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NAS CECIL FIELD, FL
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SECOND QUARTER 2009 LONG TERM MONITORING REPORT FOR NORTH FUEL FARM

NAS CECIL FIELD FL
12/1/2009
SOLUTIONS-IES INC

SECOND QUARTER 2009
LONG-TERM MONITORING REPORT

NORTH FUEL FARM
FORMER NAS CECIL FIELD
JACKSONVILLE, FL

CONTRACT NO. N62467-05-G-0193
CONTRACT TASK ORDER NO. 0003

Prepared for:

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DECEMBER 1, 2009

Solutions-IES
Industrial & Environmental Services

SIGNATURE PAGE

We, the undersigned, do hereby affirm that the information contained in this report is accurate and correct to the best of our knowledge and belief.

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1.0 INTRODUCTION

Solutions-IES, Inc. (Solutions-IES) has been contracted by the Navy (NAVFAC Southeast), to provide long-term groundwater monitoring and operation and maintenance (O&M) services at North Fuel Farm (NFF), Former Naval Air Station (NAS) Cecil Field, Jacksonville, Florida, under Basic Ordering Agreement (BOA) Contract Number N62467-05-G-0193, Contract Task Order Number 0003. Under this contract, Solutions-IES performs quarterly groundwater monitoring. Solutions-IES took over the O&M of the air sparge (AS) system in March 2009. This Second Quarter Monitoring Report summarizes the O&M activities conducted from March through June 2009 and the groundwater sampling activities conducted at the site on June 10, 2009.

1.1 SITE LOCATION AND DESCRIPTION

The site is located at the northeast corner of Aviation Avenue and Loop Road at NAS Cecil Field. A site location map is included as **Figure 1**. The NFF site formerly contained six 595,000-gallon JP-5 jet fuel storage tanks. Two of the tanks were installed in 1952 and four tanks were installed in 1954. Overflow protection was installed on all of the tanks in 1987. One of the tanks (76E) was removed from service in 1991 when a leak was discovered. The remaining five storage tanks, along with the earthen containment mound and associated impacted soil, were removed from the site in 2000 and 2001.

1.2 SITE HISTORY

Several spills from the tanks were identified at the NFF site. A spill of approximately 23,000 gallons occurred in 1987 and an additional 913,000 gallons was spilled in 1991. Corrective action to address the petroleum impacts was completed in 1991 and a Corrective Action Completion Report was submitted in 1992. Approximately 140,000 tons of fuel impacted soil was removed from the site (CH2M Hill, 2008). A supplemental investigation was completed in 1994 to assess impacts from a 1,800 gallon spill that occurred in November 1993.

Results of previous investigations conducted to determine the extent of impact from the petroleum release indicate groundwater contamination above the Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels (GCTLs) for the following constituents: benzene, ethylbenzene, toluene and xylenes (BTEX); naphthalene, 1-methylnaphthalene and 2-methylnaphthalene. The extent of petroleum contamination extends to the water table from depths of approximately 5 feet below ground

surface (ft bgs) to approximately 110 ft bgs. It was estimated that approximately 917,000 square feet were impacted with contaminants at concentrations exceeding the GCTLs (TtNUS, 2004).

A combination of remediation techniques was chosen for the Site including AS, biosparge (BS) and soil vapor extraction (SVE). The AS system was installed in areas where benzene concentrations exceeded 1,000 micrograms per liter (μg/L). Eighty-two vertical AS wells were installed in these areas. The BS system was installed in areas where benzene concentrations ranged from 100 μg/L to 1,000 μg/L. One hundred twenty-five vertical BS wells were installed in these areas. The SVE system was installed in the footprint of the AS system to capture vapor released as a result of the AS system operation. Ten horizontal SVE collection lines were installed at a depth of approximately 3 ft bgs in these areas.

Full-scale operation of the remediation systems began in mid-July 2005. The SVE system was shut down due to heavy entrainment of groundwater in November 2005. CH2M Hill conducted an optimization study of the system and provided their recommendations in a report submitted in June 2008. The report recommended redefining the target treatment areas based on updated groundwater data, reconfiguring the treatment system and continued sampling of the existing monitoring well network on a quarterly basis for one year to determine the need for future use (CH2M Hill, 2008). The AS system was reconfigured and restarted in November 2008 but ran sporadically through March 2009 due to maintenance issues. The system operated continuously from March 19, 2009, through June 3, 2009, when it was shut down to let aquifer conditions equilibrate before the June 2009 quarterly groundwater sampling event was conducted.

2.0 GROUNDWATER MONITORING SUMMARY

Currently, 16 monitoring wells are sampled quarterly at the site. Monitoring well CEF-076-104D was destroyed during construction activities and therefore, was neither sampled in March 2009 or June 2009. Monitoring well CEF-076-117D was added to the monitoring program for June 2009 as a downgradient deep well to replace CEF-076-104D. The wells are screened at depths ranging between approximately 5 and 115 ft bgs.

Water levels were recorded and samples were collected from the monitoring wells listed below for analysis of volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), total recoverable petroleum hydrocarbons (TRPH), natural attenuation (NA) parameters and field parameters as detailed in the following tables. Locations of the wells at this site are illustrated on **Figure 2**.

Monitoring Well	Parameters
CEF-372-13R	VOC, PAH, TRPH
CEF-076-49S	VOC, PAH, TRPH, NA
CEF-076-50I	VOC, PAH, TRPH
CEF-076-57S	VOC, PAH, TRPH, NA
CEF-076-61I	VOC, PAH, TRPH, NA
CEF-076-70I	VOC, PAH, TRPH
CEF-076-93S	VOC, PAH, TRPH
CEF-076-94S	VOC, PAH, TRPH
CEF-076-95S	VOC, PAH, TRPH, NA
CEF-076-98D	VOC, PAH, TRPH
CEF-076-99D	VOC, PAH, TRPH, NA
CEF-076-100D	VOC, PAH, TRPH, NA
CEF-076-110D	VOC, PAH, TRPH
CEF-076-113S	VOC, PAH, TRPH
CEF-076-116D	VOC, PAH, TRPH, NA
CEF-076-117D	VOC, PAH, TRPH, NA

Analysis	Constituents	Analytical Method
VOCs		8260B
PAHs		8310
TRPH		FL PRO
NA Parameters	Sulfide	4500S
	Sulfate	300
	Total Organic Carbon	5310B
	Dissolved Oxygen	CHEMetrics® Kit/ Field Meter
	Total Inorganic Carbon	5310B
Field Parameters	Temperature pH Conductivity Turbidity ORP	Direct-reading meter

2.1 MONITORING WELL OBSERVATIONS

The integrity of the monitoring wells included in the long-term monitoring plan was evaluated during each sampling event. The field team noted in March 2009 that CEF-076-104D was destroyed by

construction activities and the top of the PVC casing of CEF-076-13R was broken off. No new damage was noted to the wells during the June 2009 groundwater sampling event, other than minor issues that do not affect the well integrity such as missing bolts and locks.

2.2 WATER LEVEL MEASUREMENTS

Water level measurements were recorded for the 31 wells shown on **Figure 2** and listed in **Table 1**. The top-of-casing elevations, depth-to-water and calculated water level elevations are provided in **Table 1**. No potentiometric maps were prepared for this sampling event because of the small amount of data collected compared to the relative area over which the wells are located. Based on historical information, groundwater flow at the site is towards the south-southwest (CH2M Hill, 2007). However, additional water level measurements collected during June 2009 suggest that there may be a westerly component of flow in the shallow portions of the aquifer but there are insufficient data points in the western portion of the site to confirm this interpretation.

2.3 GROUNDWATER SAMPLING

2.3.1 Methodology

Groundwater sampling was conducted at the NFF site in June 2009. Sixteen monitoring wells (CEF-372-13R, CEF-076-49S, CEF-076-50I, CEF-076-57S, CEF-076-61I, CEF-076-70I, CEF-076-93S, CEF-076-94S, CEF-076-95S, CEF-076-98D, CEF-076-99D, CEF-076-100D, CEF-076-110D, CEF-076-113S, CEF-076-116D, and CEF-076-117D) were purged and sampled using low-flow methodology.

Wells were purged immediately before sampling using a low flow peristaltic pump, at an approximate rate equal to or less than the groundwater recharge rate, until field parameters (temperature, pH, conductivity, turbidity and dissolved oxygen [DO]) stabilized. Oxidation-reduction potential (ORP) readings were also recorded during purging. Samples were collected for field analysis of DO using CHEMetrics® field test kits and field meters. Results of field measurements are summarized on **Table 2**. Copies of the groundwater sampling logs, including all field parameter measurements, are provided in **Appendix A**.

Groundwater sampling was conducted in general accordance with applicable state and local guidelines, and the Solutions-IES Work Plan (SIES, 2008). All samples collected were stored on ice and delivered to Accutest Laboratory, a Florida-certified and National Environmental Laboratory Accreditation Program

certified laboratory located in Orlando, Florida, via courier, under chain-of-custody procedures. A copy of the laboratory analytical report is provided in **Appendix B**.

2.4 INVESTIGATION DERIVED WASTE (IDW)

Purge water, wash water and rinse water were collected in 5-gallon containers, transferred to a 55-gallon drum and staged in the IDW Storage Building (Building 536). IDW from all the site wells was placed in drum SIES-002-6102009 (hazardous). The NAS Jacksonville Public Works Department (PWD-JAX) was notified at the completion of the sampling event that the drum was stored in the building. The hazardous data package was forwarded to PWD-JAX on July 10, 2009.

3.0 AS SYSTEM PERFORMANCE SUMMARY

Solutions-IES began O&M services in March 2009. After completing the March 3, 2009, groundwater sampling event, the system would not restart due to a malfunctioning component. After the component was repaired by CH2M Hill, the system was started on March 19, 2009. The first weekly O&M visit was conducted on March 25, 2009. Since that time, weekly O&M system checks have been performed. Weekly O&M forms can be found in **Appendix C**. The AS system ran continuously from March 19, 2009, through June 3, 2009, when it was shut down to let aquifer conditions equilibrate before the June 10, 2009, quarterly groundwater sampling event was conducted.

Air is currently being injected into 66 AS wells across the site. The system is programmed to run 24 hours a day and inject air into 33 wells for seven days and then inject air into the other 33 wells for seven days, so at any given moment, 33 wells are operational. While system repairs were conducted in March, several flow and pressure gauges were identified as being faulty. Weekly measurements indicate that the average flow rate per well is approximately 5 standard cubic feet per minute (SCFM). The individual flow rates and pressures for each well are shown on the O&M forms included in **Appendix C**. The shallow AS wells are shown on **Figure 3** and the deep AS wells are shown on **Figure 4**.

4.0 SAMPLING AND ANALYTICAL RESULTS

4.1 DATA VALIDATION

Accutest data analysts validated all data according to laboratory standard operating procedures (SOPs). None of the data was rejected as a result of the data validation. However, as indicated in the laboratory case narrative, several QC samples were outside control limits for several of the methods run by the lab. Most QC issues were noted as matrix interference, sample homogeneity, sample non-homogeneity and results biased low. The validation process also resulted in several data qualifiers. These are shown with the analyte concentrations in **Table 3**.

A limited data validation was also performed by Solutions-IES. The data validation evaluated data completeness, holding time compliance, laboratory blank contamination and detection limits. No additional issues were identified.

4.2 NATURAL ATTENUATION PARAMETERS

Groundwater samples were analyzed for the following NA parameters: DO, sulfide, sulfate, total organic carbon (TOC) and total inorganic carbon (TIC). In addition, field parameters including temperature, pH, conductivity, turbidity and ORP were measured and recorded during well purging. The results of the field measurements and natural attenuation parameters are summarized in **Table 2**.

Field measurements indicate that DO concentrations at the NFF site are relatively low with most of the wells exhibiting values between 0.1 to 2.0 mg/L in June 2009. DO concentrations were measured with CHEMetrics® kits. However, some of the measurements were collected with a DO meter and a flow through cell while purging due to matrix interference with the CHEMetrics® kits. The low values suggest that the groundwater at the site is probably anaerobic.

The pH values measured at the site in June 2009 ranged from 2.61 to 7.21 standard units. Values recorded in June 2009 have generally increased from March 2009. Temperature and turbidity have increased from March 2009 to June 2009, while conductivity values recorded in June 2009 are generally consistent with the historical values recorded at this site.

