0400	2		
Vinyl chloride		0.0760	2.0	0.0760	2		
Xylenes (total)		0.0840	4.0	1.12	2	F	

Comments:

\*ferilt transferred to original semple TF32114PA(1:1)

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Analytical Method:	<u>SW8260B</u>	Preparatory Method	9:	AAB #:	<u>R6783</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract #:		
Field Sample ID:	TF3M2114PA	Lab Sample ID:	0609018-002A	Matrix:	Groundwater
% Solids:	Q	Initial Calibration IE	): <u>663</u>	File ID: J0073.	D
Date Received:	<u>27-Sep-06</u>	Date Extracted:		Date Analyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight)	: <u>µg/L</u>		Sample Size:	10 mL
	Surrogate	Reco	very Control Li	mits Qualifier	
1,2-Dich	loroethane-d4	90	) 72 - 119	9	

T,Z-Dichloroethane-d4	90	72 - 119	
4-Bromofluorobenzene	108	76 - 119	
Dibromofluoromethane	98	85 - 115	
Toluene-d8	112	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	499017	178690 - 714758	
Chlorobenzene-d5	532900	199960 - 799842	
Fluorobenzene	1547334	571263 - 2285052	
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## Comments:

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Analytical Method:	<u>SW8260B</u>	Preparatory Method:		AAB #:	]	R6783
Lab Name:	Life Science Laboratories, Inc.		Contract #:			
Field Sample ID:	TF3M11614PA	Lab Sample ID:	0609018-003	<u>A</u> 翻	atrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID:	<u>663</u>	File ID:	J0060.D	
Date Received:	<u>27-Sep-06</u>	Date Extracted:		Date An	alvzed:	02-Oct-06
Concentration Units (	ug/L or mg/Kg dry weight	): µg/L	·		•	
	Analyte	MDL	RL	Sample Concentration		10 mL n Qualifier
(m+p)-Xylene	,	0.0280	2.0	0.0280	1	U
1,1,1,2-Tetrachloroetha	BNe	0.0540	0.50	0.0540	1	U U
1,1,1-Trichloroethane		0.0150	1.0	0.0150	1	U
1,1,2,2-Tetrachloroetha	3ne	0.0810	0.50	0.0810		
1,1,2-Trichloroethane	· · · · · · · · · · · · · · · · · · ·	0.0280	1.0	0.0280	1	
1,1-Dichloroethane		0.0330	1.0	0.0330	1	U
1,1-Dichloroethene		0.0460	1.0	0.0460	1	
1,1-Dichloropropene		0.0240	1.0	0.0240	1	
1,2,3-Trichlorobenzene	······	0.0360	1.0	0.0360	1	
1,2,3-Trichloropropane		0.0460	1.0	0.0460	1	
1,2,4-Trichlorobenzene		0.0250	1.0	0.0250	1	
1,2,4-Trimethylbenzene	3	0.0120	1.0	0.0120	1	
1,2-Dibromo-3-chlorop		0.261	2.0	0.261	1	- U
1,2-Dibromoethane		0.0350	1.0	0.0350	1	- U
1,2-Dichlorobenzene		0.0190	1.0	0.0190	1	- U
1,2-Dichloroethane		0.0240	0.50	0.0240	1	
1,2-Dichloropropane		0.0260	1.0	0.0260	1	
1,3,5-Trimethylbenzene	9	0.0130	1.0	0.0130	1	- U
1,3-Dichlorobenzene	······································	0.0200	1.0	0.0200	1	U
1,3-Dichloropropane		0.0230	0.50	0.0230	1	U
1,4-Dichlorobenzene	······································	0.0170	0.50	0.0170	1	U
1-Chlorohexane		0.0470	1.0	0.0470	1	
2,2-Dichloropropane		0.0820	1.0	0.0820	1	U
2-Butanone	,,,////	0.649	10	0.649	1	U
2-Chlorotoluene	P.A.P.	0.0120	1.0	0.0120	1	υ
4-Chlorotoluene		0.0170	1.0	0.0170	1	U
4-Methyl-2-pentanone		0.375	10	0.375	1	U
Acetone		0.823	10	0.823	1	U
Benzene		0.0100	0.50	0.0100	1	Ū
Bromobenzene	· · · · · · · · · · · · · · · · · · ·	0.0280	1.0	0.0280	1	U
Bromochloromethane		0.0590	1.0	0.0590	1	U
Bromodichloromethane	3	0.0310	0.50	0.0310	1	U
Bromoform		0.0470	1.0	0.0470	1	U

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Comments:

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Lab Name: Li	ife Science Laboratories, I					
		nc.	Contract #:			
Field Sample ID: 1	F3M11614PA	Lab Sample ID:	0609018-003	A Ma	trix:	Groundwater
% Solids: <u>0</u>	!	Initial Calibration ID:	<u>663</u>	File ID:	J0060.D	
Date Received: 2	7-Sep-06	Date Extracted:		Date Ana	lyzed:	02-Oct-06
Concentration Units (ug	/L or mg/Kg dry weight):	<u>нд/I</u>		Sample 5	Size	10 mL
	Analyte	MDL	RL	Concentration	Dilutio	
Bromomethane		0.0590	3.0	0.0590	1	U
Carbon tetrachloride		0.0320	1.0	0.0320	1	
Chlorobenzene		0.0110	0.50	0.0110	1	U U
Chloroethane		0.116	1.0	0.116	1	
Chloroform		0.0290	0.50	0.0290	1	U U
Chloromethane		0.126	1.0	0.126	1	- U
cis-1,2-Dichloroethene		0.0320	1.0	0.0320	1	<u> </u>
cis-1,3-Dichloropropene		0.0210	0.50	0.0210	1	U
Dibromochloromethane	**************************************	0.0410	0.50	0.0410	1	U
Dibromomethane		0.0380	1.0	0.0380	1	<u> </u>
Dichlorodifluoromethane		0.0670	1.0	0.0670	1	- U
Ethylbenzene		0.0240	1.0	0.0240	1	U U
Hexachlorobutadiene		0.0610	0.60	0.0610	1	U
Isopropylbenzene		0.0210	1.0	7.44	1	
Methyl tert-butyl ether		0.0250	5.0	0.0250	1	
Methylene chloride		0.0340	1.0	0.0340	4	Ū
n-Butylbenzene		0.0130	1.0	1.80	1	
n-Propylbenzene		0.00900	1.0	4.18	1	
Naphthalene		0.0240	1.0	0.0240	1	U
o-Xylene		0.0140	1.0	0.0140	1	U
p-Isopropyltoluene		0.0140	1.0	0.0140	1	Ū
sec-Butylbenzene		0.0170	1.0	4.03	1	
Styrene		0.0200	1.0	0.0200	1	U
tert-Butylbenzene		0.0160	1.0	1.54	1	
Tetrachloroethene		0.0300	1.0	0.0300	1	U
Toluene		0.0180	1.0	0.0180	1	U
trans-1,2-Dichloroethene		0.0270	1.0	0.0270	1	Ū
trans-1,3-Dichloropropene	9	0.0290	1.0	0.0290	1	Ū
Trichloroethene	·······	0.0270	1.0	0.0270	1	U
Trichlorofluoromethane		0.0200	1.0	0.0200	1	U
Vinyl chloride		0.0380	1.0	0.0380	1	U
Xylenes (total)		0.0420	2.0	0.0420	1	U

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Analytical Method:	SW8260B	Preparatory Method:		AAB #:	<u>R6783</u>
Lab Name:	Life Science Laboratories.	Inc. C	Inc. Contract #:		
Field Sample ID:	TF3M11614PA	Lab Sample ID:	0609018-003A	Matrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID:	663	File ID: J0060.	D
Date Received:	27-Sep-06	Date Extracted:		Date Analyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight	): <u>µg/L</u>		Sample Size:	10 mL
	Surrogate	Recovery	Control Limits	Qualifier	
1,2-Dict	loroethane-d4	94	72 - 119		
4-Brome	ofluorobenzene	106	76 - 119		
Dibromo	ofluoromethane	99	85 - 115		
Toluene	-d8	118	81 - 120		
		······································			

Internal Std	Area Counts	Area Count Limits	Qualifier	~ 1
1,4-Dichlorobenzene-d4	470281	178690 - 714758		WH
Chlorobenzene-d5	495443	199960 - 799842		1.12/01
Fluorobenzene	1424548	571263 - 2285052		17 5 106

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Analytical Method:	<u>SW8260B</u>	Preparate	ory Method:		AAB #:	RE	783
Lab Name:	Life Science Laboratories,	Inc.		Contract #:			
Field Sample ID:	TF3M11713PA	Lab Sam	ple ID:	0609018-0	<u></u>	trix: (	Groundwater
% Solids:	<u>0</u>	Initial Ca	libration ID:	<u>663</u>	File ID:	J0061.D	
Date Received:	27-Sep-06	Date Ext	racted:		Date Ana	lvzed: (	)2-Oct-06
Concentration Units (	ug/L or mg/Kg dry weight	): µ	g/L	·			10 mL
	Analyte		MOL	RL	Sample	Dilution	Qualifier
(m+p)-Xylene			0.0280	2.0	0.0280	1	U
1,1,1,2-Tetrachloroetha	ane		0.0540	0.50	0.0540	1	U U
1,1,1-Trichloroethane			0.0150	1.0	0.0150	1	U
1,1,2,2-Tetrachloroetha	ane		0.0810	0.50	0.0810	1	<u> </u>
1,1,2-Trichloroethane			0.0280	1.0	0.0280	1	U
1,1-Dichloroethane			0.0330	1.0	0.0330	1	U
1,1-Dichloroethene			0.0460	1.0	0,0460	1	U
1,1-Dichloropropene		· · · · · · · · · · · · · · · · · · ·	0.0240	1.0	0.0240	1	U
1,2,3-Trichlorobenzene	)		0.0360	1.0	0.0360	1	U
1,2,3-Trichloropropane			0.0460	1.0	0.0460	1	U
1,2,4-Trichlorobenzene	)		0.0250	1.0	0.0250	1	U
1,2,4-Trimethylbenzen	8		0.0120	1.0	0.0120	1	U
1,2-Dibromo-3-chlorop	ropane		0.261	2.0	0.261	1	U
1,2-Dibromoethane			0.0350	1.0	0.0350	1	U
1,2-Dichlorobenzene			0.0190	1.0	0.0190	1	U
1,2-Dichloroethane			0.0240	0.50	0.0240	1	U
1,2-Dichloropropane			0.0260	1.0	0.0260	1	U
1,3,5-Trimethylbenzen	8		0.0130	1.0	0.0130	1	U
1,3-Dichlorobenzene			0.0200	1.0	0.0200	1	U
1,3-Dichloropropane	ης <u>πολογού</u> ταται το		0.0230	0.50	0.0230	1	U
1,4-Dichlorobenzene			0.0170	0.50	0.0170	1	U
1-Chlorohexane			0.0470	1.0	0.0470	1	U
2,2-Dichloropropane			0.0820	1.0	0.0820	1	U
2-Butanone			0.649	10	0.649	1	U
2-Chlorotoluene			0.0120	1.0	0.0120	1	U
4-Chlorotoiuene			0.0170	1.0	0.0170	1	U
4-Methyl-2-pentanone			0.375	10	0.375	1	U
Acetone			0.823	10	0.823	1	U
Benzene			0.0100	0.50	0.120	1	F
Bromobenzene			0.0280	1.0	0.0280	1	U
Bromochloromethane			0.0590	1.0	0.0590	1	U
Bromodichloromethane	3		0.0310	0.50	0.0310	1	U
Bromoform			0.0470	1.0	0.0470	1	U

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Analytical Method:	<u>SW8260B</u>	Preparatory Method	:	AAB #:	l	R6783
Lab Name:	Life Science Laborate	ories, Inc.	Contract #:			
Field Sample ID:	TF3M11713PA	Lab Sample ID:	0609018-0	<u>)04A</u> M	atrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID	<u>663</u>	File ID:	J0061.D	
Date Received:	<u>27-Sep-06</u>	Date Extracted:		Date An	alyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry w	light): yg/L		Sample	Size	10 mL
		MDL	RL	Concentration		
Bromomethane	Palatyle	0.0590	3.0	0.0590	1	U
Carbon tetrachloride		0.0320	1.0	0.0320	1	
Chlorobenzene		0.0320	0.50	0.0320	1	U
Chloroethane		0.0116	1.0	0.116	1	
Chloroform		0.0290	0.50	0.0290	1	U
Chloromethane		0.126	1.0	0.126	1	U
cis-1.2-Dichloroethene	3	0.0320	1.0	0.200	1	F
cis-1,3-Dichloroproper	••••••••••••••••••••••••••••••••••••••	0.0320	0.50	0.0210	1	U I
Dibromochloromethan		0.0210	0.50	0.0410	1	U
Dibromomethane		0.0380	1.0	0.0380	1	
Dichlorodifluorometha	ne	0.0670	1.0	0.0670	1	
Ethylbenzene		0.0240	1.0	0.0240	1	U U
Hexachlorobutadiene		0.0610	0.60	0.0610		
Isopropylbenzene		0.0210	1.0	0.150	1	
Methyl tert-butyl ether		0.0250	5.0	0.0250	1	
Methylene chloride		0.0340	1.0	0.0340	1	
n-Butylbenzene	1/2//A/A	0.0130	1.0	0.0130	1	U
n-Propylbenzene		0.00900	1.0	0.00900	1	
Naphthalene		0.0240	1.0	0.0240	1	U U
o-Xylene	,,	0.0140	1.0	0.0140	1	U
p-isopropyitoluene		0.0140	1.0	0.0140	1	U
sec-Butylbenzene		0.0170	1.0	0.550	1	
Styrene		0.0200	1.0	0.0200	1	
tert-Butylbenzene		0.0160	1.0	1.36	1	
Tetrachloroethene		0.0300	1.0	0.0300	1	U
Toluene	M*//II.A	0.0180	1.0	0.0180	1	U
trans-1,2-Dichloroethe	ne	0.0270	1.0	0.0270	1	U
trans-1,3-Dichloroprop	oene	0.0290	1.0	0.0290	1	Ū
Trichloroethene		0.0270	1.0	0.0270	1	U
Trichlorofluoromethan	ê	0.0200	1.0	0.0200	1	U
Vinyl chloride		0.0380	1.0	0.0380	1	U
Xylenes (total)		0.0420	2.0	0.0420	1	U

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Analytical Method:	<u>SW8260B</u>	Preparatory Method:		AAB #:	<u>R6783</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract #:		
Field Sample ID:	TE3M11713PA	Lab Sample ID:	0609018-004A	Matrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID:	<u>663</u>	File ID: J0061.E	)
Date Received:	<u>27-Sep-06</u>	Date Extracted:		Date Analyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight)	μ <u>α/L</u>		Sample Size:	10 mL
	Surrogate	Recove	ery Control Lim	its Qualifier	
1,2-Dich	loroethane-d4	91	72 - 119		
4-Bromo	fluorobenzene	113	76 - 119		
Dibromo	fluoromethane	99	85 - 115		
Toluene	-d8	106	81 - 120		

I,4-Dichlorobenzene-d4 Chlorobenzene-d5	476489	178690 - 714758	
Fluorobenzene		199960 - 799842	 1
Tuoropenzene	1495789	571263 - 2285052	WH

Comments:

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Analytical Method:	<u>SW8260B</u>	Preparat	ory Method:		AAB #:	F	6783
Lab Name:	Life Science Laborator	ies, Inc.		Contract #:	×		
Field Sample ID:	TF3M119R12PA	Lab Sam	ple ID:	0609018-00	<u>)5A</u> M	atrix:	Groundwater
% Solids:	<u>0</u>	Initial Ca	libration ID:	<u>663</u>	File ID:	J0062.D	
Date Received:	27-Sep-06	Date Ext	racted:		Date An	alvzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry wei		g/L			•	
		9my. <u>P</u>			Sample		10 mL
(m+p)-Xylene	Analyte		MDL	RL	Concentration	Dilution	
1,1,1,2-Tetrachloroeth			0.0280	2.0	0.0280	1	U
1,1,1-Trichloroethane			0.0540	0.50	0.0540	1	U
1,1,2,2-Tetrachloroeth	·····		0.0150	1.0	0.0150	1	U
	ane		0.0810	0.50	0.0810	1	U
1,1,2-Trichloroethane			0.0280	1.0	0.0280	1	<u> </u>
1,1-Dichloroethane		/	0.0330	1.0	0.0330	1	U
1,1-Dichloroethene			0.0460	1.0	0.0460	1	U
1,1-Dichloropropene			0.0240	1.0	0.0240	1	U
1,2,3-Trichlorobenzen			0.0360	1.0	0.0360	1	U
1,2,3-Trichloropropane			0.0460	1.0	0.0460	1	U
1,2,4-Trichlorobenzene			0.0250	1.0	0.0250	1	U
1,2,4-Trimethylbenzen			0.0120	1.0	0.0120	1	U
1,2-Dibromo-3-chlorop	ropane		0.261	2.0	0.261	1	U
1,2-Dibromoethane			0.0350	1.0	0.0350	1	U
1,2-Dichlorobenzene			0.0190	1.0	0.0190	1	U
1,2-Dichloroethane			0.0240	0.50	0.0240	1	U
1,2-Dichloropropane			0.0260	1.0	0.0260	1	U
1,3,5-Trimethylbenzen	e		0.0130	1.0	0.0130	1	U
1,3-Dichlorobenzene			0.0200	1.0	0.0200	1	U
1,3-Dichloropropane			0.0230	0.50	0.0230	1	υ・
1,4-Dichlorobenzene	//////////////////////////////////////		0.0170	0.50	0.0170	1	υ
1-Chlorohexane			0.0470	1.0	0.0470	1	U
2,2-Dichloropropane		·····	0.0820	1.0	0.0820	1	Ū
2-Butanone			0.649	10	0.649	1	U
2-Chlorotoluene			0.0120	1.0	0.0120	1	Ū
4-Chlorotoluene	······································		0.0170	1.0	0.0170	1	Ū
4-Methyl-2-pentanone	······································		0.375	10	0.375	1	U
Acetone			0.823	10	2.22	1	F
Benzene			0.0100	0.50	0.0100	1	U
Bromobenzene	No		0.0280	1.0	0.0280	1	U
Bromochloromethane			0.0590	1.0	0.0590	1	U
Bromodichloromethan	e		0.0330	0.50	0.0310	1	U
Bromoform			0.0470	1.0	0.0310		
Cromonte:			0.0470	1.0	0.0470	1	<u> </u>