Under anaerobic conditions, sulfate may be used as an electron acceptor during the process of biological degradation of petroleum compounds. Sulfate can be reduced to sulfide under anaerobic conditions. Decreasing levels of sulfate coupled with an increase in sulfide concentrations and decreased levels of BTEX can be used as an indicator that anaerobic biodegradation of the BTEX compounds may be occurring under sulfate reducing conditions. Sulfate concentrations exceeded the GCTL of 250 mg/L in wells CEF-076-49S, CEF-076-57S and CEF-076-99D; and exceeded the Natural Attenuation Default Source Concentration (NADSC) of 2,500 mg/L in wells CEF-076-61I, CEF-076-100D, and CEF-076-116D. Wells CEF-076-49S (2260 mg/L to 2430 mg/L) and CEF-076-57S (790 mg/L to 1480 mg/L) were the only wells that increased in sulfate concentrations from March 2009 to June 2009. Sulfate concentrations in well CEF-076-57S in June 2009 have rebounded to concentrations reported in October 2007.

4.3 GROUNDWATER RESULTS

Twelve of the 16 wells sampled contained concentrations of constituents above the GCTLs this reporting period: CEF-076-49S, CEF-076-50I, CEF-076-57S, CEF-076-61I, CEF-076-70I, CEF-076-93S, CEF-076-94S, CEF-076-98D, CEF-076-110D, CEF-076-113S, CEF-076-116D and CEF-076-117D. The constituents included benzene, ethylbenzene, isopropylbenzene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene and total xylenes. Three wells (CEF-076-70I, CEF-076-110D, and CEF-076-113S) had constituents at concentrations above the NADSCs. Locations and constituent concentrations in excess of the regulatory limits are shown on **Figure 5**.

The following parameters were detected in the monitoring wells identified below during the June 2009 sampling event. A discussion of sulfate concentrations is presented in Section 4.2.

- Benzene was detected above the GCTL of 1 μg/L in wells CEF-076-49S, CEF-076-50I, CEF-076-57S, CEF-076-61I, CEF-076-94S, CEF-076-98D and CEF-076-116D; and above the NADSC of 100 μg/L in wells CEF-076-70I, CEF-076-110D and CEF-076-113S. This is the first time that the benzene concentration in well CEF-076-94S has exceeded the GCTL since June 2006.
- Ethylbenzene was detected above the NADSC of 300 μg/L in well CEF-076-113S.
- Xylenes were detected above the GCTL of 20 μg/L in well CEF-076-701; and above the NADSC of 200 μg/L in well CEF-076-113S.
- Isopropylbenzene was above the GCTL of 0.8 μg/L in wells CEF-076-61I, CEF-076-93S and CEF-076-117D; and was detected above the NADSC of 8 μg/L in wells CEF-076-70I and CEF-076-113S.
- 1,2,4-trimethylbenzene was detected above the GCTL of 10 μg/L in wells CEF-076-61I, CEF-076-70I, CEF-076-110D and CEF-076-117D; and above the NADSC of 100 μg/L in well CEF-076-113S.

- 1,3,5-trimethylbenzene was detected above the GCTL of 10 g/L in wells CEF-076-70I and CEF-076-113S.
- Naphthalene (Method 8310) concentrations were detected above the GCTL of 14 g/L in well CEF-076-113S.
- Naphthalene (Method 8260) concentrations were detected above the GCTL of 14 g/L in well CEF-076-70I. The reporting limit for naphthalene via Method 8260B was 200 g/L for well MW-113S. Therefore, the concentration in this well may be above the GCTL as indicated by the analysis via Method 8310.

The historical benzene concentrations in select shallow wells are illustrated on **Figure 6**, benzene concentrations in select intermediate wells in **Figure 7**, and benzene concentrations in select deep wells in **Figure 8**. The historical concentrations for ethylbenzene, xylenes and isopropylbenzene in select wells are depicted on **Figures 9, 10** and **11**, respectively. A summary of historical sampling results can be found in **Table 3**. The June 2009 laboratory analytical report is included in **Appendix B**.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The June 2009 quarterly groundwater sampling event was conducted in general accordance with previous sampling events. Monitoring well CEF-076-104D was destroyed during construction activities and has not been sampled since December 2008. Monitoring well CEF-076-117D was added to the monitoring program for June 2009 as a downgradient deep well to replace CEF-076-104D. Isopropylbenzene and 1,2,4-trimethylbenzene were detected in CEF-076-117D above the respective GCTL levels. Based on analytical results from the June 2009 sampling, concentrations are generally consistent with previously reported values and no significant changes have been seen as a result of restarting the AS system in March 2009. Benzene was detected in well CEF-076-94S for the first time since 2006 and the sulfate concentration increased substantially in well CEF-076-57S.

The AS system ran continuously from March 19, 2009, through June 3, 2009, when it was shut down to let aquifer conditions equilibrate before the June 10, 2009, quarterly groundwater sampling event was conducted. Air is currently being injected into 66 AS wells across the site. Thirty three wells operate for seven days and then the other 33 wells operate for seven days. The average flow rate per well is approximately 5 standard cubic feet per minute (SCFM). The AS system was restarted on June 10, 2009 after the quarterly groundwater sampling event was completed.

Solutions-IES recommends continuing operation of the AS system, performing weekly O&M visits and continuing quarterly water level measurements and groundwater sampling at the 16 wells included in the

monitoring network for constituents of concern. It is recommended that a monitoring well be installed to replace well CEF-076-104D after completion of the construction activities. Solutions-IES will evaluate the effectiveness of the AS system after each sampling event.

6.0 REFERENCES

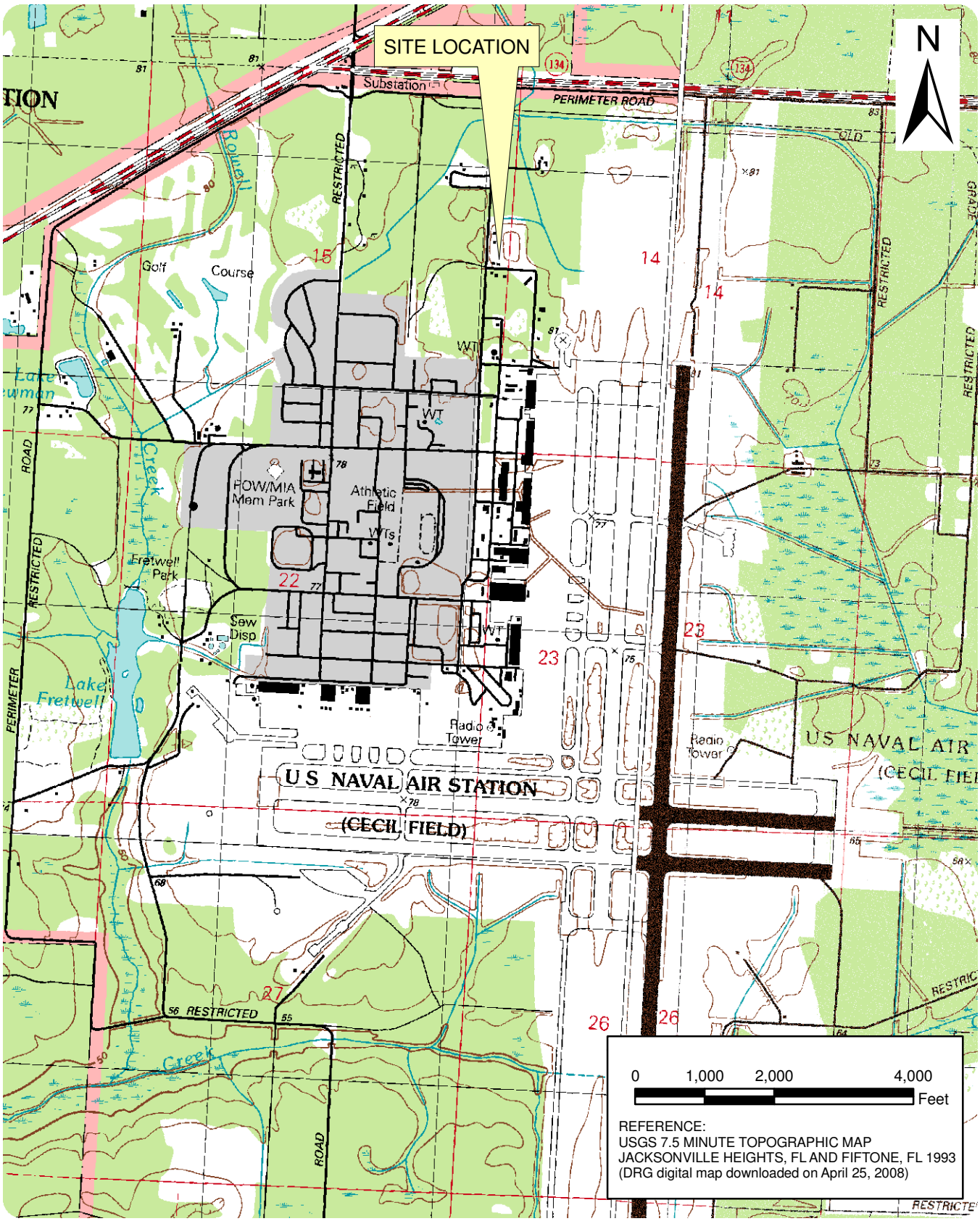
CH2M HILL, 2008. *Optimization Report for Air Sparging/Biosparging Treatment System, North Fuel Farm Site, Former Naval Air Station Cecil Field, Jacksonville, Florida.* Technical Memorandum. June 2008.

CH2M HILL, 2007. *Operations and Monitoring Status Report October 2006 – May 2007.* Air Sparge, Biosparge and SVE System North Fuel Farm Area Remediation Project, Naval Air Station Cecil Field, Jacksonville, Florida. November 2007.

Solutions-IES, Inc., 2008. *Work Plan-Long Term Monitoring and Operation & Maintenance,* Former Naval Air Station Cecil Field, Jacksonville, Florida, September 2008.

TetraTech NUS, 2004. *Remedial Action Plan Addendum for North Fuel Farm, Naval Air Station Cecil Field, Jacksonville, Florida.* March 2004.

FIGURES



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PROJECT MANAGER BR

DATE 11/07/08

FILE Fig 1.pdf

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SITE LOCATION MAP
NORTH FUEL FARM
NAS CECIL FIELD
JACKSONVILLE, FL

FIGURE:

1

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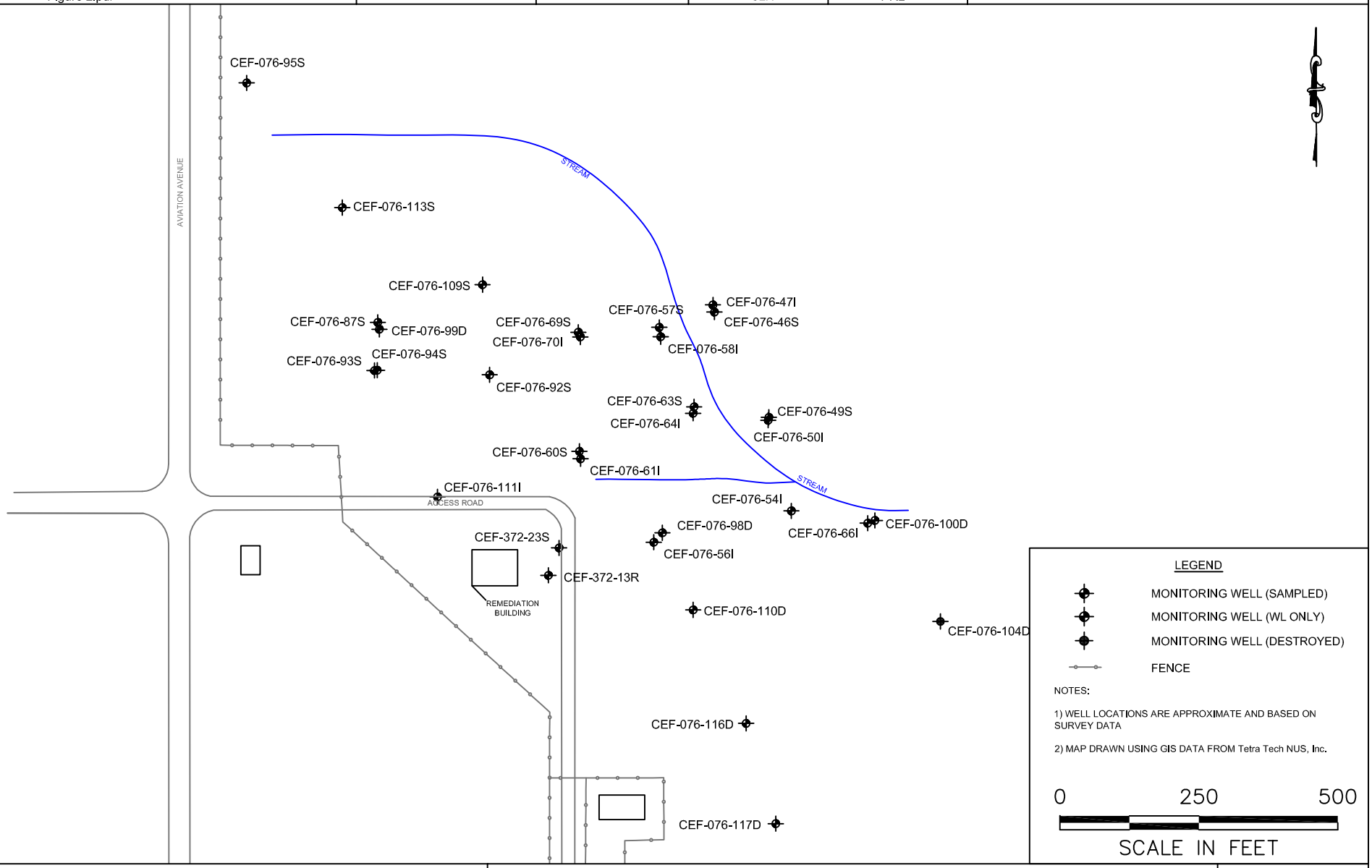

LEGEND

- MONITORING WELL (SAMPLED)
- MONITORING WELL (WL ONLY)
- MONITORING WELL (DESTROYED)
- FENCE

NOTES:

1) WELL LOCATIONS ARE APPROXIMATE AND BASED ON SURVEY DATA

2) MAP DRAWN USING GIS DATA FROM Tetra Tech NUS, Inc.

0 250 500

SCALE IN FEET

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WELL LOCATION MAP
NORTH FUEL FARM - NAS CECIL FIELD
JACKSONVILLE, FLORIDA
JUNE 2009

FIGURE:

2

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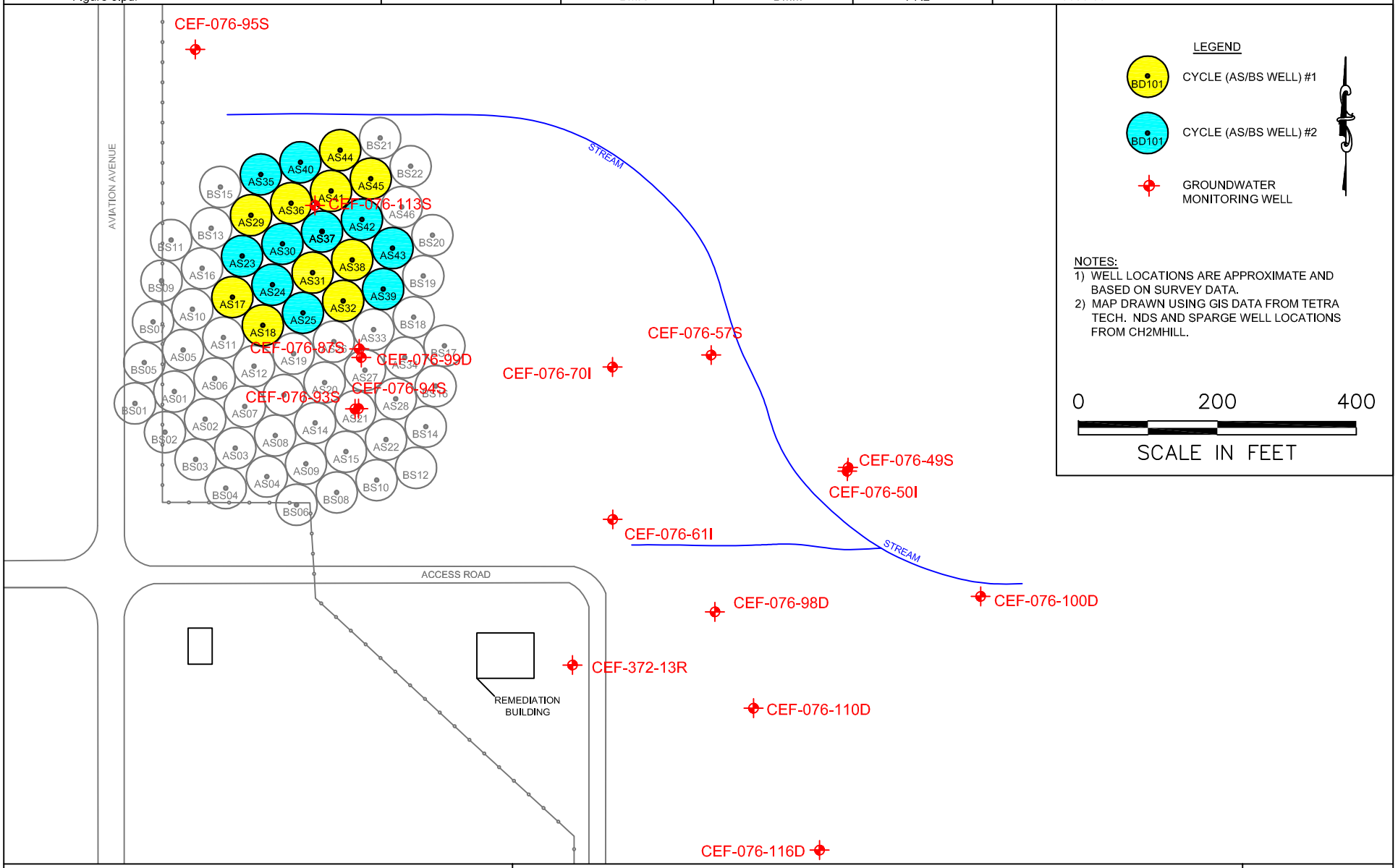
FILE	DATE	PROJECT MANAGER	CHECKED BY	DRAFTER	PROJECT NUMBER
Figure 3.pdf	11/12/2009	BMR	DMM	PRL	8030.08A2.NAVF



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SHALLOW AIR SPARGE WELL LOCATIONS
NORTH FUEL FARM - NAS CECIL FIELD
JACKSONVILLE, FLORIDA
JUNE 2009

FIGURE:
3

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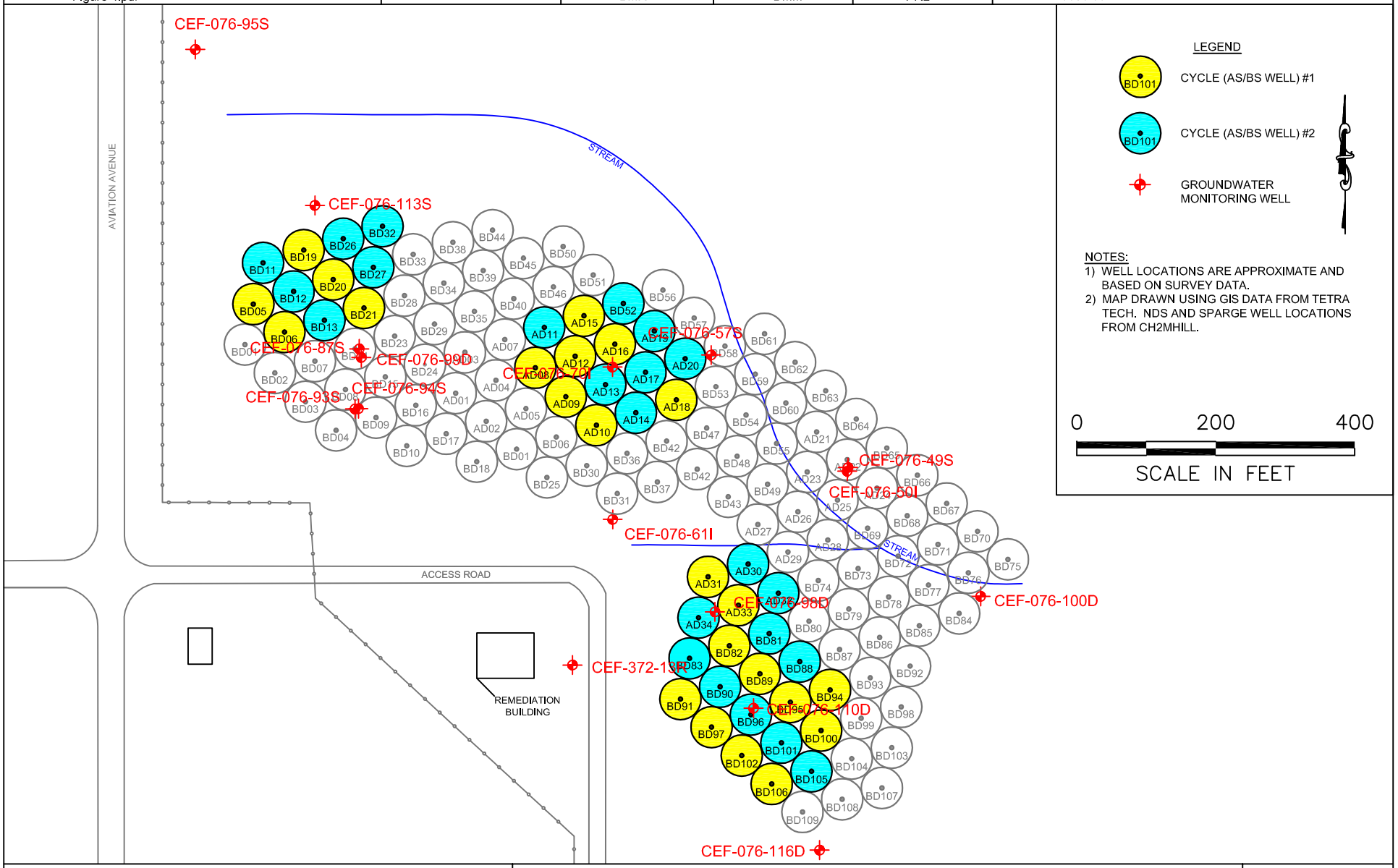

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DEEP AIR SPARGE WELL LOCATIONS
NORTH FUEL FARM - NAS CECIL FIELD
JACKSONVILLE, FLORIDA
JUNE 2009