Comments:

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Analytical Method:	SW8260B	Preparatory Method	:	AAB #:	R	6783
Lab Name:	Life Science Laborato	ies, Inc.	Contract #:			
Field Sample ID:	TF3M119R12PA	Lab Sample ID:	0609018-00	5 <u>A</u> Ma	itrix:	Groundwater
% Solids:	0	Initial Calibration ID	: <u>663</u>	File ID:	J0062.D	
Date Received:	27-Sep-06	Date Extracted:		Date Ana	alyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry wei	ght): <u>µg/L</u>		Sample	Sizo.	10 mL
	Analyte	MDL	RL	Concentration	Dilution	
Bromomethane		0.0590	3.0	0.0590	1	U
Carbon tetrachloride		0.0320	1.0	0.0320	1	U
Chlorobenzene		0.0110	0.50	0.0110	1	U
Chloroethane		0.116	1.0	0.116	1	U U
Chloroform	, , , , , , , , , , , , , , , , , , ,	0.0290	0.50	0.0290	1	U
Chloromethane		0.126	1.0	0.126	1	U
cis-1,2-Dichloroethene	9	0.0320	1.0	0.0320	1	Ū
cis-1,3-Dichloroproper		0.0210	0.50	0.0210	1	Ū
Dibromochloromethan		0.0410	0.50	0.0410	1	U
Dibromomethane		0.0380	1.0	0.0380	1	U
Dichlorodifluorometha	пе	0.0670	1.0	0.0670	1	U
Ethylbenzene		0.0240	1.0	0.0240	1	U
Hexachlorobutadiene		0.0610	0.60	0.0610	1	U
Isopropylbenzene		0.0210	1.0	0.0210	1	U
Methyl tert-butyl ether		0.0250	5.0	0.0250	1	U
Methylene chloride		0.0340	1.0	0.0340	1	U
n-Butylbenzene		0.0130	1.0	0.0130	1	U
n-Propylbenzene		0.00900	1.0	0.00900	1	U
Naphthalene		0.0240	1.0	0.0240	1	U
o-Xylene		0.0140	1.0	0.0140	1	U
p-Isopropyitoluene		0.0140	1.0	0.0140	1	υ
sec-Butylbenzene		0.0170	1.0	0.0170	1	U
Styrene		0.0200	1.0	0.0200	1	U
tert-Butylbenzene		0.0160	1.0	0.600	1	F
Tetrachioroethene		0.0300	1.0	0.0300	1	U
Toluene		0.0180	1.0	0.0180	1	U
trans-1,2-Dichloroethe	ne	0.0270	1.0	0.0270	1	U
trans-1,3-Dichloroprop	репе	0.0290	1.0	0.0290	1	U
Trichloroethene		0.0270	1.0	0.0270	1	U
Trichlorofluoromethan	e	0.0200	1.0	0.0200	1	U
Vinyl chloride		0.0380	1.0	0.0380	1	U
Xylenes (total)		0.0420	2.0	0.0420	1	U

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Analytical Method:	<u>SW8260B</u>	Preparatory Method:		AAB #:	<u>R6783</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract #:		
Field Sample ID:	TF3M119R12PA	Lab Sample ID:	0609018-005A	Matrix:	Groundwater
% Solids:	Q	Initial Calibration ID:	<u>663</u>	File ID: J0062.	D
Date Received:	27-Sep-06	Date Extracted:		Date Analyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight)	: <u>μg/L</u>		Sample Size:	10 mL
	Surrogate	Recover	y Control Limits	Qualifier	
1,2-Dich	loroethane-d4	92	72 - 119		
4-Bromo	fluorobenzene	105	76 - 119		
Dibromo	fluoromethane	99	85 - 115		
Toluene	-d8	111	81 - 120		a i Filos di William

		Area Count Limits Qualifier
1,4-Dichlorobenzene-d4	466214	178690 - 714758
Chlorobenzene-d5	510677	199960 - 799842
Fluorobenzene	1529776	571263 - 2285052

WH 11/3/06

Analytical Method:	SW8260B	Preparat	ory Method:		AAB #:	F	<u>R6783</u>
Lab Name:	Life Science Laboratories	Inc.		Contract #:			
Field Sample ID:	TF3M121R12PA	Lab Sam	ple ID:	0609018-0	<u>)06A</u> M	atrix:	Groundwater
% Solids:	<u>0</u>	Initial Ca	libration ID:	<u>663</u>	File ID:	J0063.D	
Date Received:	27-Sep-06	Date Ext	racted:		Date An	abord.	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight		g/L				02-001-00
		/· P			Sample	CIE/ ACCOMMEND IN COMMENDIA IN THE ADDRESS	10 mL
(m+p)-Xylene	Analyte		MDL	RL.	Concentration	Dilution	Qualifier
1,1,1,2-Tetrachloroeth	200		0.0280	2.0	0.0280	1	U
1,1,1-Trichloroethane	2115		0.0540	0.50	0.0540	1	U
1,1,2,2-Tetrachloroetha			0.0150	1.0	0.0150	1	U
1,1,2-Trichloroethane			0.0810	0.50	0.0810	1	U
1,1-Dichloroethane			0.0280	1.0	0.0280	1	U
1.1-Dichloroethene			0.0330	1.0	0.0330	1	U
1,1-Dichloropropene			0.0460	1.0	0.0460	1	U
1,2,3-Trichlorobenzene			0.0240	1.0	0.0240	1	U
1,2,3-Trichloropropane			0.0360	1.0	0.0360	1	U
1,2,4-Trichlorobenzene			0.0460	1.0	0.0460	1	U
			0.0250	1.0	0.0250	1	U
1,2,4-Trimethylbenzene			0.0120	1.0	0.0120	1	U
1,2-Dibromo-3-chloropi	ropane		0.261	2.0	0.261	1	U
1,2-Dibromoethane			0.0350	1.0	0.0350	1	U
1,2-Dichlorobenzene	4		0.0190	1.0	0.0190	1	U
1,2-Dichloroethane			0.0240	0.50	0.0240	1	U
1,2-Dichloropropane	·····		0.0260	1.0	0.0260	1	U
1,3,5-Trimethylbenzene	2		0.0130	1.0	0.0130	1	U
1,3-Dichlorobenzene	······································		0.0200	1.0	0.0200	1	U
1,3-Dichloropropane			0.0230	0.50	0.0230	1	Ū
1,4-Dichlorobenzene			0.0170	0.50	0.0170	1	U
1-Chlorohexane			0.0470	1.0	0.0470	1	U
2,2-Dichloropropane			0.0820	1.0	0.0820	1	U
2-Butanone			0.649	10	0.649	1	U
2-Chlorotoluene			0.0120	1.0	0.0120	1	U U
4-Chlorotoluene			0.0170	1.0	0.0170	1	U
4-Methyl-2-pentanone			0.375	10	0.375	1	
Acetone			0.823	10	0.823	1	U
Benzene			0.0100	0.50	0.0100	1	U
Bromobenzene			0.0280	1.0	0.0280	1	U
Bromochloromethane			0.0590	1.0	0.0590	1	U
Bromodichloromethane			0.0310	0.50	0.0310	1	U
Bromoform			0.0470	1.0	0.0470	1	U
omments:					0.0110	1	<u> </u>

Comments:

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Analytical Method:	SW8260B	Preparatory Method		AAB #:		<u>R6783</u>
Lab Name:	Life Science Laborator	ies, Inc.	Contract #:			
Field Sample ID:	TF3M121R12PA	Lab Sample ID:	0609018-00	<u>)6A</u> M	atrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID:	<u>663</u>	File ID:	J0063.D	•
Date Received:	27-Sep-06	Date Extracted:		Date An	alyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry wei	ght): <u>va/L</u>		Comple	Cine	10 mL
	Analyie		-	Sample		
Bromomethane	Patatyte	MDL	RL	Concentration	<u> </u>	
Carbon tetrachloride		0.0590	3.0	0.0590	1	U
Chlorobenzene		0.0320	1.0	0.0320	1	U
Chloroethane		0.0110	0.50	0.0110	1	U
Chloroform		0.116	1.0	0.116	1	U
Chloromethane		0.0290	0.50	0.0290	1	U
cis-1.2-Dichloroethene	N	······	1.0		1	
cis-1,3-Dichloroproper		0.0320	1.0	0.0320	1	U
Dibromochloromethan		0.0210	0.50	0.0210		U
Dibromomethane	6	0.0410	0.50	0.0410	1	U
Dichlorodifluorometha	<b>n</b> a	0.0380	1.0	0.0380	1	<u> </u>
Ethylbenzene		0.0670	1.0	0.0670	1	U
Hexachlorobutadiene		0.0240	1.0	0.0240	1	U
Isopropylbenzene		0.0610	0.60	0.0610		<u> </u>
Methyl tert-butyl ether		0.0210	1.0	0.0210	1	U
Methylene chloride		0.0250	5.0	0.0250	1	<u> </u>
n-Butylbenzene		0.0340	1.0	0.0340	1	U
n-Propylbenzene		0.0130	1.0	0.0130	1	<u> </u>
Naphthalene		0.00900	1.0	0.00900	1	U
o-Xylene	,	0.0240	1.0	0.0240		U
p-Isopropyitoluene	ничения на полно на п	0.0140	1.0	0.0140	1	U
sec-Butylbenzene	······	0.0140	1.0	0.0140	1	U U
Styrene	· · · · · · · · · · · · · · · · · · ·	0.0170		0.0200		
tert-Butylbenzene	///////////////////////////////////////	0.0200	1.0		1	U
Tetrachloroethene		0.0160	1.0	0.0160	1	U
Toluene		0.0300	1.0	0.0300	1	U
trans-1,2-Dichloroethe	200	0.0180	1.0	0.0180	1	U
trans-1,3-Dichloroprop	-	0.0270	1.0	0.0270	1	U
Trichloroethene		0.0290	1.0	0.0290	1	U
Trichlorofluoromethan	A	0.0270	1.0	1.20	1	
Vinyl chloride	C	0.0200	1.0	0.0200	1	<u> </u>
		0.0380	1.0	0.0380	1	<u> </u>
Xylenes (total)		0.0420	2.0	0.0420	1	U

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W8260B	Preparatory Method:		AAB #:	<u>R6783</u>
ife Science Laboratories, I	nc.	Contract #:		
F3M121R12PA	Lab Sample ID:	0609018-006A	Matrix:	Groundwater
	Initial Calibration ID:	<u>663</u>	File ID: J0063.	D
7 <u>-Sep-06</u>	Date Extracted:		Date Analyzed:	02-Oct-06
/L or mg/Kg dry weight):	<u>µg/L</u>		Sample Size:	10 mL
Surrogate	Recove	ry Control Limits	a Qualifier	
ethane-d4	94	72 - 119		
probenzene	105	76 - 119		
promethane	97	85 - 115		
	102	81 - 120		
	<u>e Science Laboratories, I</u> 3M121R12PA <u>-Sep-06</u> L or mg/Kg dry weight): Surrogate ethane-d4 robenzene	<u>e Science Laboratories, Inc.</u> <u>SM121R12PA</u> Lab Sample ID: Initial Calibration ID: <u>Sep-06</u> Date Extracted: L or mg/Kg dry weight): <u>Ug/L</u> <u>Surrogate</u> ethane-d4 robenzene 105 romethane 97	Endpointing       Contract #:         Contract #:       Initial Calibration ID:         Contract #:       Contract #:         Contract #:       Up         Lot mg/Kg dry weight):       Up(I.)         Surrogate       Recovery       Control Limits         ethane-d4       94       72 - 119         robenzene       105       76 - 119         romethane       97       85 - 115	initial Calibration ID:       663       Matrix:         Initial Calibration ID:       663       File ID:       J0063.         Sep-06       Date Extracted:       Date Analyzed:       Date Analyzed:         L or mg/Kg dry weight):       µg/L       Sample Size:         Surrogate       Recovery       Control Limits       Qualifier         robenzene       105       76 - 119

Internal Std	Area Counts	Area Count Limits	Qualifier	
1,4-Dichlorobenzene-d4	441309	178690 - 714758		CIDA
Chlorobenzene-d5	463040	199960 - 799842		UVM .
Fluorobenzene	1487368	571263 - 2285052		11/3/06
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Analytical Method:	<u>SW8260B</u>	Preparatory Me	ethod:		AAB #:	. 1	R6783
Lab Name:	Life Science Laborato	es, Inc.		ontract #:			
Field Sample ID:	TF3M12314PA	Lab Sample ID	:	0609018-007A	Ma	trix:	Groundwater
% Solids:	<u>0</u>	Initial Calibrati	on ID:	<u>663</u>	File ID:	J0064.D	
Date Received:	<u>27-Sep-06</u>	Date Extracted	1:		Date Ana	lyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry we	ight): <u>µq/L</u>			Sample \$	21701	10 mL
	Analyte	-	IDL D	RL	Concentration	Dilutio	
(m+p)-Xylene	r u cut g cu		0280	2.0	0.340	1	F
1,1,1,2-Tetrachloroeth	ane		0540	0.50	0.0540	1	Ū Ū
1,1,1-Trichloroethane			0150	1.0	0.0150	. 1	- Ū
1,1,2,2-Tetrachloroeth	ane		0810	0.50	0.0810	1	
1,1,2-Trichloroethane		·///	0280	1.0	0.0280	1	- Ŭ
1.1-Dichloroethane			0330	1.0	0.0330	1	Ū
1.1-Dichloroethene			0460	1.0	0.0460	1	U
1,1-Dichloropropene			0240	1.0	0.0240	1	
1,2,3-Trichlorobenzen	3		0360	1.0	0.0360	1	U
1,2,3-Trichloropropane	}		0460	1.0	0.0460	1	U
1,2,4-Trichlorobenzene			0250	1.0	0.0250	1	Ū
1,2,4-Trimethylbenzen	6		0120	1.0	22.5	1	
1,2-Dibromo-3-chlorop	····		.261	2.0	0.261	1	U
1,2-Dibromoethane			0350	1.0	0.0350	1	Ū
1,2-Dichlorobenzene			0190	1.0	0.0190	1	U
1,2-Dichloroethane		0.0	0240	0.50	0.0240	1	υ
1,2-Dichloropropane		0.0	0260	1.0	0.0260	1	U
1,3,5-Trimethylbenzen	ê	0.0	0130	1.0	3.88	1	
1,3-Dichlorobenzene		0.1	0200	1.0	0.0200	1	U
1,3-Dichloropropane		0.1	0230	0.50	0.0230	1	U
1,4-Dichlorobenzene		0.0	0170	0.50	0.0170	1	U
1-Chlorohexane		0.0	0470	1.0	0.0470	1	U
2,2-Dichloropropane		0.0	0820	1.0	0.0820	1	U
2-Butanone	1117/7-A.	0.	.649	10	0.649	1	U
2-Chlorotoluene		0.0	0120	1.0	0.0120	1	U
4-Chlorotoluene		0.0	0170	1.0	0.0170	1	U
4-Methyl-2-pentanone		0.	.375	10	0.375	1	U
Acetone			.823	10	0.823	1	U
Benzene		0.0	0100	0.50	0.0100	1	U
Bromobenzene		0.1	0280	1.0	0.0280	1	U
Bromochloromethane		0.1	0590	1.0	0.0590	1	U
Bromodichloromethan	e	0.1	0310	0.50	0.0310	1	U
Bromoform		0.0	0470	1.0	0.0470	1	U

Comments:

Analytical Method:	SW8260B	Preparatory Method	:	AAB #:	E	6783	
Lab Name:	Life Science Laborate	pries, Inc.	Contract #:				
Field Sample ID:	TF3M12314PA	TF3M12314PA Lab Sample ID:		7 <u>A</u> Mat	Matrix:		
% Solids:	<u>0</u>	Initial Calibration ID	: <u>663</u>	File ID:	J0064.D		
Date Received:	27-Sep-06	Date Extracted:		Date Anal	yzed:	02-Oct-06	
Concentration Units (ug/L or mg/Kg dry weight):				Sample S	ize:	10 m	L
	Analyte	MDL	RL	Concentration			
Bromomethane		0.0590	3.0	0.0590	1	U	222
Carbon tetrachloride		0.0320	1.0	0.0320	1	U	
Chlorobenzene		0.0110	0.50	0.0110	1	U	
Chloroethane		0.116	1.0	0.116	1	U	
Chloroform		0.0290	0.50	0.0290	1	U	
Chloromethane		0.126	1.0	0.126	. 1	U	
cis-1,2-Dichloroethen	3	0.0320	1.0	0.0320	1	U	
cis-1,3-Dichloroproper	ne	0.0210	0.50	0.0210	1	U	
Dibromochloromethar	le	0.0410	0.50	0.0410	1	U	
Dibromomethane		0.0380	1.0	0.0380	1	U	
Dichlorodifluorometha	ine	0.0670	1.0	0.0670	1	U	
Ethylbenzene	······	0.0240	1.0	0.170	1	F	
Hexachlorobutadiene		0.0610	0.60	0.0610	1	υ	
Isopropylbenzene		0.0210	1.0	<b>BZ9</b> 58.4	12	. 3	4
Methyl tert-butyl ether	-	0.0250	5.0	0.0250	1	U	1
Methylene chloride		0.0340	1.0	0.0340	1	U	
n-Butylbenzene		0.0130	1.0	0.980	1	F	
n-Propylbenzene		0.00900	1.0	7.35	1		
Naphthalene		0.0240	1.0	0.0240	1	U	
o-Xyiene		0.0140	1.0	0.0140	1	U	
p-Isopropyltoluene		0.0140	1.0	1.38	1		
sec-Butylbenzene		0.0170	1.0	1.39	1		
Styrene		0.0200	1.0	0.0200	1	U	
tert-Butylbenzene		0.0160	1.0	1.14	1		
Tetrachloroethene		0.0300	1.0	0.0300	1	U	
Toluene		0.0180	1.0	0.0180	1	U	
trans-1,2-Dichloroethe	ene	0.0270	1.0	0.0270	1	U	
trans-1,3-Dichloroprop	pene	0.0290	1.0	0.0290	1	U	
Trichloroethene		0.0270	1.0	0.0270	1	U	
Trichlorofluoromethar	18	0.0200	1.0	0.0200	1	U	
Vinyl chloride		0.0380	1.0	0.0380	1	U	
Xylenes (total)		0.0420	2.0	0.340	1	F	