FIGURE:
4

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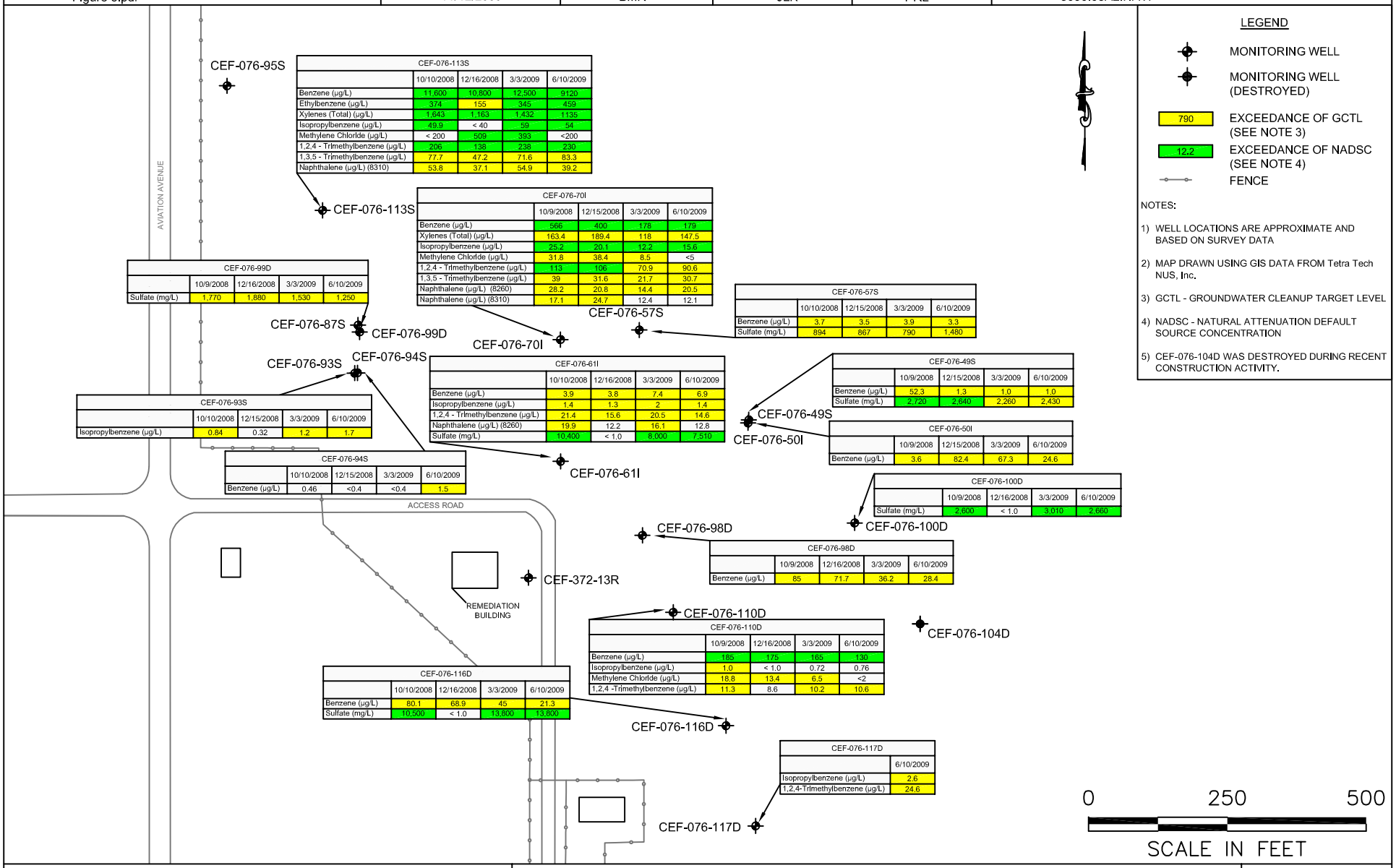

CEF-076-113S	10/10/2008	12/16/2008	3/3/2009	6/10/2009
Benzene (µg/L)	11,600	10,800	12,500	9120
Ethylbenzene (µg/L)	374	155	345	459
Xylenes (Total) (µg/L)	1,643	1,163	1,432	1135
Isopropylbenzene (µg/L)	49.9	< 40	59	54
Methylene Chloride (µg/L)	< 200	509	393	<200
1,2,4 - Trimethylbenzene (µg/L)	206	138	238	230
1,3,5 - Trimethylbenzene (µg/L)	77.7	47.2	71.6	83.3
Naphthalene (µg/L) (8310)	53.8	37.1	54.9	39.2

CEF-076-70I	10/9/2008	12/15/2008	3/3/2009	6/10/2009
Benzene (µg/L)	566	400	178	179
Xylenes (Total) (µg/L)	163.4	189.4	118	147.5
Isopropylbenzene (µg/L)	25.2	20.1	12.2	15.6
Methylene Chloride (µg/L)	31.8	38.4	8.5	<5
1,2,4 - Trimethylbenzene (µg/L)	113	106	70.9	90.6
1,3,5 - Trimethylbenzene (µg/L)	39	31.6	21.7	30.7
Naphthalene (µg/L) (8260)	28.2	20.8	14.4	20.5
Naphthalene (µg/L) (8310)	17.1	24.7	12.4	12.1

CEF-076-99D	10/9/2008	12/16/2008	3/3/2009	6/10/2009
Sulfate (mg/L)	1,770	1,880	1,530	1,250

CEF-076-57S	10/10/2008	12/15/2008	3/3/2009	6/10/2009
Benzene (µg/L)	3.7	3.5	3.9	3.3
Sulfate (mg/L)	894	867	790	1,480

CEF-076-93S	10/10/2008	12/15/2008	3/3/2009	6/10/2009
Isopropylbenzene (µg/L)	0.84	0.32	1.2	1.7

CEF-076-61I	10/10/2008	12/16/2008	3/3/2009	6/10/2009
Benzene (µg/L)	3.9	3.8	7.4	6.9
Isopropylbenzene (µg/L)	1.4	1.3	2	1.4
1,2,4 - Trimethylbenzene (µg/L)	21.4	15.6	20.5	14.6
Naphthalene (µg/L) (8260)	19.9	12.2	16.1	12.8
Sulfate (mg/L)	10,400	< 1.0	8,000	7,510

CEF-076-49S	10/9/2008	12/15/2008	3/3/2009	6/10/2009
Benzene (µg/L)	52.3	1.3	1.0	1.0
Sulfate (mg/L)	2,720	2,640	2,260	2,430

CEF-076-50I	10/9/2008	12/15/2008	3/3/2009	6/10/2009
Benzene (µg/L)	3.6	82.4	67.3	24.6

CEF-076-94S	10/10/2008	12/15/2008	3/3/2009	6/10/2009
Benzene (µg/L)	0.46	<0.4	<0.4	1.5

CEF-076-100D	10/9/2008	12/16/2008	3/3/2009	6/10/2009
Sulfate (mg/L)	2,600	< 1.0	3,010	2,660

CEF-076-98D	10/9/2008	12/16/2008	3/3/2009	6/10/2009
Benzene (µg/L)	85	71.7	36.2	28.4

CEF-076-110D	10/9/2008	12/16/2008	3/3/2009	6/10/2009
Benzene (µg/L)	185	175	165	130
Isopropylbenzene (µg/L)	1.0	< 1.0	0.72	0.76
Methylene Chloride (µg/L)	18.8	13.4	6.5	<2
1,2,4 -Trimethylbenzene (µg/L)	11.3	8.6	10.2	10.6

CEF-076-116D	10/10/2008	12/16/2008	3/3/2009	6/10/2009
Benzene (µg/L)	80.1	68.9	45	21.3
Sulfate (mg/L)	10,500	< 1.0	13,600	15,600

CEF-076-117D	6/10/2009
Isopropylbenzene (µg/L)	2.6
1,2,4-Trimethylbenzene (µg/L)	24.6

LEGEND

- MONITORING WELL
- MONITORING WELL (DESTROYED)
- 790 — EXCEEDANCE OF GCTL (SEE NOTE 3)
- 12.2 — EXCEEDANCE OF NADSC (SEE NOTE 4)
- FENCE

NOTES:

1) WELL LOCATIONS ARE APPROXIMATE AND BASED ON SURVEY DATA
2) MAP DRAWN USING GIS DATA FROM Tetra Tech NUS, Inc.
3) GCTL - GROUNDWATER CLEANUP TARGET LEVEL
4) NADSC - NATURAL ATTENUATION DEFAULT SOURCE CONCENTRATION
5) CEF-076-104D WAS DESTROYED DURING RECENT CONSTRUCTION ACTIVITY.

Solutions-IES
Industrial & Environmental Services
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CONTAMINANT CONCENTRATION MAP
NORTH FUEL FARM - NAS CECIL FIELD
JACKSONVILLE, FLORIDA
JUNE 2009