Comments: +Result transford from dilution sample TF3M12314PA (1:2) ENA 11/3/06

Analytical Method:	<u>SW8260B</u>	Preparatory Method:		AAB #:	<u>R6783</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract #:		
Field Sample ID:	TF3M12314PA	Lab Sample ID:	0609018-007A	Matrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID:	<u>663</u>	File ID: J0064.	D
Date Received:	<u>27-Sep-06</u>	Date Extracted:		Date Analyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight)	: <u>µg/L</u>		Sample Size:	10 mL
	Surrogate	Recov	ery Control Limit	s Qualifier	
1,2-Dich	nloroethane-d4	94	72 - 119		
4-Brom	ofluorobenzene	107	76 - 119		
Dibromo	Dibromofluoromethane		85 - 115		
Toluene	÷-d8	114	81 - 120		

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	472911	178690 - 714758	
Chlorobenzene-d5	481208	199960 - 799842	
Fluorobenzene	1408509	571263 - 2285052	

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Comments:

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Analytical Method:	<u>SW8260B</u>	Preparato	ry Method:		AAB #:	Ē	<u>R6816</u>
Lab Name:	Life Science Laborato	Laboratories, Inc.		Contract #:			
Field Sample ID:	TF3M12314PA	Lab Sample ID:		0609018-0	<u>07A</u> Ma	Matrix:	
% Solids:	<u>0</u>	Initial Cal	Initial Calibration ID:		File ID:	J0086.D	
Date Received:	27-Sep-06	Date Extra	acted.		, Date Ana	alvzeci-	03-Oct-06
Concentration Units (						-	<u></u> ,
Concentration Units (		ignt): <u>uc</u>	<u>/L</u>	an a	Sample		10 mL
	Analyte		MDL	RL	Concentration	Dilutio	
(m+p)-Xylene			0.0560	4.0	0.280	2	F
1,1,1,2-Tetrachloroetha	ine		0.108	1.0	0.108	2	U
1,1,1-Trichloroethane			0.0300	2.0	0.0300	2	U
1,1,2,2-Tetrachloroetha	ne		0.162	1.0	0.162	2	U
1,1,2-Trichloroethane			0.0560	2.0	0.0560	2	U
1,1-Dichloroethane			0.0660	2.0	0.0660	2	U
1,1-Dichloroethene		·	0.0920	2.0	0.0920	2	U
1,1-Dichloropropene			0.0480	2.0	0.0480	2	U
1,2,3-Trichlorobenzene			0.0720	2.0	0.0720	2	U
1,2,3-Trichloropropane			0.0920	2.0	0.0920	2	U
1,2,4-Trichlorobenzene			0.0500	2.0	0.0500	2	U
1,2,4-Trimethylbenzene	3		0.0240	2.0	18.5	2	
1,2-Dibromo-3-chlorop	ropane		0.522	4.0	0.522	2	U
1,2-Dibromoethane	····		0.0700	2.0	0.0700	2	υ
1,2-Dichlorobenzene			0.0380	2.0	0.0380	2	U
1,2-Dichloroethane			0.0480	1.0	0.0480	2	U
1,2-Dichloropropane			0.0520	2.0	0.0520	2	U
1,3,5-Trimethylbenzene	3		0.0260	2.0	3.56	2	
1,3-Dichlorobenzene			0.0400	2.0	0.0400	2	U
1,3-Dichloropropane			0.0460	1.0	0.0460	2	U
1,4-Dichlorobenzene			0.0340	1.0	0.0340	2	U
1-Chlorohexane		·	0.0940	2.0	0.0940	2	U
2,2-Dichloropropane			0.164	2.0	0.164	2	U
2-Butanone			1.30	20	1.30	2	U
2-Chiorotoluene			0.0240	2.0	0.0240	2	U
4-Chlorotoluene			0.0340	2.0	0.0340	2	U
4-Methyl-2-pentanone			0.750	20	0.750	2	U
Acetone			1.65	20	1.65	2	U
Benzene	and a second		0.0200	1.0	0.0200	2	U
Bromobenzene			0.0560	2.0	0.0560	2	U
Bromochloromethane			0.118	2.0	0.118	2	υ
Bromodichloromethane	3		0.0620	1.0	0.0620	2	U
Bromoform			0.0940	2.0	0.0940	2	U

Comments:

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Analytical Method:	<u>SW8260B</u>	Preparatory Method	:	AAB #:	ļ	R6816	
Lab Name:	Life Science Laborate	ories, Inc.	Contract #:				
Field Sample ID:	TF3M12314PA	Lab Sample ID:	0609018-	<u>007A</u> Mi	atrix:	Groundwate	Г
% Solids:	<u>0</u>	Initial Calibration ID	: 663	File ID:	J0086.D		
Date Received:	27-Sep-06	Date Extracted:		Date An	alvzed-	03-Oct-06	
Concentration Units	(ug/L or mg/Kg dry we				-	<u></u>	
				Sample		10 i	
Bromomethane	Analyte	MDL	RL	Concentration		acad contracts	r
Carbon tetrachloride		0.118	6.0	0.118	2	<u> </u>	
Chlorobenzene	······	0.0640	2.0	0.0640	2	<u> </u>	
Chloroethane		0.0220	1.0	0.0220	2	<u> </u>	
Chloroform		0.232	2.0	0.232	2	U	
Chloromethane		0.0580	1.0	0.0580	2	U	
cis-1,2-Dichloroethene		0.252	2.0	0.252	2	<u> </u>	
cis-1,2-Dichloroproper		0.0640	2.0	0.0640	2	<u> </u>	
Dibromochloromethan		0.0420	1.0	0.0420	2	<u> </u>	
Dibromomethane	e	0.0820	1.0	0.0820	2	<u> </u>	
Dichlorodifluorometha	**	0.0760	2.0	0.0760	2	<u> </u>	
Ethylbenzene		0.134	2.0	0.134	2	U	
Hexachlorobutadiene	······	0.0480	2.0	0.0480	2	<u> </u>	
Isopropylbenzene		0.122	1.2	0.122	2	U	
Methyl tert-butyl ether		0.0420	2.0	58.4	2		- Kev
Methylene chloride		0.0500	10	0.0500	2	U	
n-Butylbenzene		0.0680	2.0	0.0680	2	U	
n-Propylbenzene		0.0260	2.0	1.44	2	F	
Naphthalene		0.0180	2.0	6.16	2		
o-Xylene		0.0480	2.0	0.0480	2	<u> </u>	
p-isopropyltoluene		0.0280	2.0	0.0280	2	<u> </u>	
sec-Butylbenzene		0.0280	2.0	1.82	2	F	
Styrene		0.0340	2.0	1.52	2	F	
tert-Butylbenzene		0.0400	2.0	0.0400	2	<u> </u>	
Tetrachloroethene		0.0320	2.0	1.42	2	F	
Toluene		0.0600	2.0	0.0600	2	<u> </u>	_
trans-1,2-Dichloroethe		0.0360	2.0	0.0360	2	U	
trans-1,3-Dichloroprop		0.0540	2.0	0.0540	2	U	
Trichloroethene		0.0580	2.0	0.0580	2	<u> </u>	
Trichlorofluoromethan	<b>.</b>	0.0540	2.0	0.0540	2	U	
Vinyl chloride	<u>ت</u>	0.0400	2.0	0.0400	2	<u> </u>	
Xylenes (total)		0.0760	2.0	0.0760	2	<u> </u>	
NACHES (IOISI)	////	0.0840	4.0	0.280	2	F	

Comments: Alegult transferred to original sample TF3M12314PA 11:1

QAPP 4.0

Analytical Method:	<u>SW8260B</u>	Preparate	Preparatory Method:				<u>R6816</u>	
Lab Name:	Life Science Laboratories	Inc.	C	ontract #:				
Field Sample ID:	TF3M12314PA	Lab Sam	ple ID:	0609018-007A	Ма	trix:	Groundwater	
% Solids:	<u>0</u>	Initial Ca	libration ID:	<u>663</u>	File ID:	J0086.D	j	
Date Received:	27-Sep-06	Date Extr	acted:		Date Ana	lyzed:	03-Oct-06	
Concentration Units	(ug/L or mg/Kg dry weight	): <u>µ</u>	<u>a/L</u>		Sample S	Size:	10 mL	
100	Surrogate	- 1 - E	Recovery	Control Lir	nits 📃 Q	ualifier		
1,2-Did	nloroethane-d4		91	72 - 119	)			
4-Brom	ofiuorobenzene		112	76 - 119	)			
Dibrom	ofluoromethane		96	85 - 115	5			
Toluene	⊱d8		109	81 - 120	)			
	Internal Std	Area Ci	ounts /	Area Count Limits	Qualifi			

Internal Std	Area Counts	Area Count Limits	Qualifier	
1,4-Dichlorobenzene-d4	479525	178690 - 714758		ENA
Chlorobenzene-d5	496577	199960 - 799842		1.12/06
Fluorobenzene	1533108	571263 - 2285052		11/2/02
				, ,

#### Comments:

QAPP 4.0

Analytical Method:	<u>SW8260B</u>	Preparatory Me	thod:	AAB #	#: <u>R</u> (	<u>6783</u>
Lab Name:	Life Science Laborato	ies, Inc.	Contract	#:		
Field Sample ID:	TF3M12614PA	Lab Sample ID:	0609	018-008A	Matrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibratio	n ID: <u>663</u>	File II	D: J0065.D	
Date Received:	27-Sep-06	Date Extracted:		Date	Analyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry wei	ght): <u>ug/L</u>		Samp	le Size:	10 mL
	Analyte	M	DL RL	Concentration	Dilution	Qualifier
(m+p)-Xylene		0.0	280 2.0	0.0280	1	U
1,1,1,2-Tetrachloroeth	ane	0.0	540 0.50	0.0540	1	U
1,1,1-Trichloroethane		0.0	150 1.0	0.0150	1	U
1,1,2,2-Tetrachloroeth	ane	0.0	810 0.50	0.0810	1	U
1,1,2-Trichloroethane		0.0	280 1.0	0.0280	1	U
1,1-Dichloroethane		0.0	330 1.0	0.0330	1	U
1,1-Dichloroethene		0.0	460 1.0	0.0460	1	U
1,1-Dichloropropene		0.0	240 1.0	0.0240	1	U
1,2,3-Trichlorobenzene	3	0.0	360 1.0	0.0360	1	U
1,2,3-Trichloropropane	}	0.0	460 1.0	0.0460	1	U
1,2,4-Trichlorobenzend	3	0.0	250 1.0	0.0250	1	U
1,2,4-Trimethylbenzen	e	0.0	120 1.0	0.0120	1	U
1,2-Dibromo-3-chlorop	ropane	0.2	261 2.0	0.261	1	U
1,2-Dibromoethane		0.0	350 1.0	0.0350	1	U
1,2-Dichlorobenzene		0.0	190 1.0	0.0190	1	U
1,2-Dichloroethane		0.0	240 0.50	0.0240	1	U
1,2-Dichloropropane		0.0	260 1.0	0.0260	1	U
1,3,5-Trimethylbenzen	e	0.0	130 1.0	0.0130	1	U
1,3-Dichlorobenzene		0.0	200 1.0	0.0200	1	U
1,3-Dichloropropane	an ann an an an Anna Anna Anna Anna Ann	0.0	230 0.50	0.0230	1	U
1,4-Dichlorobenzene		0.0	170 0.50	0.0170	1	U
1-Chlorohexane		0.0	470 1.0	0.0470	1	U
2,2-Dichloropropane		0.0	820 1.0	0.0820	1	U
2-Butanone		0.0	649 10	0.649	1	U
2-Chlorotoluene		0.0	120 1.0	0.0120	1	U
4-Chlorotoluene		0.0	170 1.0	0.0170	1	U
4-Methyl-2-pentanone		0.:	375 10	0.375	1	U
Acetone		0.1	323 10	0.823	1	U
Benzene		0.0	100 0.50	0.0100	1	U
Bromobenzene		0.0	280 1.0	0.0280	1	U
Bromochloromethane		0.0	590 1.0	0.0590	1	U
Bromodichloromethan	e	0.0	310 0.50	0.0310	1	U
Bromoform		0.0	470 1.0	0.0470	1	U

Comments:

CNA 11/3

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Analytical Method:	<u>SW8260B</u>	Preparatory Metho	od:	AAB #:	E	6783
Lab Name:	Life Science Laborate	ries, Inc.	Contract #:			
Field Sample ID:	TF3M12614PA	Lab Sample ID:	<u>0609018</u>	-008 <u>A</u> M	atrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration	ID: <u>663</u>	File ID:	J0065.D	
Date Received:	27-Sep-06	Date Extracted:		Date An	alyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry we	ight): <u>µa/L</u>		Sample	Size	10 mL
	Analyte	MDL	RL	-	Dilution	
Bromomethane	- Andrijak	0.059		0.0590	1	U
Carbon tetrachloride		0.032		0.0320	1	U
Chlorobenzene		0.011		0.0110	1	U U
Chloroethane		0.116		0.116	1	U U
Chloroform		0.029		0.0290	1	
Chioromethane		0.126		0.126	1	Ŭ
cis-1,2-Dichloroethene	2	0.032		0.0320	1	U
cis-1,3-Dichloroproper		0.021		0.0210	1	U
Dibromochloromethar		0.041		0.0410	1	U
Dibromomethane	· · · ·	0.038		0.0380	1	U
Dichlorodifluorometha	ne	0.067		0.0670	1	Ū
Ethylbenzene		0.024	······	0.0240	1	
Hexachlorobutadiene		0.061	0 0.60	0.0610	1	U
Isopropylbenzene		0.021	0 1.0	6.28	1	
Methyl tert-butyl ether		0.025	0 5.0	0.0250	1	U
Methylene chloride		0.034	0 1.0	0.0340	1	U
n-Butylbenzene		0.013	0 1.0	0.0130	1	U
n-Propylbenzene		0.0090	0 1.0	5.81	1	
Naphthalene		0.024	0 1.0	0.0240	1	U
o-Xylene		0.014	0 1.0	0.0140	1	U
p-Isopropyltoluene		0.014	0 1.0	0.0140	1	U
sec-Butylbenzene		0.017	0 1.0	5.33	1	
Styrene		0.020	0 1.0	0.0200	1	U
tert-Butylbenzene		0.016	0 1.0	1.58	1	
Tetrachloroethene		0.030	0 1.0	0.0300	- 1	U
Toluene		0.018	0 1.0	0.0180	1	U
trans-1,2-Dichloroethe	ene	0.027	0 1.0	0.0270	1	U
trans-1,3-Dichloroprop	pene	0.029	0 1.0	0.0290	1	U
Trichloroethene		0.027	0 1.0	0.0270	1	U
Trichlorofluoromethan	18	0.020	0 1.0	0.0200	1	U
Vinyl chloride		0.038	0 1.0	0.0380	1	U
Xylenes (total)		0.042	0 2.0	0.0420	1	U

# Comments:

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Analytical Metho	od: <u>SW8260B</u>	Preparatory Metho	Preparatory Method:			<u>R6783</u>
Lab Name:	Life Science Laborato	ries, Inc.	Contrac	:t #:		
Field Sample ID	TF3M12614PA	Lab Sample ID:	060	9018-008A	Matrix:	Groundwater
% Solids:	Q	Initial Calibration	D: <u>663</u>		File ID: J0065.I	C
Date Received:	<u>27-Sep-06</u>	Date Extracted:			Date Analyzed:	02-Oct-06
Concentration L	Inits (ug/L or mg/Kg dry wei	ight): µg/L			Sample Size:	10 mL
	Surrogate	Rec	overy	Control Limits	Qualifier	
1,2	-Dichloroethane-d4	5	1	72 - 119		
4-E	Bromofluorobenzéne	· 1	11	76 - 119		
Dit	romofluoromethane	(	9	85 - 115		
Tol	uene-d8	1	18	81 - 120		

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	485074	178690 - 714758	
Chlorobenzene-d5	497376	199960 - 799842	
Fluorobenzene	1488045	571263 - 2285052	

ent 11/3/06

# Comments:

QAPP 4.0

Analytical Method:	<u>SW8260B</u>	Preparat	ory Method:		AAB #:	-	R6783	
Lab Name:	Life Science Laboratories.	Inc.		Contract #:				
Field Sample ID:	TF3M12713PA	Lab Sam	ple ID:	0609018-0	<u>)09A</u> Mai	rix:	Groundwater	
% Solids:	<u>0</u>	Initial Ca	libration ID:	663	File ID:	J0066.D		
Date Received:	27-Sep-06	Date Ext	racted:		Date Ana	vzed:	02-Oct-06	
Concentration Units (	ug/L or mg/Kg dry weight)	: Ц	g/L					
	Analyte		MDL	RL	Sample S	Dilutio	10 m	L
(m+p)-Xylene			0.0280	2.0	31.6 <sup>°</sup>	110102-01-0000	n Qualifier	
1,1,1,2-Tetrachloroetha	ine		0.0540	0.50	0.0540	1		···•.
1,1,1-Trichloroethane			0.0150	1.0		1	<u> </u>	-
1,1,2,2-Tetrachloroetha	ine		0.0810	0.50	0.0150	1	<u> </u>	
1,1,2-Trichloroethane			0.0280	1.0	0.0810	1		
1,1-Dichloroethane			0.0280	1.0	0.0280	1	<u> </u>	
1,1-Dichloroethene			0.0350	<u> </u>	0.0330	1	<u> </u>	_
1,1-Dichloropropene			0.0460	1.0	0.0460	1	<u> </u>	
1,2,3-Trichlorobenzene	<b></b>			1.0	0.0240	1	U	{
1,2,3-Trichloropropane			0.0360	1.0	0.0360	1	U	
1.2.4-Trichlorobenzene	······································		0.0460	1.0	0.0460	1	U	
1,2,4-Trimethylbenzene			0.0250	1.0	0.0250	1	U	
1,2-Dibromo-3-chloropr			0.0120	1.0	10= 78.6	1	#	$\ast$
1,2-Dibromoethane			0.261	2.0	0.261	1	U	
1,2-Dichlorobenzene	······································	·	0.0350	1.0	0.0350	1	U	
1,2-Dichloroethane			0.0190	1.0	0.0190	1	<u> </u>	_
1,2-Dichloropropane			0.0240	0.50	0.0240	1	U	
1,3,5-Trimethylbenzene	·		0.0260	1.0	0.0260	1	<u> </u>	
1,3-Dichlorobenzene	· · · · · · · · · · · · · · · · · · ·		0.0130	1.0	0.0130	1	U	
1,3-Dichloropropane			0.0200	1.0	0.0200	1	U	
1,4-Dichlorobenzene			0.0230	0.50	0.0230	1	บ	
1-Chlorohexane			0.0170	0.50	0.0170	1	U	
2,2-Dichloropropane			0.0470	1.0	0.0470	1	U	
2-Butanone			0.0820	1.0	0.0820	1	U	
2-Chlorotoluene			0.649	10	0.649	1	U	
4-Chlorotoluene			0.0120	1.0	0.0120	1	U	
4-Methyl-2-pentanone			0.0170	1.0	0.0170	1	U	
Acetone			0.375	10	0.375	1	U	]
Benzene			0.823	10	0.823	1	U	
			0.0100	0.50	3.05	1		1
Bromobenzene	۲۰۰۰ میں		0.0280	1.0	0.0280	1	υ	-
Bromochloromethane			0.0590	1.0	0.0590	1	U	1
Bromodichloromethane	<b></b>		0.0310	0.50	0.0310	1	U	1
Bromoform			0.0470	1.0	0.0470	1	U	1

Comments: \* Republ transferred hom dilution Sample TF3M12713PA 1:5

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Analytical Method:	SW8260B	Preparatory Method:		AAB #:	<u>R</u>	6783
Lab Name:	Life Science Laborato	ries, Inc.	Contract #:			
Field Sample ID:	TF3M12713PA	Lab Sample ID:	0609018-	<u>-009A</u> Mat	rix:	Groundwater
% Solids:	<u>o</u>	Initial Calibration ID:	663	File ID:	J0066.D	
Date Received:	27-Sep-06	Date Extracted:		Date Anal	yzed:	02-Oct-06
Concentration Units	s (ug/L or mg/Kg dry we	light): <u>µg/L</u>		Sample S	ize:	10 mL
	Analyte	MDL	RL	Concentration	Dilution	n Qualifier
Bromomethane		0.0590	3.0	0.0590	1	U
Carbon tetrachloride		0.0320	1.0	0.0320	1	U
Chlorobenzene		0.0110	0.50	0.0110	1	U
Chloroethane		0.116	1.0	0.116	1	U
Chloroform		0.0290	0.50	0.0290	1	U
Chloromethane		0.126	1.0	0.126	1	U
cis-1,2 Dichloroethen	16	0.0320	1.0	0.0320	1	<u> </u>
cis-1,3-Dichloroprope	ene	0.0210	0.50	0.0210	1	U
Dibromochlorometha	ne	0.0410	0.50	0.0410	1	U
Dibromomethane		0.0380	1.0	0.0380	1	U
Dichlorodifluorometh	ane	0.0670	1.0	0.0670	1	U
Ethylbenzene	· · · · · · · · · · · · · · · · · · ·	0.0240	1.0	35.2 478 78-15	±5	J J
Hexachlorobutadiene	;	0.0610	0.60	0.0610	1	U
Isopropylbenzene		0.0210	1.0	25.5°	1	
Methyl tert-butyl ethe	er	0.0250	5.0	0.0250	1	U
Methylene chloride	*****	0.0340	1.0	0.0340	1	U
n-Butylbenzene		0.0130	1.0	1.56	1	
n-Propylbenzene		0.00900	1.0	27.5	1	
Naphthalene		0.0240	1.0	25.8 <sup>¢</sup>	1	
o-Xylene	anya ya kata ku kata kata kata kata kata kata	0.0140	1.0	0.0140	1	U
p-isopropyltoluene		0.0140	1.0	2.25	1	
sec-Butylbenzene		0.0170	1.0	3.39	1	
Styrene		0.0200	1.0	0.0200	1	U
tert-Butylbenzene		0.0160	1.0	0.0160	1	U
Tetrachloroethene		0.0300	1.0	0.0300	1	U
Toluene		0.0180	1.0	0.0180	1	U
trans-1,2-Dichloroeti	hene	0.0270	1.0	0.0270	1	U
trans-1,3-Dichloropro	opene	0.0290	1.0	0.0290	, 1	U
Trichloroethene		0.0270	1.0	0.0270	1	U
Trichlorofluorometha	ane	0.0200	1.0	0.0200	1	U
Vinyl chloride		0.0380	1.0	0.0380	1	U
Xylenes (total)		0.0420	2.0	31.6	1	

Comments: \* Result transferred from Lilution Sample TF3M127 13PA1

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Analytical Method:	<u>SW8260B</u>	Preparatory Method:		AAB #:	<u>R6783</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract #:		
Field Sample ID:	TF3M12713PA	Lab Sample ID:	0609018-009A	Matrix:	Groundwater
% Solids:	Q	Initial Calibration ID:	<u>663</u>	File ID: J0066.	D
Date Received:	27-Sep-06	Date Extracted:		Date Analyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight	): <u>µg/L</u>		Sample Size:	10 mL
	Surrogate	Recover	y Control Limit	s Qualifier	
1,2-Dict	nloroethane-d4	90	72 - 119		

1,2-DICINOIOEUIAIIE-04	90	12115	
4-Bromofluorobenzene	110	76 - 119	
Dibromofluoromethane	97	85 - 115	
Toluene-d8	108	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier	<u>^</u> 1
1,4-Dichlorobenzene-d4	565026	178690 - 714758		CUH
Chlorobenzene-d5	540971	199960 - 799842		1.10/01-
Fluorobenzene	1642481	571263 - 2285052		11300
				1

Comments:

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Analytical Method:	<u>SW8260B</u>	Preparatory Method:		AAB #:	R	6816	
Lab Name:	Life Science Laborate	ories, Inc.	Contract #:				
Field Sample ID:	TF3M12713PA	Lab Sample ID:	0609018-0	009A Ma	trix:	Groundwater	-
% Solids:	<u>0</u>	Initial Calibration ID:	663	File ID:	J0087.D		
Data Dasabuad		Photo Photometry at a structure		Dete has	- luma ala	03-Oct-06	
Date Received:	27-Sep-06	Date Extracted:		Date Ana	nyzeu:	03-06-06	•
Concentration Units	(ug/L or mg/Kg dry we	eight): <u>ua/L</u>		Sample	Size:	10 mL	
	Analyte	MDL	RL	Concentration	Dilution	i Qualifier	
(m+p)-Xylene		0.140	10	22.2	5		
1,1,1,2-Tetrachloroeth	ane	0.270	2.5	0.270	5	U	
1,1,1-Trichloroethane		0.0750	5.0	0.0750	5	U	
1,1,2,2-Tetrachloroeth	ane	0.405	2.5	0.405	5	U	
1,1,2-Trichloroethane		0.140	5.0	0.140	5	U	}
1,1-Dichloroethane		0.165	5.0	0.165	5	U	
1,1-Dichloroethene		0.230	5.0	0.230	5	U U	
1,1-Dichloropropene		0.120	5.0	0.120	5	U	
1,2,3-Trichlorobenzen	e	0.180	5.0	0.180	5	U	ļ
1,2,3-Trichloropropane	9	0.230	5.0	0.230	5	U	
1,2,4-Trichlorobenzen	e	0.125	5.0	0.125	5	U	1 i A
1,2,4-Trimethylbenzer	)e	0.0600	5.0	78.6	5		学长 ?
1,2-Dibromo-3-chlorop	propane	1.31	10	1.31	5	U	N. Y. M.
1,2-Dibromoethane		0.175	5.0	0.175	5	υ	μŶ
1,2-Dichlorobenzene		0.0950	5.0	0.0950	5	U	
1,2-Dichloroethane		0.120	2.5	0.120	5	U	
1,2-Dichloropropane		0.130	5.0	0.130	5	U	
1,3,5-Trimethylbenzer	1e	0.0650	5.0	0.0650	5	U	-
1,3-Dichlorobenzene		0.100	5.0	0.100	5	U	+
1,3-Dichloropropane		0.115	2.5	0.115	5	U	
1,4-Dichlorobenzene		0.0850	2.5	0.0850	5	U	
1-Chlorohexane		0.235	5.0	0.235	5	υ	-
2,2-Dichloropropane		0.410	5.0	0.410	5	υ	
2-Butanone		3.24	50	3.24	5	U	
2-Chlorotoluene		0.0600	5.0	0.0600	5	U	
4-Chlorotoluene		0.0850	5.0	0.0850	5	U	
4-Methyl-2-pentanone	)	1.88	50	1.88	5	U	
Acetone	······	4.12	50	4.12	5	U	
Benzene		0.0500	2.5	2.40	5	F	1
Bromobenzene		0.140	5.0	0.140	5		-
Bromochloromethane		0.295	5.0	0.295	5	υ	-
Bromodichloromethar	ne	0.155	2.5	0.155	5	U	
Bromoform	****	0.235	5.0	0.235	5	U	1
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Comments:

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Analytical Method:	<u>SW8260B</u>	Preparato	ory Method:		AAB #:	<u>F</u>	<u>R6816</u>	
Lab Name:	Life Science Laborate	ories, Inc.		Contract #:				
Field Sample ID:	TF3M12713PA	Lab Sam	ple ID:	0609018-0	009A Ma	ıtrix:	Groundwat	er
% Solids:	<u>0</u>	Initial Cal	libration ID:	663	File ID:	J0087.D		
Date Received:	27-Sep-06	Date Extr	acted.		Date Ana	-	03-Oct-06	
O					pate Ant	<i></i>	00-00-00	
Concentration Units	(ug/L or mg/Kg dry we	eight): <u>µ</u>	<u>g/L</u>		Sample	Size:	10	mL
	Analyte	and the second	MDL	RL	Concentration	Dilution	n Qualifi	er
Bromomethane			0.295	15	0.295	5	U	
Carbon tetrachloride			0.160	5.0	0.160	5	U	
Chlorobenzene			0.0550	2.5	0.0550	5	U	
Chloroethane			0.580	5.0	0.580	5	U	
Chloroform			0.145	2.5	0.145	5	U	
Chloromethane			0.630	5.0	0.630	5	U	
cis-1,2-Dichloroethene	}		0.160	5.0	0.160	5	U	
cis-1,3-Dichloropropen	e		0.105	2.5	0.105	5	U	
Dibromochloromethan	e		0.205	2.5	0.205	5	U	
Dibromomethane			0.190	5.0	0.190	5	U	
Dichlorodifluorometha	ne		0.335	5.0	0.335	5	υ	
Ethylbenzene			0.120	5.0	35.2	5		- Y
Hexachlorobutadiene			0.305	3.0	0.305	5	U	
Isopropylbenzene		······································	0.105	5.0	18.0	5		
Methyl tert-butyl ether			0.125	25	0.125	5	U	
Methylene chloride			0.170	5.0	0.170	5	U	
n-Butylbenzene			0.0650	5.0	0.0650	5	U	
n-Propylbenzene			0.0450	5.0	20.3	5		•••••
Naphthalene	······································		0.120	5.0	21.7	5		
o-Xylene			0.0700	5.0	0.0700	5	U	
p-Isopropyltoluene			0.0700	5.0	3.90	5	F	
sec-Butylbenzene	<b></b>		0.0850	5.0	3.70	5	F	
Styrene		1	0.100	5.0	0.100	5	U	
tert-Butylbenzene			0.0800	5.0	0.0800	5	U	
Tetrachloroethene			0.150	5.0	0.150	5	U	
Toluene			0.0900	5.0	0.0900	5	U	
trans-1,2-Dichloroethe	ne		0.135	5.0	0.135	5		
trans-1,3-Dichloroprop	ene		0.145	5.0	0.145	5	U	
Trichloroethene			0.135	5.0	0.135	5	U	
Trichlorofluoromethane	3		0.100	5.0	0.100	5	Ū	
Vinyl chloride			0.190	5.0	0.190	5		
Xylenes (total)			0.210	10	22.2	5		

comments: \* Repult transferred to toriginal sample TF3M12713PA (1:1)

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Analytical Method:	<u>SW8260B</u>	Preparatory Method:		AAB #:	<u>R6816</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract #:		
Field Sample ID:	TF3M12713PA	Lab Sample ID:	0609018-009A	Matrix:	Groundwater
% Solids:	Q	Initial Calibration ID:	<u>663</u>	File ID: J0087.	D
Date Received:	<u>27-Sep-06</u>	Date Extracted:		Date Analyzed:	03-Oct-06
<b>Concentration Units</b>	(ug/L or mg/Kg dry weight)	): <u>µg/L</u>		Sample Size:	10 mL
	Surrogate	Recov	ery Control Lim	its Qualifier	
1,2-Dich	loroethane-d4	94	72 - 119		
4-Bromo	ofluorobenzene	107	76 - 119		
Dibromo	ofluoromethane	95	85 - 115		
Toluene	-d8	104	81 - 120		

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	466140	178690 - 714758	
Chlorobenzene-d5	472275	199960 - 799842	
Fluorobenzene	1474454	571263 - 2285052	

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Analytical Method:	<u>SW8260B</u>	Preparatory Method	:	AAB #:	F	<u>R6816</u>
Lab Name:	Life Science Laborato	ries, Inc.	Contract #:			
Field Sample ID:	TF3M12814PA	Lab Sample ID:	0609018	<u>-010A</u> M	atrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID	: <u>663</u>	File ID:	J0084.D	
Date Received:	27-Sep-06	Date Extracted:		Date An	alyzed:	03-Oct-06
Concentration Units	(ug/L or mg/Kg dry we	ight): <u>µg/L</u>		Sample	Size:	10 mL
	Analyte	MDL	RL	Concentration	Dilution	n Qualifier
(m+p)-Xylene	4	0.0280	2.0	4.37	1	
1,1,1,2-Tetrachloroeth	ane	0.0540	0.50	0.0540	1	U
1,1,1-Trichloroethane		0.0150	1.0	0.0150	1	U
1,1,2,2-Tetrachloroeth	ane	0.0810	0.50	0.0810	1	υ
1,1,2-Trichloroethane	,	0.0280	1.0	0.0280	1	U
1,1-Dichloroethane		0.0330	1.0	0.0330	1	U
1.1-Dichloroethene		0.0460	1.0	0.0460	1	U
1,1-Dichloropropene		0.0240	1.0	0.0240	1	U
1,2,3-Trichlorobenzen	16	0.0360	1.0	0.0360	1	U
1,2,3-Trichloropropan	e	0.0460	1.0	0.0460	1	U
1,2,4-Trichlorobenzen		0.0250	1.0	0.0250	1	U
1,2,4-Trimethylbenzer		0.0120	1.0	4.25	1	
1,2-Dibromo-3-chloro		0.261	2.0	0.261	1	U
1,2-Dibromoethane		0.0350	1.0	0.0350	1	U
1.2-Dichlorobenzene		0.0190	1.0	0.0190	1	U
1,2-Dichloroethane		0,0240	0.50	0.0240	1	U
1,2-Dichloropropane		0.0260	1.0	0.0260	1	U
1,3,5-Trimethylbenzei	ne	0.0130	1.0	0.0130	1	U
1,3-Dichlorobenzene		0.0200	1.0	0.0200	1	U
1,3-Dichloropropane		0.0230	0.50	0.0230	1	U
1.4-Dichlorobenzene		0.0170	0.50	0.0170	1	U
1-Chlorohexane	······································	0.0470	1.0	0.0470	1	U
2,2-Dichloropropane		0.0820		0.0820	1	U
2-Butanone	TA	0.649	10	0.649	1	U
2-Chlorotoluene		0.0120		0.0120	1	υ
4-Chlorotoluene		0.0170		0.0170	1	U
4-Methyl-2-pentanone	3	0.375	10	0.375	1	U
Acetone		0.823	10	0.823	1	U
Benzene		0.0100		0.330	1	F
Bromobenzene		0.0280		0.0280	1	U
Bromochloromethane	3	0.0590		0.0590	1	U
Bromodichlorometha		0.0310		0.0310	1	U
Bromoform	1007-1001-1001-1001-1001-100-100-100-100	0.0470	·····	0.0470	1	U U

Comments:

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Analytical Method:	SW8260B	Preparatory Method:	:	AAB #:		<u>R6816</u>
Lab Name:	Life Science Laborate	ories, Inc.	Contract #:			
Field Sample ID:	TF3M12814PA	Lab Sample ID:	0609018-01	<u>0A</u> M	atrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID:	<u>663</u>	File ID:	J0084.C	)
Date Received:	<u>27-Sep-06</u>	Date Extracted:		Date An	alvzed:	03-Oct-06
Concentration Units	(ug/L or mg/Kg dry we	eight): µa/L			-	
R.	Analyte		1917	Sample		10 mL
Bromomethane	Allalyte	RELATE STREET	RL	Concentration		Cardina and Card
Carbon tetrachloride	······	0.0590	3.0	0.0590	1	<u> </u>
Chlorobenzene	· · · · · · · · · · · · · · · · · · ·	0.0320	1.0	0.0320	1	U
Chloroethane		0.0110	0.50	0.0110	1	U
Chloroform		0.116	1.0	0.116	1	U
Chloromethane		0.0290	0.50	0.0290	1	U
cis-1.2-Dichloroethene		0.126	1.0	0.126	1	U
cis-1,3-Dichloroproper	-	0.0320	1.0	0.0320	1	U
Dibromochloromethan		0.0210	0.50	0.0210	1	U
Dibromomethane	<b>G</b>	0.0410	0.50	0.0410	1	U
Dichlorodifluorometha	ne.	0.0380	1.0	0.0380	1	U
Ethylbenzene		0.0670	1.0	0.0670	1	U
Hexachlorobutadiene		0.0240	1.0	6.50	1	
Isopropylbenzene		0.0610	0.60	0.0610	1	U
Methyl tert-butyl ether		0.0210	1.0	2.05	1	
Methylene chloride	//////////////////////////////////////	0.0250	5.0	0.0250	1	<u> </u>
n-Butylbenzene		0.0340	1.0	0.0340	1	U
n-Propylbenzene	· · · · · · · · · · · · · · · · · · ·	0.0130	1.0	0.0130	1	U
Naphthalene		0.00900	1.0	2.49	1	
o-Xylene		0.0240	1.0	3.04	1	
p-Isopropyitoluene	······································	0.0140	1.0	0.0140		<u> </u>
sec-Butylbenzene	1	0.0140	1.0	0.860	1	F
Styrene		0.0170	1.0	0.890	1	F
tert-Butvlbenzene		0.0200	1.0	0.0200	1	<u> </u>
Tetrachloroethene		0.0160	1.0	0.0160	1	U
Toluene		0.0300	1.0	0.0300	1	<u> </u>
trans-1,2-Dichloroethe	ne	0.0180	1.0	0.0180	1	<u> </u>
trans-1,3-Dichloroprop		0.0270	1.0	0.0270	1	<u> </u>
Trichloroethene		0.0290	1.0	0.0290	1	<u> </u>
Trichlorofluoromethane	۵	0.0270	1.0	0.0270	1	<u> </u>
Vinyl chloride	w	0.0200	1.0	0.0200	1	U
Xylenes (total)		0.0380	1.0	0.0380	1	U
Aliches (IO(di)		0.0420	2.0	4.37	1	