FIGURE: 5

T:\Project Files\Cecil Field\Cecil Field 2\CAD\NFFbasemap.dwg

FIGURE 6
Historical Benzene Concentrations in Select Shallow Wells

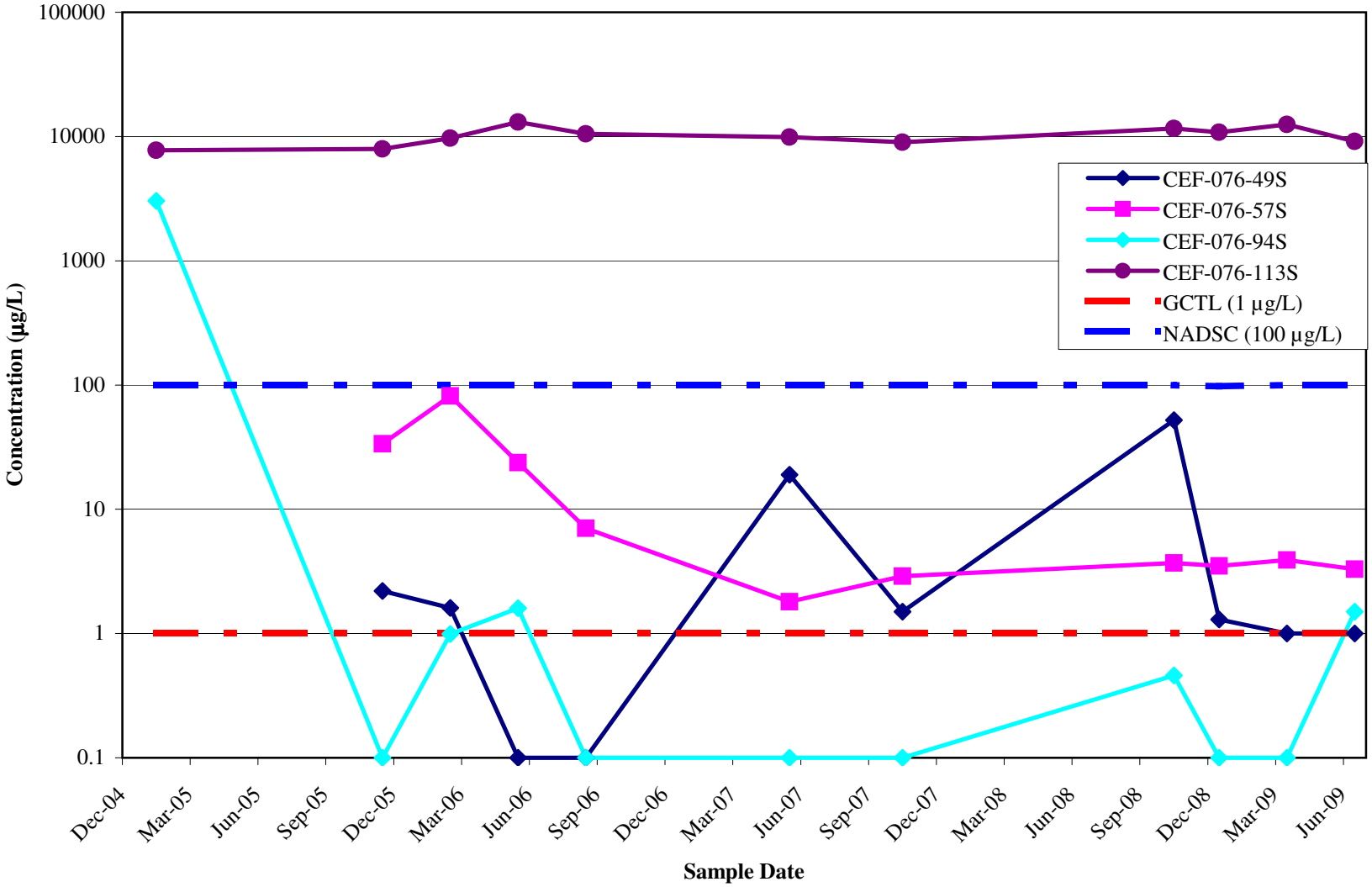


Figure 7
Historical Benzene Concentrations in Select Intermediate Wells

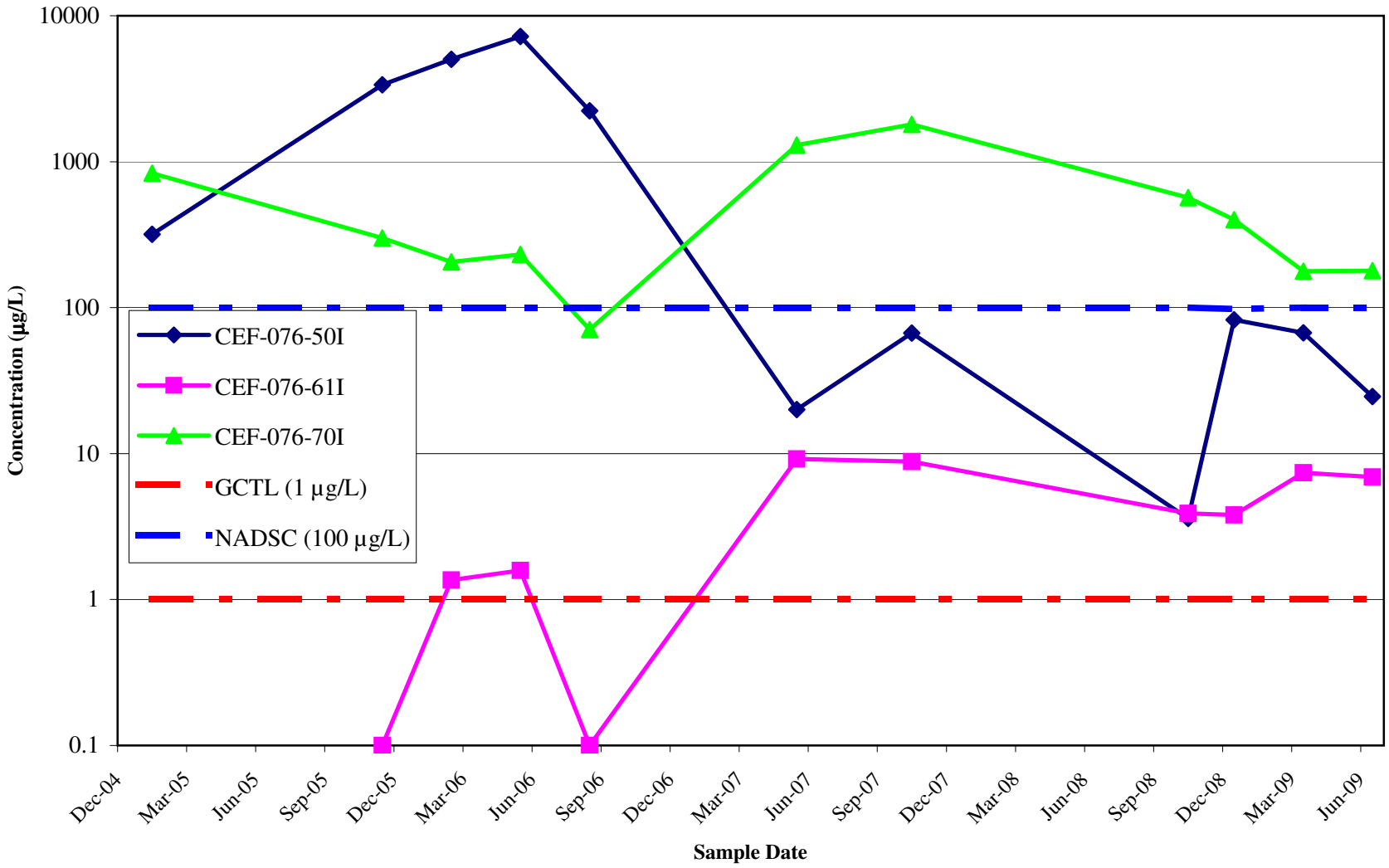


FIGURE 8
Historical Benzene Concentrations in Select Deep Wells

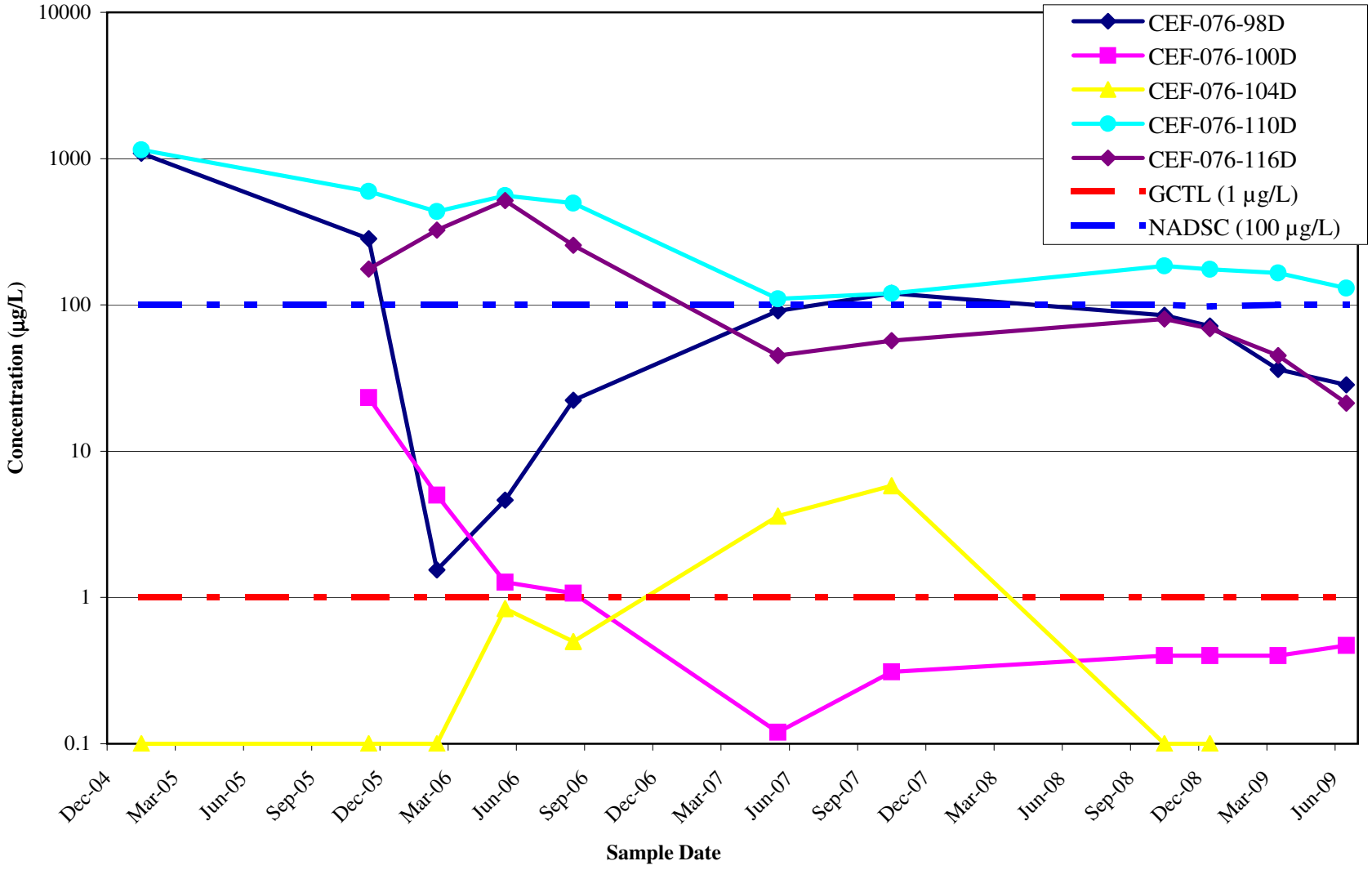


FIGURE 9
Historical Ethylbenzene Concentrations in Select Wells

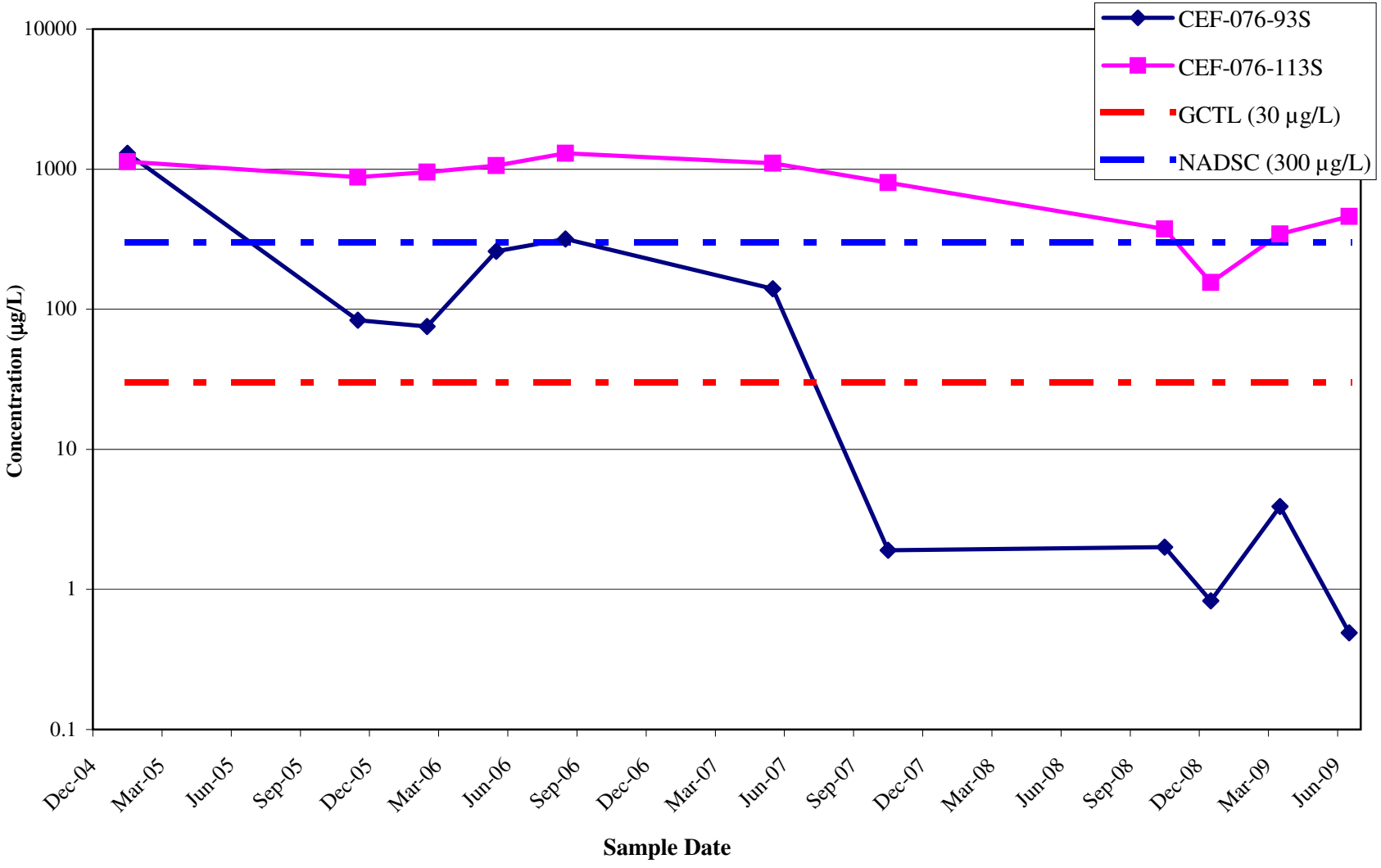


FIGURE 10
Historical Xylenes Concentrations in Select Wells

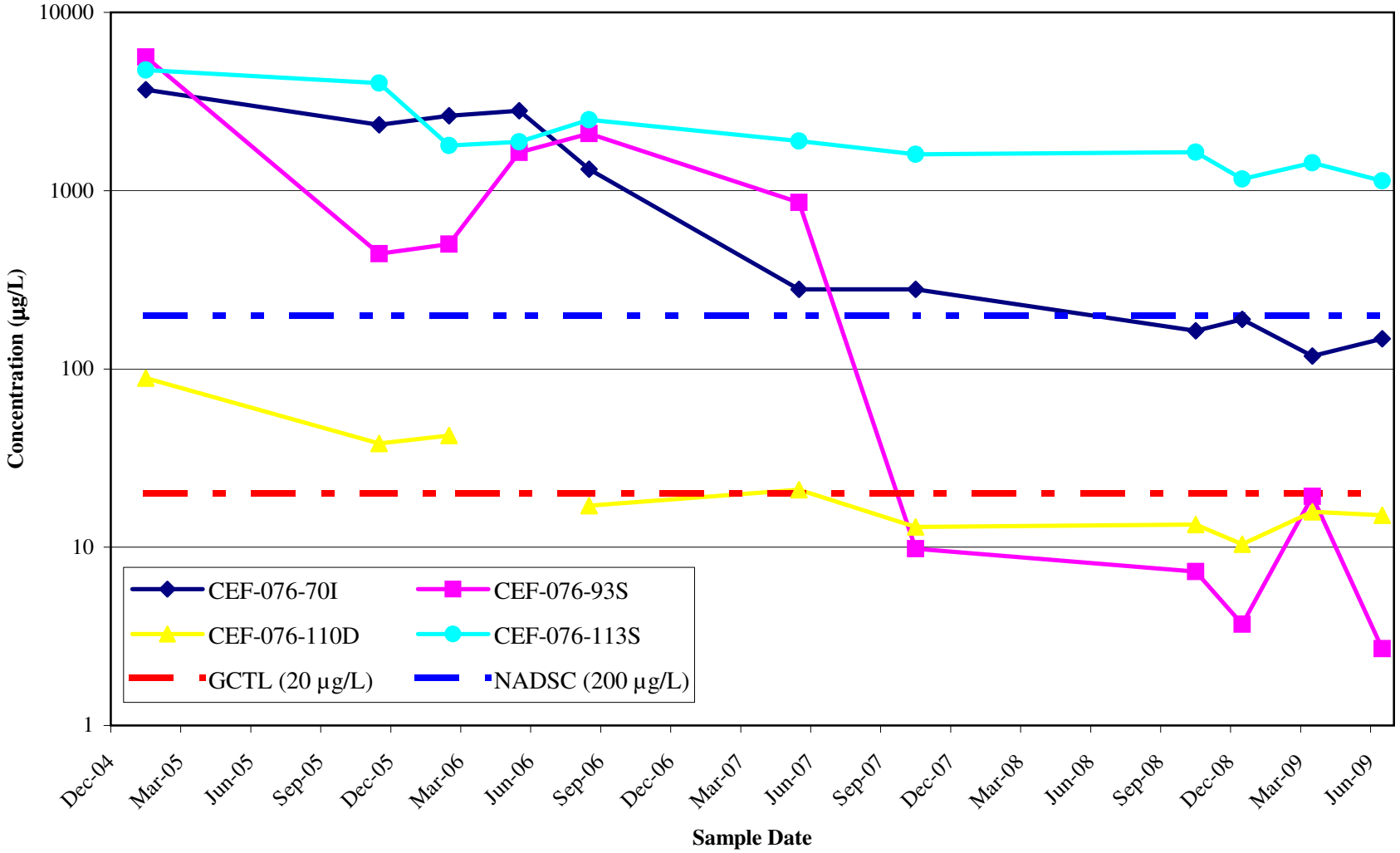
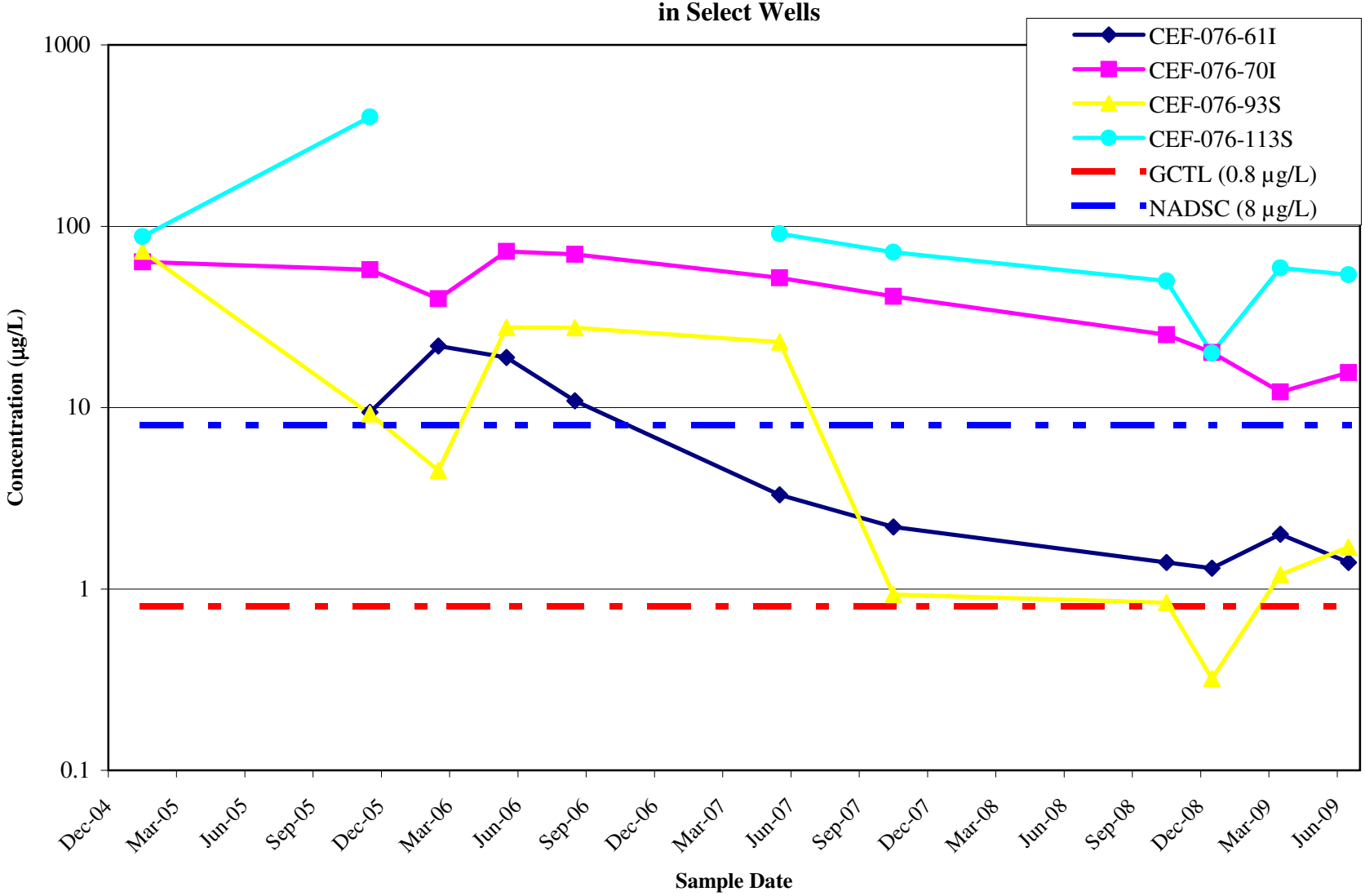


FIGURE 11
Historical Isopropylbenzene Concentrations in Select Wells



TABLES

TABLE 1
GROUNDWATER ELEVATIONS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Date Measured	Screen Interval (ft bgs)	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)
CEF-372-13R	7/29/2005	1.50 - 11.50	81.25	0.05	81.20
	11/18/2005			6.05	75.20
	5/15/2006			9.14	72.11
	8/15/2006			10.71	70.54
	10/22/2007			6.28	74.97
	10/8/2008			4.84	76.41
	12/15/2008			6.93	74.32
	3/3/2009			7.90	*
	6/10/2009			4.50	*
CEF-372-23S	6/10/2009	4 - 14	79.63	4.70	74.93
CEF-076-46S	6/10/2009	37 - 42	-	3.46	-
CEF-076-47I	6/10/2009	65 - 70	77.31	3.22	74.09
CEF-076-49S	7/29/2005	45 - 50	78.14	3.30	74.84
	11/18/2005			6.14	72.00
	5/16/2006			8.15	69.99
	8/17/2006			9.72	68.42
	10/22/2007			6.52	71.62
	10/8/2008			4.72	73.42
	12/15/2008			6.51	71.63
	3/3/2009			7.66	70.48
	6/10/2009			4.35	73.79
CEF-076-50I	7/29/2005	75 - 80	78.17	1.54	76.63
	11/18/2005			5.35	72.82
	5/15/2006			8.08	70.09
	10/22/2007			6.38	71.79
	10/8/2008			4.55	73.62
	12/15/2008			6.39	71.78
	3/3/2009			7.61	70.56
	6/10/2009			4.24	73.93
CEF-076-54I	6/10/2009	80 - 85	80.09	6.45	73.64
CEF-076-56I	6/10/2009	70 - 75	80.91	7.11	73.80
CEF-076-57S	7/29/2005	30 - 35	77.74	2.12	75.62
	11/18/2005			5.71	72.03
	5/17/2006			7.58	70.16
	8/17/2006			9.16	68.58
	10/22/2007			6.13	71.61
	10/8/2008			4.21	73.53
	12/15/2008			5.98	71.76
	3/3/2009			7.31	70.43
	6/10/2009			3.83	73.91
CEF-076-58I	6/10/2009	65 - 70	77.66	3.94	73.72
CEF-076-60S	6/10/2009	35 - 40	80.93	7.02	73.91
CEF-076-61I	7/29/2005	65 - 70	81.12	11.90	69.22
	11/18/2005			8.95	72.17
	5/17/2006			11.06	70.06
	8/16/2006			12.86	68.26
	10/22/2007			9.72	71.40
	10/8/2008			7.61	73.51
	12/15/2008			9.63	71.49
	3/3/2009			11.35	69.77
	6/10/2009			7.53	73.59
CEF-076-63S	6/10/2009	40 - 45	78.58	4.41	74.17
CEF-076-64I	6/10/2009	70 - 75	78.39	4.39	74.00
CEF-076-66I	6/10/2009	80 - 85	80.36	3.68	*
CEF-076-69S	6/10/2009	30 - 35	78.21	4.35	73.86
CEF-076-70I	7/29/2005	65 - 70	78.21	2.10	76.11
	11/18/2005			5.24	72.97
	5/11/2006			7.85	70.36
	8/15/2006			9.70	68.51
	10/22/2007			5.85	72.36
	10/8/2008			4.41	73.80
	12/15/2008			6.31	71.90