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Analytical Method:	<u>SW8260B</u>	Preparatory Method:		AAB #:	<u>R6816</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract #:		
Field Sample ID:	TF3M12814PA	Lab Sample ID:	0609018-010A	Matrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID:	663	File ID: J0084.I	C
Date Received:	27-Sep-06	Date Extracted:		Date Analyzed:	03-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight)	: <u>µg/L</u>		Sample Size:	10 mL
	Surrogate	Recov	ery Control Limit	Qualifier	
1,2-Dich	loroethane-d4	95	72 - 119		00.020000
4-Bromo	ofluorobenzene	105	76 - 119		
Dibromo	fluoromethane	104	85 - 115		
Toluene	-d8	103	81 - 120		

Internal Std	Area Counts	Area Count Limits	Qualifier *
1,4-Dichlorobenzene-d4	406917	178690 - 714758	
Chlorobenzene-d5	426160	199960 - 799842	
Fluorobenzene	1331785	571263 - 2285052	

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Comments:

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Analytical Method:	<u>SW8260B</u>	Preparatory Method	:	AAB #:	F	<u> 36816</u>
Lab Name:	Life Science Laboratories	<u>, Inc.</u>	Contract #:			
Field Sample ID:	TF3M13316PA	Lab Sample ID:	0609018-011	<u>A</u> Ma	atrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID	: <u>663</u>	File ID:	J0085.D	
Date Received:	27-Sep-06	Date Extracted:		Date An	alyzed:	03-Oct-06
Concentration Units	(ug/L or mg/Kg dry weigh	i): <u>µg/L</u>			-	
	Analyte	MDL	RL	Sample Concentration	Dilutio	10 mL n Qualifier
(m+p)-Xylene		0.0280	2.0	0.490	1	F
1,1,1,2-Tetrachloroeth	ane	0.0540	0.50	0.0540	1	U
1,1,1-Trichloroethane		0.0150	1.0	0.0150	1	<u> </u>
1,1,2,2-Tetrachloroeth	ane	0.0810	0.50	0.0810	1	
1,1,2-Trichloroethane	<b>*******</b> *****************************	0.0280	1.0	0.0280	1	
1,1-Dichloroethane		0.0330	1.0	0.0330	1	U U
1,1-Dichloroethene		0.0460	1.0	0.0460	1	
1,1-Dichloropropene		0.0240	1.0	0.0240	1	
1,2,3-Trichlorobenzene	3	0.0360	1.0	0.0360	1	
1,2,3-Trichloropropane		0.0460	1.0	0.0460	1	
1,2,4-Trichlorobenzene	3	0.0250	1.0	0.0250	1	
1,2,4-Trimethylbenzen	8	0.0120	1.0	2.88	1	
1,2-Dibromo-3-chlorop		0.261	2.0	0.261	1	
1,2-Dibromoethane	1 ····	0.0350	1.0	0.0350	1	U
1,2-Dichlorobenzene		0.0190	1.0	0.0190	1	U
1,2-Dichloroethane		0.0240	0.50	0.0240	1	
1,2-Dichloropropane	A	0.0240	1.0	0.0240	1	
1,3,5-Trimethylbenzen	0	0.0130	1.0	0.0130	1	U
1,3-Dichlorobenzene		0.0200	1.0	0.0200	1	·····
1,3-Dichloropropane		0.0230	0.50	0.0230	1	<u> </u>
1,4-Dichlorobenzene		0.0230	0.50	0.0170	1	U U
1-Chlorohexane		0.0470	1.0	0.0470	1	U
2,2-Dichloropropane		0.0820	1.0	0.0820	1	- <u>u</u>
2-Butanone		0.649	1.0	0.649	1	U
2-Chlorotoluene		0.0120	1.0	0.0120	1	
4-Chlorotoluene	۹۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰۰	0.0120	1.0	0.0120	1	U
4-Methyl-2-pentanone		0.375	10	0.375	1	U
Acetone		0.823	10	0.823	1	U
Benzene		0.0100	0.50	0.0100	1	
Bromobenzene		0.0280	1.0	0.0280		UU
Bromochloromethane		0.0590	1.0	0.0590	1	UU
Bromodichloromethane		0.0310	0.50	0.0310	1	
Bromoform	· · · · · · · · · · · · · · · · · · ·	0.0310	1.0	0.0470	-	U
		0.0470	1.0	0.04/0	1	<u> </u>

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Analytical Method:	<u>SW8260B</u>	Preparatory Method	:	AAB #:	R	<u>5816</u>
Lab Name:	Life Science Laborato	ries, Inc.	Contract #:			
Field Sample ID:	TF3M13316PA	Lab Sample ID:	0609018-	<u>011A</u> Ma	atrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID	: <u>663</u>	File ID:	J0085.D	
Date Received:	27-Sep-06	Date Extracted:		Date An	alyzed:	03-Oct-06
Concentration Units	(ug/L or mg/Kg dry we	ight): <u>µg/L</u>		Sample	Size:	10 mL
	Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bromomethane		0.0590	3.0	0.0590	1	U
Carbon tetrachloride		0.0320	1.0	0.0320	1	U
Chlorobenzene		0.0110	0.50	0.0110	1	U
Chloroethane		0.116	1.0	0.116	1	U
Chloroform		0.0290	0.50	0.0290	1	U
Chloromethane		0.126	1.0	0.126	1	U
cis-1,2-Dichloroethene	•	0.0320	1.0	0.0320	1	U
cis-1,3-Dichloroproper	10	0.0210	0.50	0.0210	1	U
Dibromochloromethan	6	0.0410	0.50	0.0410	1	U
Dibromomethane		0.0380	1.0	0.0380	1	U
Dichlorodifluorometha	ne	0.0670	1.0	0.0670	1	U
Ethylbenzene		0.0240	1.0	0.160	1	F
Hexachlorobutadiene		0.0610	0.60	0.0610	1	U
Isopropylbenzene	1	0.0210	1.0	5.16	1	
Methyi tert-butyl ether		0.0250	5.0	0.0250	1	U
Methylene chloride		0.0340	1.0	0.0340	1	U
n-Butylbenzene		0.0130	1.0	1.19	11	
n-Propylbenzene		0.00900	) 1.0	6.59	1	
Naphthalene		0.0240	1.0	2.09	1	
o-Xylene		0.0140	1.0	0.0140	1	U
p-isopropyltoluene		0.0140	1.0	1.29	1	
sec-Butylbenzene	······································	0.0170	1.0	4.53	1	
Styrene		0.0200	1.0	0.0200	1	U
tert-Butylbenzene		0.0160	1.0	0.920	1	F
Tetrachloroethene		0.0300	1.0	0.0300	1	U
Toluene		0.0180	1.0	0.0180	1	U
trans-1,2-Dichloroethe	ene	0.0270	) 1.0	0.0270	1	U
trans-1,3-Dichloropro	pene	0.0290	) 1.0	0.0290	1	U
Trichloroethene	A	0.0270	) 1.0	0.0270	1	U
Trichlorofluoromethar	ne	0.0200	) 1.0	0.0200	1	U
Vinyl chloride		0.0380	) 1.0	0.0380	1	U
Xylenes (total)		0.0420	) 2.0	0.490	1	F

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Analytical Metho	d: <u>SW8260B</u>	Preparatory Method:		AAB #:	<u>R6816</u>
Lab Name:	Life Science Laboratorie	s. Inc.	Contract #:		
Field Sample ID:	TF3M13316PA	Lab Sample ID:	0609018-011A	Matrix:	Groundwater
% Solids:	0	Initial Calibration ID:	<u>663</u>	File ID: J0085.	D
Date Received:	27-Sep-06	Date Extracted:		Date Analyzed:	03-Oct-06
Concentration U	nits (ug/L or mg/Kg dry weigi	it): <u>ug/L</u>		Sample Size:	10 mL
	Sutrogate	Recover	y Control Limit	s Qualifier	
1,2-	Dichloroethane-d4	95	72 - 119		
4-Bromofluorobenzene		106	76 - 119		
Dibi	omofiuoromethane	101	85 - 115		
Tolu	Jene-d8	112	81 - 120		

Internal Std	Area Counts	Area Count Limits Qualifier	
1,4-Dichlorobenzene-d4	439994	178690 - 714758	
Chlorobenzene-d5	455433	199960 - 799842	
Fluorobenzene	1339116	571263 - 2285052	

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Analytical Method:	<u>SW8260B</u>	Preparat	ory Method:		AAB #:	E	<u> 6783</u>
Lab Name:	Life Science Laboratories,	aboratories, Inc.		Contract #:			
Field Sample ID:	TF3M13316PC	Lab Sam	ple ID:	0609018-0	<u>12A</u> Ma	trix:	Groundwater
% Solids:	<u>0</u>	Initial Ca	libration ID:	<u>663</u>	File ID:	J0069.D	
Date Received:	<u>27-Sep-06</u>	Date Extr	acted:		Date Ana	wzed.	02-Oct-06
Concentration Units (	ug/L or mg/Kg dry weight)	: u	a/L	•		•	
	Analyte	-	MDL	RL	Sample : Concentration	Size: Dilutior	10 mL
(m+p)-Xylene			0.0280	2.0	0.470	1	i Qualifier F
1,1,1,2-Tetrachloroetha	ane		0.0540	0.50	0.0540	1	U
1,1,1-Trichloroethane			0.0150	1.0	0.0150	1	U
1,1,2,2-Tetrachioroetha	Ine		0.0810	0.50	0.0810	1	U U
1,1,2-Trichloroethane	·		0.0280	1.0	0.0280	1	U U
1,1-Dichloroethane			0.0330	1.0	0.0330	1	U
1,1-Dichloroethene	· · · · · · · · · · · · · · · · · · ·		0.0460	1,0	0.0460	1	U U
1,1-Dichloropropene			0.0240	1.0	0.0240	1	
1,2,3-Trichlorobenzene			0.0360	1.0	0.0360	1	
1,2,3-Trichloropropane			0.0460	1.0	0.0460	1	U
1,2,4-Trichlorobenzene			0.0250	1.0	0.0250	f	Ŭ
1,2,4-Trimethylbenzene	)		0.0120	1.0	2.79	1	
1,2-Dibromo-3-chloropr	ropane		0.261	2.0	0.261	1	U
1,2-Dibromoethane			0.0350	1.0	0.0350	1	
1,2-Dichlorobenzene			0.0190	1.0	0.0190	1	
1,2-Dichloroethane			0.0240	0.50	0.0240	1	U
1,2-Dichloropropane			0.0260	1.0	0.0260	1	U
1,3,5-Trimethylbenzene	}		0.0130	1.0	0.0130	1	U
1,3-Dichlorobenzene			0.0200	1.0	0.0200	1	U
1,3-Dichloropropane			0.0230	0.50	0.0230	1	U
1,4-Dichlorobenzene			0.0170	0.50	0.0170	1	U
1-Chlorohexane			0.0470	1.0	0.0470	1	U
2,2-Dichloropropane			0.0820	1.0	0.0820	1	U
2-Butanone			0.649	10	0.649	1	U
2-Chlorotoluene			0.0120	1.0	0.0120	1	U
4-Chlorotoluene	·····		0.0170	1.0	0.0170	1	U
4-Methyl-2-pentanone			0.375	10	0.375	1	U
Acetone			0.823	10	0.823	1	U
Benzene			0.0100	0.50	0.0100	1	U
Bromobenzene	// · · · · · · · · · · · · · · · · · ·		0.0280	1.0	0.0280	1	U
Bromochloromethane			0.0590	1.0	0.0590	1	U
Bromodichloromethane			0.0310	0.50	0.0310	1	U
Bromoform			0.0470	1.0	0.0470	1	U

Comments:

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Analytical Method:	SW8260B	Preparatory Metho	od:	AAB #:	R	6783
Lab Name:	Life Science Laborato	ries, Inc.	Contract #:			
Field Sample ID:	TF3M13316PC	Lab Sample ID:	060901	8-012A N	latrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration	ID: <u>663</u>	File ID:	J0069.D	
Date Received:	27-Sep-06	Date Extracted:		Date Ar	nalyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry we	ight): <u>ug/L</u>		Sample	e Size:	10 mL
	Analyte	MDL	RL	Concentration	Dilution	Qualifier
Bromomethane		0.059		0.0590	1	υ
Carbon tetrachloride		0.032	······································	0.0320	1	υ
Chlorobenzene		0.011		0.0110	1	U
Chloroethane		0.11(		0.116	1	U
Chloroform		0.029		0.0290	1	U
Chloromethane		0.12		0.126	1	U
cis-1,2-Dichloroethene	}	0.032		0.0320	1	U
cis-1,3-Dichloroproper		0.021		0.0210	1	U
Dibromochloromethan		0.041	0 0.50	0.0410	1	U
Dibromomethane		0.038	10 1.0	0.0380	1	U
Dichlorodifluorometha	ne	0.067	0 1.0	0.0670	1	U
Ethylbenzene		0.024	0 1.0	0.160	1	F
Hexachlorobutadiene		0.061	0 0.60	0.0610	1	U
Isopropylbenzene		0.021	0 1.0	5.00	1	
Methyl tert-butyl ether	, , , , , , , , , , , , , , , , , , ,	0.025	50 5.0	0.0250	1	U
Methylene chloride		0.034	1.0	0.0340	1	U
n-Butylbenzene		0.013	30 1.0	1.15	1	
n-Propylbenzene	······································	0.009	00 1.0	6.12	1	
Naphthalene		0.024	10 1.0	1.99	1	
o-Xylene		0.014	10 1.0	0.0140	1	U
p-Isopropyltoluene		0.014	10 1.0	1.26	1	
sec-Butylbenzene		0.017	70 1.0	4.31	1	
Styrene		0.020	0 1.0	0.0200	1	U
tert-Butylbenzene		0.016	50 1.0	0.880	1	F
Tetrachloroethene		0.030	00 1.0	0.0300	1	U
Toluene		0.018	30 1.0	0.0180	1	U
trans-1,2-Dichloroethe	ene	0.02	70 1.0	0.0270	1	U
trans-1,3-Dichloroprop	pene	0.029	90 1.0	0.0290	1	U
Trichloroethene		0.02	70 1.0	0.0270	1	U
Trichlorofluoromethan	e	0.020	00 1.0	0.0200	1	U
Vinyl chloride		0.03	80 1.0	0.0380	1	U
Xylenes (total)		0.04	20 2.0	0.470	1	F

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Analytical Method:	SW8260B	Preparatory Method:			AAB #:	<u>R6783</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract	#:		
Field Sample ID:	TF3M13316PC	Lab Sample ID:	0609	018-012A	Matrix:	Groundwater
% Solids:	Q	Initial Calibration II	): <u>663</u>		File ID: J000	59.D
Date Received:	27-Sep-06	Date Extracted:			Date Analyze	i: <u>02-Oct-06</u>
Concentration Units	(ug/L or mg/Kg dry weight)	: µg/L			Sample Size:	10 mL
	Surrogate	Réco	very	Control Limits	Qualifi	er
1,2-Dich	loroethane-d4	93	3	72 - 119		
4-Bromo	ofluorobenzene	11	5	76 - 119		
Dibromo	ofluoromethane	99	)	85 - 115		

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81 - 120

Internal Std	Area Counts	Area Count Limits Qualifier
1,4-Dichlorobenzene-d4	546976	178690 - 714758
Chlorobenzene-d5	547776	199960 - 799842
Fluorobenzene	1704006	571263 - 2285052

WA 11/3/06

#### Comments:

Toluene-d8

Analytical Method:	<u>SW8260B</u>	Preparatory N	lethod:		AAB #:	R6	783
Lab Name:	Life Science Labo	atories, Inc.		Contract #:			
Field Sample ID:	092606PE	Lab Sample I	D:	0609018-01	<u>13A</u> Ma	etrix:	Groundwater Q
% Solids:	0	Initial Calibra	tion ID:	<u>663</u>	File ID:	J0070.D	
Date Received:	27-Sep-06	Date Extracte	d:		Date An	alyzed:	02-Oct-06
Concentration Units	(ual) or malKa dry	weight): <u>ug/L</u>			Comple	Cimer	10 mL
Concentration of the					Sample	Dilution	
	Analyte		MDL.	RL	Concentration		U
(m+p)-Xylene			0.0280	2.0	0.0280	1	
1,1,1,2-Tetrachloroeth	ane		0.0540	0.50	0.0540	1	<u> </u>
1,1,1-Trichloroethane			0.0150	1.0	0.0150	1	U
1,1,2,2-Tetrachloroeth	ane		0.0810	0.50	0.0810	1	U
1,1,2-Trichloroethane			0.0280	1.0	0.0280	1	U
1,1-Dichloroethane			0.0330	1.0	0.0330	1	<u> </u>
1,1-Dichloroethene			0.0460	1.0	0.0460	1	<u> </u>
1,1-Dichloropropene			0.0240	1.0	0.0240	1	U
1,2,3-Trichlorobenzen			0.0360	1.0	0.0360	1	U
1,2,3-Trichloropropan			0.0460	1.0	0.0460	1	U
1,2,4-Trichlorobenzen			0.0250	1.0	0.0250	1	U
1,2,4-Trimethylbenzer			0.0120	1.0	0.0120	1	U
1,2-Dibromo-3-chlorop	oropane		0.261	2.0	0.261	1	U
1,2-Dibromoethane			0.0350	1.0	0.0350	1	<u> </u>
1,2-Dichlorobenzene			0.0190	1.0	0.0190	1	U
1,2-Dichloroethane			0.0240	0.50	0.0240	1	U
1,2-Dichloropropane			0.0260	1.0	0.0260	1	U
1,3,5-Trimethylbenzer	1e		0.0130	1.0	0.0130	1	U
1,3-Dichlorobenzene			0.0200	1.0	0.0200	1	U
1,3-Dichloropropane			0.0230	0.50	0.0230	1	U
1,4-Dichlorobenzene			0.0170	0.50	0.0170	1	U
1-Chlorohexane			0.0470	1.0	0.0470	1	U
2,2-Dichloropropane			0.0820	1.0	0.0820	1	U
2-Butanone			0.649	10	0.649	1	U
2-Chlorotoluene			0.0120	1.0	0.0120	1	U
4-Chlorotoluene	······		0.0170	1.0	0.0170	1	U
4-Methyl-2-pentanone	3		0.375	10	0.375	1	U
Acetone			0.823	10	0.823	1	U
Benzene			0.0100	0.50	0.0100	1	U
Bromobenzene			0.0280	1.0	0.0280	1	U
Bromochloromethane	;		0.0590	1.0	0.0590	1	υ
Bromodichlorometha	ne		0.0310	0.50	0.0310	1	U
Bromoform			0.0470	1.0	0.0470	1	U