	3/3/2009			8.44	69.77
	6/10/2009			4.68	73.53
CEF-076-87S	6/10/2009	45 - 50	81.53	7.76	73.77
CEF-076-92S	6/10/2009	25 - 30	81.88	7.85	74.03
CEF-076-93S	7/29/2005	25 - 30	81.59	3.70	77.89
	11/18/2005			7.24	74.35
	5/10/2006			9.56	72.03
	8/14/2006			10.53	71.06
	10/22/2007			7.55	74.04
	10/8/2008			6.48	75.11
	12/15/2008			8.55	73.04
	3/3/2009			8.00	73.59
	6/10/2009			5.95	75.64
CEF-076-94S	7/29/2005	5 - 15	81.59	NM	NM
	11/18/2005			9.06	72.53
	5/10/2006			10.07	71.52
	8/14/2006			13.25	68.34
	10/22/2007			9.83	71.76
	10/8/2008			7.40	74.19
	12/15/2008			9.58	72.01
	3/3/2009			11.59	70.00
	6/10/2009			7.49	74.10

TABLE 1
GROUNDWATER ELEVATIONS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Date Measured	Screen Interval (ft bgs)	Top of Casing Elevation (ft amsl)	Depth to Groundwater (ft btoc)	Groundwater Elevation (ft amsl)
CEF-076-95S	7/29/2005	5 - 15	80.88	5.71	75.17
	11/18/2005			6.82	74.06
	5/16/2006			9.35	71.53
	8/16/2006			11.25	69.63
	10/22/2007			6.59	74.29
	10/8/2008			6.45	74.43
	12/15/2008			7.75	73.13
	3/3/2009			7.61	73.27
	6/10/2009			5.46	75.42
CEF-076-98D	7/29/2005	105 - 110	81.39	4.51	76.88
	11/18/2005			8.45	72.94
	5/11/2006			11.19	70.20
	8/15/2006			13.60	67.79
	10/22/2007			11.53	69.86
	10/8/2008			8.28	73.11
	12/15/2008			10.18	71.21
	3/3/2009			15.48	65.91
	6/10/2009			11.37	70.02
CEF-076-99D	7/29/2005	95 - 100	81.69	NM	NM
	11/18/2005			13.97	67.72
	5/17/2006			11.44	70.25
	8/16/2006			13.82	67.87
	10/22/2007			21.45	60.24
	10/8/2008			8.72	72.97
	12/15/2008			9.85	71.84
	3/3/2009			13.75	67.94
	6/10/2009			9.99	71.70
CEF-076-100D	7/29/2005	110 - 115	80.15	4.85	75.30
	11/18/2005			8.92	71.23
	5/16/2006			10.73	69.42
	8/17/2006			12.02	68.13
	10/22/2007			8.63	71.52
	10/8/2008			7.33	72.82
	12/15/2008			9.19	70.96
	3/3/2009			10.24	69.91
	6/10/2009			4.08	*
CEF-076-104D	7/29/2005	110 - 115	79.08	NM	NM
	11/18/2005			8.14	70.94
	5/15/2006			10.05	69.03
	8/17/2006			11.33	67.75
	10/22/2007			8.11	70.97
	10/8/2008			7.10	71.98
	12/15/2008			8.85	70.23
	3/3/2009			**	**
CEF-076-109S	6/10/2009	5 - 15	80.92	15.90	65.02
CEF-076-110D	7/29/2005	105 - 110	82.51	4.80	77.71
	11/18/2005			10.41	72.10
	5/11/2006			12.85	69.66
	8/14/2006			14.60	67.91
	10/22/2007			11.90	70.61
	10/8/2008			10.20	72.31
	12/15/2008			12.19	70.32
	3/3/2009			14.08	68.43
	6/10/2009			10.38	72.13
CEF-076-111I	6/10/2009	65 - 70	82.23	8.50	73.73
CEF-076-113S	7/29/2005	35 - 40	81.22	3.51	77.71
	11/18/2005			8.72	72.50
	5/10/2006			10.62	70.60
	8/14/2006			12.71	68.51
	10/22/2007			9.57	71.65
	10/8/2008			7.30	73.92
	12/15/2008			9.21	72.01
	3/3/2009			11.28	69.94
	6/10/2009			8.44	72.78
CEF-076-116D	10/22/2007	110 - 115	82.83	11.67	71.16
	10/8/2008			10.40	72.43
	12/15/2008			12.37	70.46
	3/3/2009			15.05	67.78
	6/10/2009			11.38	71.45
CEF-076-117D	6/10/2009	105-110	81.78	9.37	72.41

Notes:
ft bgs - feet below ground surface
ft amsl - feet above mean sea level
* - No groundwater elevation calculated due to modification of top of casing after it was surveyed
NM - not measured
** - CEF-076-104D was destroyed during construction activities.

TABLE 2
FIELD AND NATURAL ATTENUATION PARAMETERS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	FIELD PARAMETERS						LABORATORY NATURAL ATTENUATION PARAMETERS			
		pH (SU)	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature (°C)	Oxidation - Reduction Potential (mV)	Sulfate (mg/L)	Sulfide (mg/L)	Total Organic Carbon (mg/L)	Inorganic Carbon (mg/L)
GCTL (mg/L)		NE	NE	NE	NE	NE	NE	250	NE	NE	NE
NADSC (mg/L)		NE	NE	NE	NE	NE	NE	2500	NE	NE	NE
CEF-372-13R	10/23/2007	7.21	225	3.10	0.42	27.21	89.6	NA	NA	NA	NA
	10/9/2008	6.40	500	5.31	0.3	25.75	99.2	NA	NA	NA	NA
	12/16/2008	7.29	579	4	0.6	22.90	-5.2	NA	NA	NA	NA
	3/3/2009	6.97	310	17.5	2.07 *	17.43	99.4	NA	NA	NA	NA
	6/10/2009	6.99	324	29.9	1.38 *	25.21	93.8	NA	NA	NA	NA
CEF-076-49S	10/26/2007	2.04	3331	2.04	0.10	25.50	210	**2070**	ND	**17.8**	**3.2**
	10/9/2008	2.20	3061	3.66	0.81 *	25.59	281.6	**2720**	<0.6	**17.5**	**14.1**
	12/15/2008	1.95	5172	4.7	4	24.41	445.0	**2640**	**0.86 I**	**15.5**	**11.5**
	3/3/2009	2.42	2336	7.75	0.7	22.02	451.2	**2260**	<0.6	**27.7**	**3.7**
	6/10/2009	3.07	2595	2.56	0.9	26.14	427.1	**2430**	<0.60	**16.1**	**12.9**
CEF-076-50I	10/26/2007	2.57	4567	4.52	0.09	27.37	121	NA	NA	NA	NA
	10/9/2008	2.48	4757	5.81	1.04 *	27.08	184	NA	NA	NA	NA
	12/15/2008	2.21	7945	4.7	0.2	24.56	167.5	NA	NA	NA	NA
	3/3/2009	2.68	3453	2.19	0.60 *	22.51	287.8	NA	NA	NA	NA
	6/10/2009	3.41	3972	2.51	1.12 *	26.40	286.0	NA	NA	NA	NA
CEF-076-57S	10/26/2007	2.69	2244	1.51	0.03	24.23	173.1	**1430**	ND	**10.5**	**4**
	10/10/2008	1.14	1100	6.82	1	23.86	189.6	**894**	<0.6	**7**	**21.1**
	12/15/2008	2.46	1606	5	0.05	22.98	160.0	**867**	**0.70 I**	**5.0**	**6.5**
	3/3/2009	2.72	1403	3.8	0.4	18.85	426.6	**790**	**6.2**	**13.1**	**2.2**
	6/10/2009	3.04	2309	8.97	1.0	25.06	415.0	**1480**	<0.60	**11.8**	**2.7**
CEF-076-61I	10/26/2007	2.16	9734	23.30	-0.13	23.89	188	**15100**	ND	**77.4**	**3**
	10/10/2008	**	6555	16.20	0.8	25.24	238	**10400**	<0.60	**55.2**	<10
	12/16/2008	2.3	6626	152	1	22.87	212.6	<1.0	<0.60	**74.8**	**14.0**
	3/3/2009	2.33	7308	45	0.8	17.84	276.1	**8000**	**1.8**	**54.9**	**1.0 I**
	6/10/2009	2.61	7281	249.0	0.7	24.41	37	**7510**	<0.60	**43.4**	**18.8**
CEF-076-70I	10/25/2007	3.29	4676	3.02	-0.34	25.90	5.7	NA	NA	NA	NA
	10/10/2008	2.78	5268	4.81	0.7	26.51	273.5	NA	NA	NA	NA
	12/15/2008	2.3	6930	4.20	0	25.56	104.2	NA	NA	NA	NA
	3/3/2009	2.91	5855	31	0.34 *	21.94	309.3	NA	NA	NA	NA
	6/10/2009	3.35	5898	4.54	1.43 *	26.70	219.2	NA	NA	NA	NA
CEF-076-93S	10/24/2007	5.73	275	88.1	0.31	26.17	258	NA	NA	NA	NA
	10/10/2008	6.12	270	51.3	1.44 *	27.53	-178.9	NA	NA	NA	NA
	12/15/2008	5.9	310	28.2	0.2	24.35	3.2	NA	NA	NA	NA
	3/3/2009	5.98	369	29	0.37 *	18.87	-42.6	NA	NA	NA	NA
	6/10/2009	4.22	287	54.4	1.30 *	25.67	-38.1	NA	NA	NA	NA
CEF-076-94S	10/24/2007	2.50	2207	0.66	0.47	25.93	476	NA	NA	NA	NA
	10/10/2008	4.5	195	3.52	0.38*	27.50	77.9	NA	NA	NA	NA
	12/15/2008	6.22	375	40	0.6	26.16	8.2	NA	NA	NA	NA
	3/3/2009	4.84	299	7.4	1.05 *	22.90	238.1	NA	NA	NA	NA
	6/10/2009	4.67	297	21.2	0.58 *	26.28	19.1	NA	NA	NA	NA
CEF-076-95S	10/25/2007	6.12	151	88.80	1.78	25.10	56.4	**9.8**	ND	**11.7**	**6.8**
	10/9/2008	5.89	146	11.2	1.7 *	23.91	-95	**8.2**	<0.6	**18.9**	**47.6**
	12/16/2008	5.41	51	15.4	0.2	22.75	149.6	**11.6**	**1.7**	**3.4**	**10.0**
	3/3/2009	4.92	85	43	1.0	15.93	280.9	**15.3**	**39.0**	**28.7**	**6.8**
	6/10/2009	5.66	133	45.1	2.0	25.09	-23.6	**9.0**	<0.60	**6.3**	**20.2**
CEF-076-98D	10/24/2007	3.67	7769	1.68	0.53	24.95	193	NA	NA	NA	NA
	10/9/2008	3.23	2568	7.07	0.8	25.77	132.1	NA	NA	NA	NA
	12/16/2008	3.75	10528	2	0.2	25.00	52.1	NA	NA	NA	NA
	3/3/2009	3.36	6470	316	1.10 *	18.97	211.8	NA	NA	NA	NA
	6/10/2009	3.75	7822	4.38	0.28 *	27.64	92.5	NA	NA	NA	NA
CEF-076-99D	10/24/2007	6.56	3337	3.11	0.59	23.49	299	**1860**	ND	**8.4**	**14.4**
	10/9/2008	6.04	707	5.49	1.09 *	27.28	-27.2	**1770**	<0.6	**11**	**86**
	12/16/2008	6.95	3990	2	0.2	26.53	-8.8	**1880**	**0.91 I**	**12.0**	**80.5**
	3/3/2009	6.37	3794	3	0.3	25.01	14.5	**1530**	<0.6	**81.7**	**30.3**
	6/10/2009	6.22	2660	1.37	0.1	29.80	-42.2	**1250**	<0.60	**14.8**	**56.8**
CEF-076-100D	10/25/2007	5.98	2877	1.64	0.53	25.56	-61.5	**1630**	ND	**6**	**15.7**
	10/9/2008	5.50	3072	5.79	0	24.59	-47.5	**2600**	<0.6	**9.1**	**47.4**
	12/16/2008	6.07	1968	5.40	0.10	22.94	69.3	<1.0	**2.9**	**5.2**	**35.5**
	3/3/2009	5.78	5107	8.93	0.05	18.49	3.9	**3010**	**12.2**	**53.5**	**21.6**
	6/10/2009	6.05	3281	30.20	0.5	24.86	-42.0	**2660**	<0.60	**9.0**	**38.2**
CEF-076-110D	10/23/2007	2.32	6444	5.75	0.26	25.49	390	NA	NA	NA	NA
	10/9/2008	2.29	7166	**	1	24.55	322.8	NA	NA	NA	NA
	12/16/2008	2.8	5068	10.8	1.5 *	25.50	292.2	NA	NA	NA	NA
	3/3/2009	2.8	8189	7.82	0.71 *	20.08	304.1	NA	NA	NA	NA
	6/10/2009	3.06	6179	7.99	0.59 *	24.30	290.5	NA	NA	NA	NA
CEF-076-113S	10/25/2007	3.11	2499	2.50	0.23	25.95	45	NA	NA	NA	NA
	10/10/2008	3.11	1952	7.62	1	27.23	18.9	NA	NA	NA	NA
	12/16/2008	3.0	1481	12.1	0	24.54	92.6	NA	NA	NA	NA
	3/3/2009	3.29	3375	13	0.39 *	21.50	109.3	NA	NA	NA	NA
	6/10/2009	3.26	3072	6.37	0.6	26.00	127.1	NA	NA	NA	NA
CEF-076-116D	10/25/2007	2.94	9815	1.56	0.10	22.94	121.4	**10600**	**1.1 J**	**25.1**	**3.2 J**
	10/10/2008	3.37	7691	9.3	0.4	22.45	155.8	**10500**	<0.6	**48.4**	**6.5**
	12/16/2008	3.17	5795	3.9	0.4	20.91	202.6	<1.0	**1.6**	**45.7**	**5.3**
	3/3/2009	2.85	12787	4.87	0.2	20.15	136.1	**13800**	<0.60	**55.8**	**1.4 I**
	6/10/2009	3.09	10490	16	0.3	25.42	207.1	**13800**	<0.60	**45.6**	**14.5**
CEF-076-117D	6/10/2009	7.21	28	12	0.4	26.11	-312.1	NA	NA	NA	NA

Notes: GCTL - Groundwater Cleanup Target Level
NADSC - Natural Attenuation Default Source Concentration
SU - Standard Units
µS/cm - Microsiemens per centimeter
NTU - Nephelometric turbidity units
mg/L - Milligrams per liter
°C - Degrees Celsius
mV - Millivolts
NE - Not established
NA - Not analyzed
ND - Concentration not detected above the method detection limit, limit not available
J - Concentration estimated below the reporting limit
* - DO readings from field meter, not Chemetrics Kits
** - Data not available due to meter malfunction
Exceeds the GCTL
Exceeds the GCTL and NADSC