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Analytical Method:	SW8260B	Preparato	ry Method:		AAB #:	Re	783
Lab Name:	Life Science Labor	atories, Inc.		Contract #:			
Field Sample ID:	092606PE	Lab Samp	ole ID:	0609018-01	<u>3A</u> Ma	trix:	<u>Groundwater Q</u>
% Solids:	<u>0</u>	Initial Cal	ibration ID:	<u>663</u>	File ID:	J0070.D	
Date Received:	27-Sep-06	Date Extra	acted:		Date Ana	ilyzed:	02-Oct-06
Concentration Units (	(ug/L or mg/Kg dry	weight): <u>µc</u>	<u>1/L</u>		Sample	Size:	10 mL
	Analyte		MDL	RL	Concentration	Dilution	Qualifier
Bromomethane			0.0590	3.0	0.0590	1	U
Carbon tetrachloride			0.0320	1.0	0.0320	1	U
Chlorobenzene			0.0110	0.50	0.0110	1	U
Chloroethane			0.116	1.0	0.116	1	U
Chloroform			0.0290	0.50	0.0290	1	U
Chloromethane			0.126	1.0	0.126	1	U
cis-1,2-Dichloroethene			0.0320	1.0	0.0320	1	U
cis-1,3-Dichloroproper	le		0.0210	0.50	0.0210	1	U
Dibromochloromethan	e		0.0410	0.50	0.0410	1	U
Dibromomethane			0.0380	1.0	0.0380	1	U
Dichlorodifluorometha	ne		0.0670	1.0	0.0670	1	U
Ethylbenzene			0.0240	1.0	0.0240	1	U
Hexachlorobutadiene			0.0610	0.60	0.0610	1	U
Isopropylbenzene			0.0210	1.0	0.0210	1	U
Methyl tert-butyl ether			0.0250	5.0	0.0250	1	U
Methylene chloride			0.0340	1.0	0.0340	1	U
n-Butylbenzene			0.0130	1.0	0.0130	1	U
n-Propylbenzene			0.00900	1.0	0.00900	1	U
Naphthalene			0.0240	1.0	0.0240	1	U
o-Xylene			0.0140	1.0	0.0140	1	U
p-isopropyitoluene			0.0140	1.0	0.0140	1	U
sec-Butylbenzene			0.0170	1.0	0.0170	1	U
Styrene			0.0200	1.0	0.0200	1	U
tert-Butylbenzene			0.0160	1.0	0.0160	1	U
Tetrachloroethene		-	0.0300	1.0	0.0300	1	U
Toluene			0.0180	1.0	0.0180	1	U
trans-1,2-Dichloroethe	e		0.0270	1.0	0.0270	1	U
trans-1,3-Dichloroprop	bene		0.0290	1.0	0.0290	1	U
Trichloroethene	·		0.0270	1.0	0.0270	1	U
Trichlorofluoromethan	e		0.0200	1.0	0.0200	1	U
Vinyl chloride			0.0380	1.0	0.0380	1	U
Xylenes (total)			0.0420	2.0	0.0420	1	U

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Analytical Method:	SW8260B	Preparatory Method:		AAB #:	<u>R6783</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract #:		
Field Sample ID:	092606PE	Lab Sample ID:	0609018-013A	Matrix:	Groundwater Q
% Solids:	<u>0</u>	Initial Calibration ID:	<u>663</u>	File ID: J0070.1	D
Date Received:	27-Sep-06	Date Extracted:		Date Analyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight)	: <u>µg/L</u>		Sample Size:	10 mL
	Surrogate	Recovery	Control Limit	Qualifier	
1,2-Dicl	nloroethane-d4	91	72 - 119		
4-Brom	ofluorobenzene	108	76 - 119		
Dibrom	ofluoromethane	98	85 - 115		

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Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	508461	178690 - 714758	
Chlorobenzene-d5	523629	199960 - 799842	
Fluorobenzene	1646051	571263 - 2285052	

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#### Comments:

Toluene-d8

Analytical Method:	<u>SW8260B</u>	Preparato	ry Method:		AAB #:	<u>R</u>	<u>6783</u>
Lab Name:	Life Science Laboratories,	Inc.		Contract #:			
Field Sample ID:	092606PF	Lab Samp	le ID:	0609018-0	<u>14A</u> Ma	trix:	Groundwater Q
% Solids:	<u>0</u>	Initial Cali	bration ID:	<u>663</u>	File ID:	J0071.D	
Date Received:	27-Sep-06	Date Extra	icted:		Date Ana	lyzed:	02-Oct-06
Concentration Units	(ug/L or mg/Kg dry weight	): <u>µq</u>	<u>/L</u>		Sample	Size:	10 mL
	Analyte		MDL	RL	Concentration		Qualifier
(m+p)-Xylene	*		0.0280	2.0	0.0280	1	U
1,1,1,2-Tetrachloroeth	ane		0.0540	0.50	0.0540	1	U
1,1,1-Trichloroethane			0.0150	1.0	0.0150	1	U
1,1,2,2-Tetrachloroeth	ane		0.0810	0.50	0.0810	1	U
1,1,2-Trichloroethane	**************************************		0.0280	1.0	0.0280	1	υ
1,1-Dichloroethane			0.0330	1.0	0.0330	1	U
1,1-Dichloroethene			0.0460	1.0	0.0460	1	U
1,1-Dichloropropene			0.0240	1.0	0.0240	1	U
1,2,3-Trichlorobenzen	e		0.0360	1.0	0.0360	1	U
1,2,3-Trichloropropane			0.0460	1.0	0.0460	1	U
1,2,4-Trichlorobenzen	e		0.0250	1.0	0.0250	1	U
1,2,4-Trimethylbenzen	)¢		0.0120	1.0	0.0120	1	U
1,2-Dibromo-3-chlorop	propane		0.261	2.0	0.261	1	U
1,2-Dibromoethane			0.0350	1.0	0.0350	1	U
1,2-Dichlorobenzene			0.0190	1.0	0.0190 ·	1	U
1,2-Dichloroethane			0.0240	0.50	0.0240	1	U
1,2-Dichloropropane			0.0260	1.0	0.0260	1	U
1,3,5-Trimethylbenzen	16		0.0130	1.0	0.0130	1	U
1,3-Dichlorobenzene			0.0200	1.0	0.0200	1	U
1,3-Dichloropropane			0.0230	0.50	0.0230	1	U
1,4-Dichlorobenzene			0.0170	0.50	0.0170	1	U
1-Chlorohexane			0.0470	1.0	0.0470	1	U
2,2-Dichloropropane			0.0820	1.0	0.0820	1	U
2-Butanone			0.649	10	0.649	1	U
2-Chlorotoluene			0.0120	1.0	0.0120	1	U
4-Chiorotoluene			0.0170	1.0	0.0170	1	U
4-Methyl-2-pentanone		1111-111-11-11-11-11-11-11-11-11-11-11-	0.375	10	0.375	1	U
Acetone	**************************************		0.823	10	0.823	1	U
Benzene		······	0.0100	0.50	0.0100	1	U
Bromobenzene			0.0280	1.0	0.0280	1	U
Bromochloromethane			0.0590	1.0	0.0590	1	U
Bromodichloromethar	Æ		0.0310	0.50	0.0310	1	U
Bromoform			0.0470	1.0	0.0470	1	U

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Analytical Method:	SW8260B	Preparatory Method	:	AAB #:		R6783
Lab Name:	Life Science Labor	atories, Inc.	Contract #:			
Field Sample ID:	092606PF	Lab Sample ID:	0609018-01	1 <u>4A</u> Ma	atrix:	Groundwater Q
% Solids:	<u>0</u>	Initial Calibration ID	: <u>663</u>	File ID:	J0071.D	•
Date Received:	<u>27-Sep-06</u>	Date Extracted:		Date An	alvzed:	02-Oct-06
Concentration Units		weight): µg/L			-	
			<b>P</b>	Sample		10 mL
Bromomethane	Allalyte	MDL 0.0590	RL 3.0	Concentration 0.0590	1	n Qualifier U
Carbon tetrachloride		0.0320	1.0	0.0320	1	U U
Chlorobenzene			0.50	0.0320	1	U U
Chloroethane		0.0110	1.0	0.116	1	
Chloroform		0.0290	0.50	0.0290	1	U U
Chloromethane		0.126	1.0	0.126	1	U U
cis-1,2-Dichloroethene	a	0.0320	1.0	0.0320	1	
cis-1,3-Dichloroproper		0.0210	0.50	0.0320	1	U U
Dibromochloromethan		0.0210	0.50	0.0410	1	
Dibromomethane		0.0380	1.0	0.0380	1	
Dichlorodifluorometha	ne	0.0670	1.0	0.0670	1	
Ethylbenzene		0.0240	1.0	0.0240	1	<u> </u>
Hexachlorobutadiene		0.0610	0.60	0.0610	1	
Isopropyibenzene		0.0210	1.0	0.0210	1	- U
Methyl tert-butyl ether	·····	0.0250	5.0	0.0250	1	U
Methylene chloride		0.0340	1.0	0.0340	1	- Ŭ
n-Butylbenzene		0.0130	1.0	0.0130	1	
n-Propytbenzene	······	0.00900	1.0	0.00900	1	U U
Naphthalene		0.0240	1.0	0.0240	1	U
o-Xylene		0.0140	1.0	0.0140	1	
p-Isopropyitoluene	******	0.0140	1.0	0.0140	1	U
sec-Butylbenzene		0.0170	1.0	0.0170	1	
Styrene		0.0200	1.0	0.0200	1	
tert-Butylbenzene	······	0.0160	1.0	0.0160	1	
Tetrachloroethene		0.0300	1.0	0.0300	1	Ū
Toluene	·····	0.0180	1.0	0.0180	1	U
trans-1,2-Dichloroethe	ine	0.0270	1.0	0.0270	1	U
trans-1,3-Dichloroprop	ene	0.0290	1.0	0.0290	1	υ
Trichloroethene		0.0270	1.0	0.0270	1	υ
Trichlorofluoromethan	e	0.0200	1.0	0.0200	1	U
Vinyl chloride		0.0380	1.0	0.0380	1	U
Xylenes (total)		0.0420	2.0	0.0420	1	U

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Analytical Method:	<u>SW8260B</u>	Preparatory Method	-	AAB #:	<u>R6783</u>	
Lab Name:	Life Science Laboratories,	Inc.	Contract #:			
Field Sample ID:	092606PF	Lab Sample ID:	0609018-01	4A Ma	trix: Groundwater Q	-
% Solids:	<u>0</u>	Initial Calibration ID	<u>663</u>	File ID:	J0071.D	
Date Received:	<u>27-Sep-06</u>	Date Extracted:		Date Ana	alyzed: 02-Oct-06	
Concentration Units	(ug/L or mg/Kg dry weight)	): <u>µg/L</u>		Sample S	Size: 10 mL	-
	Surrogate	Recon	erý Con	trol Limits Q	ualifier	
1,2-Dich	loroethane-d4	91	7	2 - 119		
4-Bromo	ofluorobenzene	104	7	6 - 119		
Dibromo	offuoromethane	97	8	5 - 115		

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Internal Std	Area Counts	Area Count Limits	Qualifier	n h
1,4-Dichlorobenzene-d4	478330	178690 - 714758		C' i ( H
Chlorobenzene-d5	508216	199960 - 799842		Un alab
Fluorobenzene	1599491	571263 - 2285052	// ment for the second s	11300

Comments:

Toluene-d8

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Analytical Method:	<u>SW8260B</u>	Preparato	ry Method:		AAB #:	<u>R6</u>	<u>783</u>
Lab Name:	Life Science Laboratories,	Inc.		Contract #:			
Field Sample ID:	092606PR	Lab Samp	ole ID:	0609018-0	<u>15A</u> Ma	trix: <u>G</u>	roundwater Q
% Solids:	<u>0</u>	Initial Cal	ibration ID:	663	File ID:	J0072.D	
	_				Date Ana	പ്രംപം വ	2-Oct-06
Date Received:	<u>27-Sep-06</u>	Date Extra	acteo:		, Date Alla	iyacu. <u>v</u>	<u></u>
Concentration Units	(ug/L or mg/Kg dry weight	): <u>µc</u>	<u>1/L</u>		Sample S	Size:	10 mL
	Analyte		MOL	RL	Concentration	Dilution	Qualifier
(m+p)-Xylene			0.0280	2.0	0.0280	1	U
1,1,1,2-Tetrachloroeth	ane		0.0540	0.50	0.0540	1	U
1,1,1-Trichloroethane			0.0150	1.0	0.0150	1	<u> </u>
1,1,2,2-Tetrachloroeth	ane		0.0810	0.50	0.0810	1	U
1,1,2-Trichloroethane			0.0280	1.0	0.0280	1	U
1,1-Dichloroethane			0.0330	1.0	0.0330	1	U
1,1-Dichloroethene			0.0460	1.0	0.0460	1	U
1,1-Dichloropropene			0.0240	1.0	0.0240	1	U
1,2,3-Trichlorobenzen	8		0.0360	1.0	0.0360	1	U
1,2,3-Trichloropropane	2		0.0460	1.0	0.0460	1	U
1,2,4-Trichlorobenzen	8		0.0250	1.0	0.0250	1	U
1,2,4-Trimethylbenzer	16		0.0120	1.0	0.0120	1	U
1,2-Dibromo-3-chlorop	propane		0.261	2.0	0.261	1	U
1,2-Dibromoethane			0.0350	1.0	0.0350	1	U
1,2-Dichlorobenzene			0.0190	1.0	0.0190	1	U
1,2-Dichloroethane			0.0240	0.50	0.0240	1	U
1,2-Dichloropropane			0.0260	1.0	0.0260	1	U
1,3,5-Trimethylbenzer	10		0.0130	1.0	0.0130	1	U
1,3-Dichlorobenzene			0.0200	1.0	0.0200	1	U
1,3-Dichloropropane			0.0230	0.50	0.0230	1	U
1 4-Dichlorobenzene			0.0170	0.50	0.0170	1	U
1-Chlorohexane			0.0470	1.0	0.0470	1	U
2,2-Dichloropropane			0.0820	1.0	0.0820	1	U
2-Butanone			0.649	10	0.649	1	U
2-Chlorotoluene			0.0120	1.0	0.0120	1	U
4-Chlorotoluene			0.0170	1.0	0.0170	1	U
4-Methyl-2-pentanone	>		0.375	10	0.375	1	U
Acetone			0.823	10	0.823	1	U
Benzene			0.0100	0.50	0.0100	1	U
Bromobenzene	aanahaan dadhada dadda Aafa miiyiin ya Amigo maya kuwa kuma damaa dama ina addana miiya daana miiya aafaa aana		0.0280	1.0	0.0280	1	U
Bromochloromethane	)		0.0590	1.0	0.0590	1	U
Bromodichlorometha	ne		0.0310	0.50	0.0310	1	U
Bromoform		**************************************	0.0470	1.0	0.0470	1	U

Comments:

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Analytical Method:	SW8260B	Preparatory Met	nod:	AAB #:	R	6783
Lab Name:	Life Science Labor	atories, Inc.	Contract #	:		
Field Sample ID:	092606PR	Lab Sample ID:	060901	18-015A N	latrix:	Groundwater Q
% Solids:	<u>0</u>	Initial Calibration	n ID: <u>663</u>	File ID:	J0072.D	
Date Received:	27-Sep-06	Date Extracted:		Date Ar	nalyzed:	02-Oct-06
Concentration Units		weight): µg/L		Comple	Cime	10 mL
				Sample		
	Analyte	MC				
Bromomethane		0.05		0.0590	1	<u> </u>
Carbon tetrachloride		0.03		0.0320	1	U
Chlorobenzene		0.01		0.0110	1	U
Chloroethane		0.1		0.116	1	U
Chloroform		0.02		0.0290	1	U
Chloromethane		0.1		0.126	1	U
cis-1,2-Dichloroethene	<b>}</b>	0.03	320 1.0	0.0320	1	U
cis-1,3-Dichloroproper	ne	0.02	210 0.50	0.0210	1	U
Dibromochloromethan	10	0.04	10 0.50	0.0410	1	U
Dibromomethane		0.03	380 1.0	0.0380	1	U
Dichlorodifluorometha	пе	0.06	570 1.0	0.0670	1	U
Ethylbenzene		0.02	240 1.0	0.0240	1	U
Hexachlorobutadiene		0.00	610 0.60	0.0610	1	U
Isopropylbenzene		0.02	210 1.0	0.0210	1	<u> </u>
Methyl tert-butyl ether	, ,	0.0	250 5.0	0.0250	1	U
Methylene chloride		0.0	340 1.0	0.0340	1	U
n-Butylbenzene		0.0	130 1.0	0.0130	1	U
n-Propylbenzene	· · · · · · · · · · · · · · · · · · ·	0.00	900 1.0	0.00900	1	U
Naphthalene		0.0	240 1.0	0.0240	1	U
o-Xylene		0.0	140 1.0	0.0140	1	U
p-isopropyitoluene		0.0	140 1.0	0.0140	1	U
sec-Butylbenzene		0.0	170 1.0	0.0170	1	U
Styrene		0.0	200 1.0	0.0200	1	U
tert-Butylbenzene		0.0	160 1.0	0.0160	1	U
Tetrachloroethene		0.0	300 1.0	0.0300	1	U
Toluene		0.0	180 1.0	0.0180	1	U
trans-1,2-Dichloroethe	ene	0.0	270 1.0	0.0270	1	U
trans-1,3-Dichloropro			290 1.0	0.0290	1	U
Trichloroethene	•		270 1.0	0.0270	1	U
Trichlorofluoromethar	ne		200 1.0	0.0200	1	U
Vinyl chloride			380 1.0	0.0380	1	U
Xylenes (total)			420 2.0	0.0420	1	U

## Comments:

Comments:	CUN
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QAPP 4.0

<u>SW8260B</u>	Preparatory Method:		AAB #:	<u>R6783</u>
Life Science Laboratories	Inc. C	ontract#:		
092606PR	Lab Sample ID:	0609018-015A	Matrix:	Groundwater Q
<u>0</u>	Initial Calibration ID:	<u>663</u>	File ID: J0072.	)
<u>27-Sep-06</u>	Date Extracted:		Date Analyzed:	02-Oct-06
(ug/L. or mg/Kg dry weight)	<u>µа/1</u>		Sample Size:	10 mL
Surrogate	Recovery	Control Limits	Qualifier	
loroethane-d4	92	72 - 119		
fluorobenzene	104	76 - 119		
fluoromethane	97	85 - 115		
	Life Science Laboratories, 092606PR 0 27-Sep-06 (ug/L. or mg/Kg dry weight) Surrogate loroethane-d4 fluorobenzene	Life Science Laboratories, Inc.       C         092606PR       Lab Sample ID:         0       Initial Calibration ID:         27-Sep-06       Date Extracted:         (ug/L, or mg/Kg dry weight): <u>µg/L</u> Surrogate       Recovery         loroethane-d4       92         fluorobenzene       104	Life Science Laboratories, Inc.       Contract #:         092606PR       Lab Sample ID:       0609018-015A         0       Initial Calibration ID:       663         27-Sep-06       Date Extracted:         (ug/L. or mg/Kg dry weight):       µ0/L.         Surrogate       Recovery       Control Limits         fluorobenzene       104       76 - 119	Life Science Laboratories, Inc.     Contract #:       092606PR     Lab Sample ID:     0609018-015A     Matrix:       0     Initial Calibration ID:     663     File ID:     J0072.1       27-Sep-06     Date Extracted:     Date Analyzed:       (ug/L. or mg/Kg dry weight):     ug/L     Sample Size:       Surrogate     Recovery     Control Limits     Qualifier       fluorobenzene     104     76 - 119     104

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81 - 120

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	453520	178690 - 714758	
Chlorobenzene-d5	467122	199960 - 799842	
Fluorobenzene	1499781	571263 - 2285052	

Comments:

Toluene-d8

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# AFCEE ORGANIC ANALYSES DATA PACKAGE

Analytical Method:	<u>SW8270C</u>	AAB #:	3904
Lab Name:	Life Science Laboratories, Inc.	Contract Number:	
Base/Command:		Prime Contractor:	FPM Group

Field Sample ID	Lab Sample (D
TF3M119R12PA	0609018-005C
TF3M121R12PA	0609018-006C
092606PE	0609018-013C

#### Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature:	Moniko Sanfucci	Name:	Monika Santucci	
Date:	10/30/04	Title:	Project Manager	
D	AFCEE	FORM 0-1	Page 1 of 2	

QAPP 4.0

# AFCEE ORGANIC ANALYSES DATA PACKAGE

Analytical Method:	<u>SW8270C</u>	AAB #:	<u>3922</u>
Lab Name:	Life Science Laboratories, Inc.	Contract Number:	
Base/Command:		Prime Contractor:	FPM Group

Field Sa	nple ID Lab Sample ID
TF3M121R12PA	0609018-006C

#### Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature:	Mouka Jantucei	Name:	Monika Santucci	
Date:	40/32/06	Title:	Project Manager	
QAPP 4.0	AFCEE FC	DRM 0-1	Page 2 of 2	

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Analytical Method:	<u>SW8270C</u>	Preparatory Method:	<u>SW3520C</u>	AAB #:	<u>3</u>	904
Lab Name:	Life Science Laboratories, Inc.		Contract #:			
Field Sample ID:	TF3M119R12PA	Lab Sample ID:	0609018-00	) <u>5C</u> Ma	trix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID	<u>686</u>	File ID:	N5143.D	
Date Received:	27-Sep-06	Date Extracted:	<u>27-Sep-06</u>	Date Ana	lyzed:	<u>29-Sep-06</u>
Concentration Units	(ug/L or mg/Kg dry wei	ght): <u>µg/L</u>		Sample S	Size:	1000 mL
	Analyte	MDL	RL	Concentration	Dilution	1 Qualifier
1,2,4-Trichlorobenzen		0.10	10	0.10	1	U
1,2-Dichlorobenzene		0.07	10	0.07	1	U
1,3-Dichlorobenzene		0.06	10	0.06	1	U
1,4-Dichlorobenzene		0.07	10	0.07	1	U
2,4,5-Trichlorophenol	997	0.14	50	0.14	1	U
2,4,6-Trichlorophenol	******	0.10	10	0.10	1	U
2,4-Dichlorophenol		0.08	10	0.08	1	U
2,4-Dimethylphenol		0.25	10	0.25	1	U
2,4-Dinitrophenol		0.27	50	0.27	1	U
2,4-Dinitrotoluene		0.14	10	0.14	1	U
2,6-Dinitrotoluene		0.20	10	0.20	1	U
2-Chloronaphthalene		0.11	10	0.11	1	U
2-Chlorophenol		0.12	10	0.12	1	U
2-Methylnaphthalene		0.05	10	0.05	1	U
2-Methylphenol	and the second	0.07	10	0.07	1	U
2-Nitroaniline	<b></b>	0.20	50	0.20	1	U
2-Nitrophenol		0.07	10	0.07	1.	U
3,3'-Dichlorobenzidine	9	0.51	20	0.51	1	U
3-Nitroaniline		0.08	50	0.08	1	U
4,6-Dinitro-2-methylph	ienol	0.35	50	0.35	1	U
4-Bromophenyl pheny	i ether	0.15	10	0.15	1	U
4-Chloro-3-methylphe	nol	0.08	20	0.08	1	U
4-Chloroaniline		0.10	20	0.10	1	U
4-Chlorophenyi pheny	i ether	0.12	10	0.12	1	U
4-Methylphenol		0.11	50	0.11	1	U
4-Nitroaniline		0.19	50	0.19	1	U
4-Nitrophenol		0.40	50	0.40	1	U
Acenaphthene	A	0.08	10	0.560	1	F
Acenaphthylene		0.10	10	0.10	1	U
Anthracene		0.14	10	0.14	1	U
Benzo[a]anthracene		0.08	10	0.08	1	U
Benzo[a]pyrene	······································	0.15	10	0.15	1	U
Benzo[b]fluoranthene		0.50	10	0.50	1	U

Comments:

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Analytical Method:	<u>SW8270C</u>	Preparato	ory Method:	<u>SW3520C</u>	AAB #:	39	904
Lab Name:	Life Science Laboratories,	Inc.		Contract #:			
Field Sample ID:	TF3M119R12PA	Lab Samp	ole ID:	0609018-0	<u>05C</u> Ma	trix:	Groundwater
% Solids:	<u>0</u>	Initial Cal	ibration ID:	<u>686</u>	File ID:	N5143.D	
Date Received:	27-Sep-06	Date Extr	acted:	<u>27-Sep-06</u>	Date Ana	lyzed:	<u>29-Sep-06</u>
Concentration Units (	(ug/L or mg/Kg dry weight)	: <u>uc</u>	<u>1/L</u>		Sample S	Size:	1000 mL
	Analyte		MDL	RL.	Concentration	Dilution	Qualifier
Benzo[g,h,i]perylene			0.10	10	0.10	1	U
Benzo[k]fiuoranthene			0.33	10	0.33	1	U
Benzoic acid			5.19	100	5.19	1	U
Benzyl alcohol			0.11	20	0.11	1	U
bis(2-Chloroethoxy)me	thane		0.10	10	0.10	1	U
bis(2-chloroethyl)ether			0.04	10	0.04	1	U
bis(2-chloroisopropyl)e	ether		0.13	10	0.13	1	U
bis(2-Ethylhexyl)phtha	late		0.45	10	0.820	1	F
Butyl benzyl phthalate			0.16	10	0.16	1	U
Chrysene			0.08	10	0.08	1	υ
Di-n-butyl phthalate			1.58	10	1.58	1	U
Di-n-octyl phthalate	······································		0.18	10	0.18	1	U
Dibenz[a,h]anthracene	3		0.09	10	0.09	1	U
Dibenzofuran	· · · · · · · · · · · · · · · · · · ·		0.14	10	0.14	1	U
Diethyl phthalate			0.13	10	0.13	1	U
Dimethyl phthalate			0.10	10	0.10	1	U .
Fluoranthene	· · · · · · · · · · · · · · · · · · ·		0.06	10	0.700	1	F
Fluorene			0.11	10	0.11	1	U
Hexachlorobenzene			0.11	10	0.11	1	υ
Hexachlorobutadiene			0.13	10	0.13	1	U
Hexachloroethane			0.08	10	0.08	1	U
Indeno[1,2,3-cd]pyren	6		0.09	10	0.09	1	U
Isophorone			0.12	10	0.12	1	U
N-Nitroso-di-n-propyla	mine		0.15	10	0.15	1	U
N-Nitrosodiphenylami	ne		0.08	10	0.08	1	U
Naphthalene	—,—,—,—,—,—,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.06	10	0.06	1	U
Nitrobenzene	·····		0.12	10	0.12	1	U
Pentachlorophenol			0.23	50	0.23	1	U
Phenanthrene			0.10	10	0.10	1	U
Phenol	• • • • • • • • • • • • • • • • • • •		0.09	10	0.09	1	U
Pyrene			0.07	10	0.660	1	F

Comments:	Surrogate Recovery Control Limits Qualifier	Cint
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Analytical Method:	SW8270C	Preparatory Method: <u>SW3520C</u>		AAB #:	3904
Lab Name:	Life Science Laboratories,	Inc. C	Contract #:		
Field Sample ID:	TF3M119R12PA	Lab Sample ID:	0609018-005C	Matrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID:	<u>686</u>	File ID: N5143	.D
Date Received:	27-Sep-06	Date Extracted:	27-Sep-06	Date Analyzed:	29-Sep-06
Concentration Units (ug/L or mg/Kg dry weight): µg/L Sample Size: 1000 mL					

Surrogate	Recovery	Control Limits Qualifier	
2,4,6-Tribromophenol	115	42 - 124	
2-Fluorobiphenyl	79	48 - 120	
2-Fluorophenol	76	20 - 120	
Nitrobenzene-d5	90	41 - 120	
Phenol-d5	82	20 - 120	
Terphenyl-d14	88	51 - 135	-

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	195715	106288 - 425152	
Acenaphthene-d10	381877	197321 - 789284	
Chrysene-d12	508780	257362 - 1029448	
Naphthalene-d8	704311	372642 - 1490570	
Perylene-d12	431500	212374 - 849496	
Phenanthrene-d10	641125	321928 - 1287714	

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Comments:

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Analytical Method:	SW8270C	Preparato	ory Method:	SW3520C	AAB #:	<u>39</u>	04	
Lab Name:	Life Science Laborator	ies, Inc.		Contract #:				
Field Sample ID:	TF3M121R12PA	Lab Sam	ple ID:	<u>0609018-0</u>	06C Mat	rix:	Groundwater	
% Solids:	<u>0</u>	Initial Cal	libration ID:	<u>686</u>	File ID:	N5144.D		
Date Received:	<u>27-Sep-06</u>	Date Extr	acted:	27-Sep-06	Date Ana	lyzed:	29-Sep-06	
Concentration Units	(ug/L or mg/Kg dry wei	ght): 😐	<u>a/L</u>		Sample S	Size:	910 mL	
	Analyte		MDL	RL	Concentration	Dilution	Qualifier	,
1.2.4-Trichlorobenzen			0.11	11	0.11	1	υ	
1,2-Dichlorobenzene	<u>.</u>		0.08	11	0.08	1	J U	<pre>/</pre>
1.3-Dichlorobenzene			0.07	11	0.07	1	U N	÷
1.4-Dichlorobenzene			0.08	11	0.08	1	<u> </u>	
2,4,5-Trichlorophenol	• • • • • • • • • • • • • • • • • • •		0.00	55	0.15	1	LU	
2,4,6-Trichlorophenol			0.13	11	0.11	1	uj	
2,4-Dichlorophenol			0.09	11	0.09	1		
2,4-Dimethylphenol			0.27	11	0.27	1	/ U	
2,4-Dinitrophenol			0.30	55	0.30	1	1 UJ	
2,4-Dinitrotoluene			0.15	11	0.15	1	U	
2,6-Dinitrotoluene			0.22	11	0.22	1	/ U	
2-Chloronaphthalene			0.12	11	0,12	1/	U	
2-Chlorophenol			0.13	11	0.13	1/	U	
2-Methylnaphthalene			0.05	11	0.05	1	U	
2-Methylphenol			0.08	11	0.08	11	U	
2-Nitroaniline			0.22	55	0.22	71	U	
2-Nitrophenol			0.08	11	0.08	/ 1	U	
3,3'-Dichlorobenziding	8		0.56	22	0.56	1	υ	
3-Nitroaniline			0.09	55	0.09 /	1	U	
4,6-Dinitro-2-methylph	nenol		0.38	55	0.38	1	UJ	
4-Bromophenyl pheny	/i ether		0.16	11	0.16	1	U	
4-Chloro-3-methylphe	nol		0.09	22	0.09	1	UJ	
4-Chloroaniline			0.11	22	0.11	1	U	
4-Chlorophenyl pheny	/l ether		0.13	11	0/13	1	U	
4-Methylphenol			0.12	55	<u>\0.12</u>	1	U	
4-Nitroaniline			0.21	55	0.21	1	U	
4-Nitrophenol			0.44	55	0.44	1	UJ	
Acenaphthene	#//#//www.allowed.com		0.09	11	∑ 0.09	1	U	
Acenaphthylene			0.11	11	°∕⊂ 0.11	1	<u> </u>	
Anthracene			0.15	11	<i>∱</i> √ 0.15	1	U	
Benzo[a]anthracene			0.09	11	0.09	1	U	
Benzo[a]pyrene			0.16	11 /	0.16	1	U	
Benzo[b]fluoranthene	•		0.55	11	0.55	1	U	
• ·				<i>r</i>				

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Analytical Method:	SW8270C	Preparatory Method	I: <u>SW3520C</u>	AAB #:	<u>3</u> :	904
Lab Name:	Life Science Laboratories,	Inc.	Contract #:			
Field Sample ID:	TF3M121R12PA	Lab Sample ID:	0609018-00	<u>06C</u> Ma	trix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration II	): <u>686</u>	File ID:	N5144.D	
Date Received:	27-Sep-06	Date Extracted:	27-Sep-06	Date Ana	lyzed:	<u>29-Sep-06</u>
Concentration Units	(ug/L or mg/Kg dry weight)	: <u>µg/L</u>		Sample	Size:	910 mL
	Analyte	MDL	RL	Concentration	Dilution	n Qualifier
Benzo[g,h,i]perviene		0.11	11	0.11	1	U
Benzo[k]fluoranthene		0.36	11	0.36	1	U
Benzoic acid		5.70	110	5.70	1	U
Benzyi alcohol		0.12	22	0.12	1	U
bis(2-Chloroethoxy)m	ethane	0.11	11	0.11	1	U
bis(2-chloroethyl)ethe		0.04	11	0.04	1	U
bis(2-chloroisopropyl)		0.14	11	0.14	1	U
bis(2-Ethylhexyl)phtha		0.49	11	0.824	1	F
Butyl benzyl phthalate	·····	0.18	11	0.18	1	U
Chrysene		0.09	11	0.09	1	U
Di-n-butyl phthalate		1.74	11	1.74	1	U
Di-n-octyl phthalate		0.20	11	0.20	1	U
Dibenz[a,h]anthracen	8	0.10	11	0.10	1	U
Dibenzofuran		0.15	11	0.15	1	U
Diethyl phthalate		0.14	11	0.14	1	U
Dimethyl phthalate		0.11	11	0.11	1	U
Fluoranthene		0.07	11	0.07	1	U
Fluorene		0.12	11	0.12	1	U
Hexachlorobenzene		0.12	11	0.12	1	U
Hexachlorobutadiene		0.14	11	0.14	1	U
Hexachloroethane		0.09	11	0.09	1	U
Indeno[1,2,3-cd]pyrei	ne	0.10	11	0.10	1	U
isophorone		0.13	11	0.13	1	U
N-Nitroso-di-n-propyl	amine	0.16	11	0.16	1	υ
N-Nitrosodiphenylam		0.09	11	0.09	1	<u> </u>
Naphthalene		0.07	11	0.07	1	U
Nitrobenzene		0.13	11	0.13	1	υ
Pentachlorophenol		0.25	55	0.25	1	UJ
Phenanthrene		0.11	11	0.11	1	U
Phenol		0.10	11	0.10	1	U
Pyrene	//////	0.08	11	0.08	1	U

Surrogate Recovery Control Limits Qualifier	CUNK.
Comments:	11/31
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Analytical Method	: <u>SW8270C</u>	Preparatory Method:	<u>SW35</u>	520C	AAB #:	<u>3904</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract	#:		
Field Sample ID:	TF3M121R12PA	Lab Sample ID:	06090	)18-006C	Matrix:	Groundwater
% Solids:	<u>0</u>	Initial Calibration ID:	<u>686</u>		File ID: N5144	.D
Date Received:	27-Sep-06	Date Extracted:	27-Se	p-0 <u>6</u>	Date Analyzed:	<u>29-Sep-06</u>
Concentration Un	its (ug/L or mg/Kg dry weight)	: <u>µg/L</u>			Sample Size:	910 mL
	Surrogate	Recov	ery –	<b>Control Limits</b>	Qualifier	
2,4,6	-Tribromophenol	18		42 - 124	*	
2-Flu	orobiphenyl	84		48 - 120		
2-Fh	orophenol	50		20 - 120		
Nitro	benzene-d5	91		41 - 120		
Pher	nol-d5	62		20 - 120		
Terp	henyi-d14	61		51 - 135		
		·····				
	Internal Std	Area Counts	Area Co	unt Limits	Qualifier	N.
1,4-[	Dichlorobenzene-d4	174689	106288	- 425152		NAK .
Acer	haphthene-d10	343716	197321	- 789284	1	Non
Chry	sene-d12	445776	257362	- 1029448		11-11
						\ ·

632061

360627

574402

372642 - 1490570

212374 - 849496

321928 - 1287714

Comments:

Naphthalene-d8

Phenanthrene-d10

Perylene-d12

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Analytical Method:	SW8270C	Preparat	iory Method:	<u>SW3520C</u>	AAB #:		<u>3904</u>
Lab Name:	Life Science Laboratorie	<u>s, Inc.</u>		Contract #:			
Field Sample ID:	092606PE	Lab Sam	iple ID:	<u>0609018-(</u>	) <u>13C</u> N	latrix:	Groundwater (
% Solids:	<u>0</u>	Initial Ca	libration ID:	<u>686</u>	File ID:	N5145.0	)
Date Received:	27-Sep-06	Date Ext	racted:	27-Sep-06	Date Ar	alyzed:	29-Sep-06
Concentration Units	(ug/L or mg/Kg dry weigh	t): u	g/L			-	<u></u>
	Analyte		MDL	<u> </u>	Sample		940 mi
1,2,4-Trichlorobenzen			0.11	RL 11	Concentration	Dilutio	
1,2-Dichlorobenzene		······	0.07	-	0.11	1	U
1,3-Dichlorobenzene			0.07	11	0.07	1	U
1,4-Dichlorobenzene	, /		0.00	11	0.06	1	<u> </u>
2,4,5-Trichlorophenol			······	11	0.07	1	<u> </u>
2,4,6-Trichlorophenol	······		0.15	53	0.15	1	<u>U</u>
2,4-Dichlorophenol			0.09	11	0.11	1	U
2,4-Dimethylphenol				11	0.09	1	U
2,4-Dinitrophenol			0.27	11	0.27	1	U
2,4-Dinitrotoluene			0.29	53	0.29	1	<u> </u>
2,6-Dinitrotoluene	······································		0.15	11	0.15	1	<u> </u>
2-Chloronaphthalene			0.21	11	0.21	1	U
2-Chlorophenol			0.12	11	0.12	1	U
2-Methylnaphthalene			0.13	11	0.13	1	<u> </u>
2-Methylphenol	· · · · · · · · · · · · · · · · · · ·		0.05	11	0.05	1	U
2-Nitroaniline			0.07	11	0.07	1	<u> </u>
2-Nitrophenol			0.21	53	0.21	1	<u> </u>
3,3'-Dichlorobenzidine	<u> </u>		0.07	11	0.07	1	U
3-Nitroaniline			0.54	21	0.54	1	<u> </u>
4,6-Dinitro-2-methylphe	Inde		0.09	53	0.09	1	<u> </u>
4-Bromophenyl phenyl			0.37	53	0.37	1	U
4-Chloro-3-methylphen		·////	0.16	11	0.16	1	<u>U</u>
4-Chloroaniline			0.09	21	0.09	1	U
4-Chlorophenyl phenyl	ether		0.11	21	0.11	1	U
4-Methylphenol	~ C F&1		0.13	11	0.13	1	U
4-Nitroaniline			0.12	53	0.12	1	U
4-Nitrophenol			0.20	53	0.20	1	U
Acenaphthene			0.43	53	0.43	1	υ
Acenaphthylene	n 1999 / /		0.09	11	0.09	1	U
Anthracene			0.11	11	0.11	1	U
Benzo[a]anthracene			0.15	11	0.15	1	U
Benzo[a]pyrene	. A makeye 1979		0.09	11	0.09	1	U
Benzo[b]fluoranthene			0.16	11	0.16	1	U
omments:			0.53	11	0.53	1	U

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Analytical Method:	<u>SW8270C</u>	Preparatory Method:	<u>SW3520C</u>	AAB #:	3922
Lab Name:	Life Science Laboratories.	Inc. (	Contract #:		
Field Sample ID:	TF3M121R12PA	Lab Sample ID:	0609018-006C	Matrix:	Groundwater
% Solids:	Q	Initial Calibration ID:	<u>686</u>	File ID: N5209.	D
Date Received:	27-Sep-06	Date Extracted:	02-Oct-06	Date Analyzed:	05-Oct-06
Concentration Units (ug/L or mg/Kg dry weight): ug/L Sample Size: 1000 mL					

Surrogate	Recovery	Control Limits	Qualifier
2,4,6-Tribromophenol	26	42 - 124	* /
2-Fluorobiphenyl	60	48 - 120	
2-Fluorophenol	43	20 - 120	
Nitrobenzene-d5	78	41 - 120	
Phenol-d5	52	20 - 120	
Terphenyl-d14	64	51 - 135	/

Internal Std	Area Counts	Area Count Limits Qualifier
1,4-Dichlorobenzene-d4	120416	106288 - 425152
Acenaphthene-d10	243964	197321 - 789284
Chrysene-d12	411626	257362 - 1029448
Naphthalene-d8	411844	372642 - 1490570
Perylene-d12	380214	212374 - 849496
Phenanthrene-d10	437381	321928 - 1287714

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Comments:

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Analytical Method:	SW8270C	Preparatory Method	d: <u>SW3520C</u>	2 AAB #:	<u>39</u>	<u>04</u>
Lab Name:	Life Science Laboratories,	Inc.	Contract #:			
Field Sample ID:	092606PE	Lab Sample ID:	<u>0609018-(</u>	0 <u>13C</u> Ma	trix: (	Groundwater Q
% Solids:	<u>0</u>	Initial Calibration ID	): <u>686</u>	File ID:	N5145.D	
Date Received:	27-Sep-06	Date Extracted:	27-Sep-06			00 500 06
Concentration Units	(ug/L or mg/Kg dry weight):				iyzeti. 🐇	29-Sep-06
				Sample S	Size:	940 mL
Benzola b ilpopulare	Analyte	MDL	RL	Concentration	Dilution	Qualifier
Benzo[g,h,i]perylene		0.11	11	0.11	1	U U
Benzo[k]fluoranthene Benzoic acid		0.35	11	0.35	1	U
		5.52	110	5.52	1	U
Benzyl alcohol		0.12	21	0.12	1	U
bis(2-Chloroethoxy)me		0.11	11	0.11	1	U
bis(2-chloroethyl)ether		0.04	11	0.04	1	U
bis(2-chloroisopropyl)e		0.14	11	0.14	1	U
bis(2-Ethylhexyl)phthal	ate	0.48	11	0.840	1	F
Butyl benzyl phthalate		0.17	11	0.17	1	U
Chrysene		0.09	11	0.09	- 1	U
Di-n-butyl phthalate		1.68	11	1.68	1	U
Di-n-octyl phthalate		0.19	11	0.19	1	<u> </u>
Dibenz[a,h]anthracene	· · · · · · · · · · · · · · · · · · ·	0.10	11	0.10	1	U
Dibenzofuran	······································	0.15	11	0.15	1	U
Diethyl phthalate		0.14	11	0.14	1	U
Dimethyl phthalate		0.11	11	0.11	1	- U
Fluoranthene	· · ·	0.06	11	0.06	1	U
Fluorene		0.12	11	0.12	1	U
Hexachlorobenzene		0.12	11	0.12	1	U
Hexachlorobutadiene		0.14	11	0.14	1	U U
Hexachloroethane		0.09	11	0.09	1	U
Indeno[1,2,3-cd]pyrene		0.10	11	0.10	1	U
Isophorone		0.13	11	0.13	1	U
N-Nitroso-di-n-propylan	nine	0.16	11	0.16	1	U
N-Nitrosodiphenylamine	3	0.09	11	0.09	<u>-</u>	U U
Naphthalene		0.06	11	0.06	1	U
Nitrobenzene		0.13	11	0.13	1	UU
Pentachlorophenol		0.24	53	0.13	1	U U
Phenanthrene		0.11	11	0.11	1	U
Phenol	1	0.10	11	0.10	1	U
Pyrene		0.07	11	0.07	1	
				0.07		U

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Analytical Method:	<u>SW8270C</u>	Preparatory Method:	SW3520C	AAB #:	3904
Lab Name:	Life Science Laboratories,	Inc. C	Contract #:		
Field Sample ID:	092606PE	Lab Sample ID:	0609018-013C	Matrix:	Groundwater Q
% Solids:	<u>0</u>	Initial Calibration ID:	<u>686</u>	File ID: N5145	D
Date Received:	27-Sep-06	Date Extracted:	27-Sep-06	Date Analyzed:	<u>29-Sep-06</u>
Concentration Units (ug/L or mg/Kg dry weight): ug/L Sample Size: 940 mL					

Surrogate	Recovery	Control Limits Qua	lifier
2,4,6-Tribromophenol	102	42 - 124	
2-Fluorobiphenyi	78	48 - 120	
2-Fluorophenol	77	20 - 120	
Nitrobenzene-d5	87	41 - 120	
Phenol-d5	80	20 - 120	
Terphenyl-d14	97	51 - 135	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	168311	106288 - 425152	
Acenaphthene-d10	328290	197321 - 789284	
Chrysene-d12	433643	257362 - 1029448	
Naphthalene-d8	605604	372642 - 1490570	
Perylene-d12	342563	212374 - 849496	
Phenanthrene-d10	550649	321928 - 1287714	

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# AFCEE WET CHEM ANALYSES DATA PACKAGE

Analytical Method:	<u>E310.1</u>	AAB #:	<u>R6847</u>
Lab Name:	Life Science Laboratories, Inc.	Contract Number:	
Base/Command:		Prime Contractor:	FPM Group
	Field Sample ID	Lab Sample ID	
	TF3CE313PA	0609018-001B	
	TF3M2114PA	0609018-002B	
	TF3M11614PA	0609018-003B	
	TF3M11713PA	0609018-004B	
	TF3M119R12PA	0609018-005B	
	TF3M121R12PA	0609018-006B	
	TF3M12314PA	0609018-007B	
	TF3M12614PA	0609018-008B	
	TF3M12713PA	0609018-009B	*****
	TF3M12814PA	0609018-010B	· — · · · · · · · · · · · · · · · · · ·
	TF3M13316PA	0609018-011B	
	TF3M13316PC	0609018-012B	
	092606PE	0609018-013B	

#### Comments:

I certify this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager's designee, as verified by the following signature.

Signature:	Monika Santucei	Name:	Monika Santucci
Date:	10/30/06	Title:	Project Manager

QAPP 4.0

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Analytical Method:	E310.1		AAB #:	R6847		
Lab Name:	Life Science Laboratories,	inc. Co	ontract #:			
Field Sample ID:	TF3CE313PA	Lab Sample ID:	0609018-0	001B	Matrix:	Groundwater
% Solids:	0	Initial Calibration ID:	0			
Date Received:	27-Sep-06	Date Prepared:			Date Analyzed:	03-Oct-06
Concentration Units (mg/L or mg/kg dry weight): mg/L						

Analyte	MDL	RL	Concentration	Dilution	"Qualifier"
Alkalinity, Total (As CaCO3)	10	10	250	1	

Analytical Method:	E310.1		AAB #:	R6847		
Lab Name:	Life Science Laboratories,	Inc. C	Contract #:			
Field Sample ID:	TF3M2114PA	Lab Sample ID:	0609018-4	002B	Matrix:	Groundwater
% Solids:	0	Initial Calibration ID	: 0			
Date Received:	27-Sep-06	Date Prepared:			Date Analyzed:	03-Oct-06
<b>Concentration Units</b>	(mg/L or mg/kg dry weight	): mg/L				

Analyte	MDL	RL	Concentration	Dilution Qualifier	
Alkalinity, Total (As CaCO3)	10	10	240	1	

Comments:

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Analytical Method:	E310.1		AAB #:	R6847		
Lab Name:	Life Science Laboratories,	Inc.	Contract #:			
Field Sample ID:	TF3M11614PA	Lab Sample ID:	0609018-	003B	Matrix:	Groundwater
% Solids:	0	Initial Calibration I	D: 0			
Date Received:	27-Sep-06	Date Prepared:			Date Analyzed:	03-Oct-06
Concentration Units	(mg/L or mg/kg dry weight	): mg/L				

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Alkalinity, Total (As CaCO3)	10	10	250		

Comments:

AFCEE FORM W-2

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Analytical Method:	E310.1		AAB #:	R6847	·	
Lab Name:	Life Science Laboratories,	Inc.	Contract #:			
Field Sample ID:	TF3M11713PA	Lab Sample ID:	0609018-	004B	Matrix:	Groundwater
% Solids:	0	Initial Calibration	ID: 0			
Date Received:	27-Sep-06	Date Prepared:			Date Analyzed:	03-Oct-06
Concentration Units	(mg/L or mg/kg dry weight	): mg/L				

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Alkalinity, Total (As CaCO3)	10	10	280	1	
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				WH.	
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## Comments:

AFCEE FORM W-2

Analytical Method:	E310.1		AAB #:	R6847		
Lab Name:	Life Science Laboratories,	Inc. Cor	ntract #:			
Field Sample ID:	TF3M119R12PA	Lab Sample ID:	0609018-(	005B	Matrix:	Groundwater
% Solids:	0	Initial Calibration ID:	0			
Date Received:	27-Sep-06	Date Prepared:			Date Analyzed:	03-Oct-06

Concentration Units (mg/L or mg/kg dry weight): mg/L

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Alkalinity, Total (As CaCO3)	10	10	210	1	

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Analytical Method:	E310.1		AAB #:	R6847		
Lab Name:	Life Science Laboratories,	Inc. C	ontract #:			
Field Sample ID:	TF3M121R12PA	Lab Sample ID:	0609018-0	)06B	Matrix:	Groundwater
% Solids:	0	Initial Calibration ID	: 0			
Date Received:	27-Sep-06	Date Prepared:			Date Analyzed:	03-Oct-06
Concentration Units	(mg/L or mg/kg dry weight	): mg/L				

Analyte	MDL	RL	Concentration	Dilution	eneritte:
Alkalinity, Total (As CaCO3)	10	10	280	1	
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Analytical Method:	E310.1		AAB #:	R6847		
Lab Name:	Life Science Laboratories	, Inc. Co	ontract #:			
Field Sample ID:	TF3M12314PA	Lab Sample ID:	0609018-0	007B	Matrix:	Groundwater
% Solids:	0	Initial Calibration ID:	0			
Date Received:	27-Sep-06	Date Prepared:			Date Analyzed:	03-Oct-06
<b>Concentration Units</b>	(mg/L or mg/kg dry weigh	t): mg/L				

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Alkalinity, Total (As CaCO3)	10	10	200	1	

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Analytical Method:	E310.1			AAB #:	R6847		
Lab Name:	Life Science Laboratories,	Inc.	Cor	tract #:			
Field Sample ID:	TF3M12614PA	Lab Sample ID:		0609018-(	)08B	Matrix:	Groundwater
% Solids:	0	Initial Calibration	ID:	0			
Date Received:	27-Sep-06	Date Prepared:				Date Analyzed:	03-Oct-06
<b>Concentration Units</b>	(mg/L or mg/kg dry weight	): mg/L					

Analyte	MDL	RL	Concentration	Dilution Qualifier	
Alkalinity, Total (As CaCO3)	10	10	260		

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Analytical Method:	E310.1		A	AB #:	R6847		
Lab Name:	Life Science Laboratories,	Inc.	Contr	act #:			
Field Sample ID:	TF3M12713PA	Lab Sample ID:		0609018-0	09B	Matrix:	Groundwater
% Solids:	0	Initial Calibration	ID:	0			
Date Received:	27-Sep-06	Date Prepared:				Date Analyzed:	03-Oct-06
Concentration Units	(mg/L or mg/kg dry weight	): mg/L					

Analyte	MDL	RL	Concentration	Dilution	Qualifier	
Alkalinity, Total (As CaCO3)	10	10	380	1		

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Comments:

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Analytical Method:	E310.1		AAB #:	R6847		
Lab Name:	Life Science Laboratories	, Inc. C	ontract #:			
Field Sample ID:	TF3M12814PA	Lab Sample ID:	0609018-0	010B	Matrix:	Groundwater
% Solids:	0	Initial Calibration ID:	: 0			
Date Received:	27-Sep-06	Date Prepared:			Date Analyzed:	03-Oct-06
Concentration Units	(mg/L or mg/kg dry weigh	:): mg/L				

Analyte	MDL	RL	Concentration	Dilution	Qualifier	
Alkalinity, Total (As CaCO3)	10	10	400	1		

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Analytical Method:	E310.1		AAB #:	R6847		
Lab Name:	Life Science Laboratories,	Inc.	Contract #:			
Field Sample ID:	TF3M13316PA	Lab Sample ID:	0609018-	-011B	Matrix:	Groundwater
% Solids:	0	Initial Calibration	ID: 0			
Date Received:	27-Sep-06	Date Prepared:			Date Analyzed:	03-Oct-06
<b>Concentration Units</b>	(mg/L or mg/kg dry weight	): mg/L				

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Alkalinity, Total (As CaCO3)	10	10	330	1	
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				CUB	1
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Analytical Method:	E310.1		AAB #:	R6847			
Lab Name:	Life Science Laboratories,	inc.	Contract #:				
Field Sample ID:	TF3M13316PC	Lab Sample ID:	0609018-(	012B	Natrix:	Groundwater	
% Solids:	0	Initial Calibration II	D: 0				
Date Received:	27-Sep-06	Date Prepared:			Date Analyzed:	03-Oct-06	
Concentration Units	mg/L or mg/kg dry weight	: mg/L					

Analyte	MDL	RL	Concentration	Dilution	Qualifier
Alkalinity, Total (As CaCO3)	10	10	330	1	

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Analytical Method:	E310.1		AAB #:	R6847		
Lab Name:	Life Science Laboratories,	Inc. C	Contract #:			
Field Sample ID:	092606PE	Lab Sample ID:	0609018-	013B	Matrix:	Groundwater Q
% Solids:	0	Initial Calibration ID	: 0			
Date Received:	27-Sep-06	Date Prepared:			Date Analyzed:	03-Oct-06
Concentration Units (	mg/L or mg/kg dry weight	): mg/L				

Analyte	MOL	RL	Concentration	Dilution	Qualifier	ļ
Alkalinity, Total (As CaCO3)	10	10	10	1	U	

Comments:

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