TABLE 3
LABORATORY ANALYTICAL RESULTS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)															POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Methyl-tert-butyl-Ether	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Propylbenzene	Naphthalene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	50	0.8	NE	5	10	10	NE	14	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	500	8	NE	50	100	100	NE	140	140	48	280	280	2100	2100	50000
CEF-372-13R	1/24/2005	ND	18.3	ND	7.18	ND	ND	ND	ND	8.22	ND	ND	ND	ND	ND	122 J	ND	ND	ND	ND	ND	ND	8480 JB
	11/18/2005	ND	ND	ND	ND	ND	ND	ND	ND	1.92 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	436 JB
	2/13/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.86 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	491 JB
	5/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	901
	8/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190 JB
	5/22/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/23/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	380
	3/3/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	335
	6/10/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
CEF-076-49S	11/17/2005	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/16/2006	1.61	ND	ND	8.23	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/2006	ND	ND	ND	8.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/29/2007	19	0.19 J	ND	2.9	ND	ND	ND	ND	0.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	170 J
	10/26/2007	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03 J	0.11 J	ND	ND	ND
	10/9/2008	52.3	0.67 I	<0.35	12.5	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	1.6 I	0.45 I	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	215
	12/15/2008	1.3	<0.43	<0.35	1.94 I	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	0.22 I	<0.20	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	196 I
	3/3/2009	1.0	<0.43	<0.35	1.65 I	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<0.61	0.3	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	279
	6/10/2009	1.0	<0.43	<0.35	1.96	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	0.30 I	<0.20	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	199
CEF-076-50I	1/25/2005	318	ND	ND	1910	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	141 J	ND	ND	ND	ND	ND	ND	3310 JB
	11/21/2005	3360 J	ND	ND	2400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	54 J	ND	ND	ND	ND	ND	ND	3080 JB
	2/14/2006	5020	71.2 J	ND	586	ND	ND	ND	ND	ND	ND	277 JB	ND	ND	ND	21.2 J	ND	ND	ND	ND	ND	ND	1840 JB
	5/15/2006	7200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.9 J	ND	ND	ND	ND	ND	ND	1050
	8/15/2006	2230 J	15.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.96 J	ND	ND	ND	ND	ND	ND	183 JB
	5/29/2007	20	0.28 J	ND	4.8	ND	ND	ND	ND	0.31 J	ND	ND	ND	ND	ND	0.18 JB	ND	ND	ND	ND	ND	ND	190 J
	10/26/2007	67	0.57 J	0.16 J	6.6 J	ND	0.3 J	ND	ND	0.15 J	ND	ND	ND	ND	ND	0.35 J	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	3.6	<0.43	<0.35	2.7 I	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	0.32 I	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	237
	12/15/2008	82.4	0.80 I	<0.35	18.2	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	1.6 I	0.43 I	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	259
	3/3/2009	67.3	0.77 I	<0.35	15.1	<0.20	<0.34	<0.32	<0.26	0.21 I	<0.32	<0.61	1.4 I	0.33 I	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	260
	6/10/2009	24.6	0.53 I	<0.35	12.2	<0.20	0.38 I	<0.32	<0.26	0.28 I	<0.32	<1.0	2.2	0.69 I	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	245

TABLE 3
LABORATORY ANALYTICAL RESULTS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)															POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Methyl-tert-butyl-Ether	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Propylbenzene	Naphthalene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	50	0.8	NE	5	10	10	NE	14	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	500	8	NE	50	100	100	NE	140	140	48	280	280	2100	2100	50000
CEF-076-57S	11/17/2005	33.6	11.7	ND	ND	ND	ND	ND	ND	3.46 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/15/2006	81.8	6.2	ND	ND	ND	ND	ND	ND	2.81 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/17/2006	23.7	2.01 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/2006	7.02	1.72 J	ND	3.21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/23/2007	1.8	0.31 J	ND	1.5	ND	ND	ND	ND	0.28 J	ND	ND	ND	ND	ND	0.16 JB	ND	ND	ND	ND	ND	ND	240 J
	10/26/2007	2.9	0.36 J	ND	2.2 J	ND	ND	ND	ND	0.27 J	ND	ND	ND	ND	ND	0.18 J	ND	ND	ND	ND	ND	ND	ND
	10/10/2008	3.7	0.51 I	<0.35	2.19 I	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	0.27 I	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	255
	12/15/2008	3.5	0.69 I	<0.35	1.5	<0.20	<0.34	<0.32	<0.26	0.27 I	<0.32	<1.0	0.40 I	0.28 I	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	206
	3/3/2009	3.9	1.6	<0.35	4	<0.20	<0.34	<0.32	<0.26	0.37 I	<0.32	<1.0	1.0 I	0.45 I	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<170
	6/10/2009	3.3	1.6	<0.35	5.8	<0.20	<0.34	<0.32	<0.26	0.48 I	<0.32	<1.0	1.4 I	0.69 I	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<160
CEF-076-61I	11/17/2005	ND	36.9 J	ND	73.8	ND	ND	ND	ND	9.41 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/15/2006	1.36	22.8	ND	24.2	ND	ND	ND	ND	21.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/17/2006	1.58	10.9	ND	18	ND	ND	ND	ND	18.9	ND	ND	ND	ND	ND	76.5 J	ND	ND	24.2 J	ND	ND	ND	ND
	8/16/2006	ND	3.06 J	ND	5.2	ND	ND	ND	ND	10.9 J	ND	3.02 JB	ND	ND	ND	45.2 J	ND	ND	11 J	ND	ND	ND	ND
	5/22/2007	9.2	1.2	ND	4.8	ND	ND	ND	ND	3.3	ND	ND	ND	ND	ND	10	ND	ND	1.4	2.2	ND	ND	1100
	10/26/2007	8.8	1.2	ND	4.8 J	ND	ND	ND	ND	2.2	ND	ND	ND	ND	ND	11 J	ND	ND	1.8 J	2.6 J	0.29 J	0.022 J	760
	10/10/2008	3.9	1.7	<0.35	6.4	<0.20	<0.34	<0.32	<0.26	1.4	<0.32	<1.0	21.4	7	1.8	19.9	8.4	<0.49	1.3 I	1.8 I	<0.97	<0.49	445
	12/16/2008	3.8	1.5	<0.35	6.2	<0.20	<0.34	<0.32	<0.26	1.3	<0.32	<1.0	15.6	5.3	1.3	12.2	6.3	<0.48	0.93 I	1.3 I	<0.96	<0.48	459
	3/3/2009	7.4	1.8	<0.35	7	<0.20	<0.34	<0.32	<0.26	2	<0.32	<1.0	20.5	6.8	1.3	16.1	7.9	<0.48	1.1 I	1.9	<0.96	<0.48	529
	6/10/2009	6.9	1.3	<0.35	6.1	<0.20	<0.34	<0.32	<0.26	1.4	<0.32	<1.0	14.6	5.4	1.5	12.8	4.2	<0.48	0.71 I	1.0 I	<0.96	<0.48	342
CEF-076-70I	1/25/2005	834	50.3	11.1 J	3680	ND	ND	ND	ND	63.7	ND	ND	ND	ND	ND	40.7 J	ND	ND	ND	ND	ND	ND	9210 JB
	11/21/2005	300	ND	ND	2340	ND	ND	ND	ND	57.5 JB	ND	ND	ND	ND	ND	104 J	ND	ND	ND	ND	ND	ND	496 B
	2/14/2006	206	ND	ND	2630	ND	ND	ND	ND	39.9 J	ND	ND	ND	ND	ND	34.2	ND	ND	ND	ND	ND	ND	3780 JB
	5/11/2006	231	ND	ND	2810	ND	ND	ND	ND	72.6 J	ND	ND	ND	ND	ND	65.3 J	ND	ND	ND	ND	ND	ND	5170
	8/15/2006	70.8	ND	ND	1320	ND	ND	ND	ND	70.1	ND	10.4 JB	ND	ND	ND	77.4 J	ND	ND	ND	ND	ND	ND	1640 JB
	5/23/2007	1300	6.6 J	ND	280	ND	ND	ND	ND	52	ND	ND	ND	ND	ND	24 JB	ND	ND	0.12 J	ND	ND	ND	1700 J
	10/25/2007	1800	7.1 J	ND	280 J	ND	ND	ND	ND	41	ND	14 J	ND	ND	ND	28	ND	ND	0.2	0.16	ND	ND	1600
	10/9/2008	566	9.8	<1.8	163.4	<1	<1.7	<1.6	<1.3	25.2	<1.6	31.8 V	113	39	17.4	28.2	17.1	<0.48	<0.48	<0.48	<0.96	<0.48	659
	12/15/2008	400	10.1	<3.5	189.4	<2	<2.4	<3.2	<2.6	20.1	<3.2	38.4 I	106	31.6	15.9	20.8 I	24.7	<0.49	<0.49	<0.49	<0.98	<0.49	655
	3/3/2009	178	7.4	<1.8	118	<1	<1.7	<1.6	<1.3	12.2	<1.6	8.5 V	70.9	21.7	15.9	14.4 I	12.4	<0.49	<0.48	<0.48	<0.96	<0.48	592
	6/10/2009	179	9.7	<1.8	147.5	<1.0	<1.7	<1.6	<1.3	15.6	<1.6	<5.0	90.6	30.7	14.4	20.5 I	12.1	<0.48	<0.48	<1.9	<0.96	<0.48	458

TABLE 3
LABORATORY ANALYTICAL RESULTS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)															POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Methyl-tert-butyl-Ether	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Propylbenzene	Naphthalene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	50	0.8	NE	5	10	10	NE	14	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	500	8	NE	50	100	100	NE	140	140	48	280	280	2100	2100	50000
CEF-076-93S	1/24/2005	1890	1300	7800	5610	ND	ND	ND	ND	72.8 J	ND	ND	ND	ND	ND	3.73 J	ND	ND	ND	ND	ND	ND	12100 JB
	11/18/2005	27.2	83.5	235	443	ND	ND	ND	ND	9.22 J	ND	7.85 JB	ND	ND	ND	30.8 J	ND	ND	ND	ND	ND	ND	1620 JB
	2/13/2006	11.8	75.4	193	502	ND	ND	ND	ND	4.5 J	ND	ND	ND	ND	ND	26.6 J	ND	ND	8.96 J	6.46 J	ND	ND	112 JB
	5/10/2006	37.9	259	607	1640	ND	ND	ND	ND	27.7 J	ND	ND	ND	ND	ND	66.9 J	ND	ND	18	ND	ND	ND	7790 J
	8/14/2006	23.1	318	515	2090	ND	ND	ND	ND	27.6	ND	14 JB	ND	ND	ND	93.9 J	ND	ND	31.9	ND	ND	ND	4520 JB
	5/15/2007	26	140	320 JB	860	ND	ND	ND	ND	23	ND	2.3 JB	ND	ND	ND	9.2 JB	ND	ND	6.1	6.8	ND	ND	5300
	10/24/2007	ND	1.9	1.4 JB	9.8 J	ND	ND	ND	ND	0.93	ND	ND	ND	ND	ND	0.23	ND	0.023 J	0.17	0.23	0.05	0.04 J	160 J
	10/10/2008	0.44 I	2.0	1.7	7.3	<0.21	<0.34	<0.32	<0.26	0.84 I	<0.32	<1.0	1.8 I	0.71 I	0.94 I	<1.0	<0.96	<0.48	0.49 I	1.1 I	<0.96	<0.48	243
	12/15/2008	<0.40	0.83 I	0.80 I	3.7	<0.21	<0.34	<0.32	<0.26	0.32 I	<0.32	<1.0	0.37 I	0.23 I	<0.25	<1.0	1.1 I	<0.48	0.65	1.6 I	<0.96	<0.48	244
	3/3/2009	<0.40	3.90	1.50	19.3	<0.21	<0.34	<0.32	<0.26	1.2	<0.32	<1.0	1.8 I	0.52 I	<0.25	1.4 I	1.1 I	<0.48	<0.48	0.75 I	<0.96	<0.48	173
	6/10/2009	<0.40	0.49 I	<0.35	2.7	<0.21	<0.34	<0.32	<0.26	1.7	0.37 I	<1.0	1.1 I	0.80 I	0.47 I	1.3 I	<0.96	<0.48	<0.48	0.60 I	<0.96	<0.48	<160
CEF-076-94S	1/25/2005	3040	1310	3800	4850	ND	ND	ND	ND	86.5 J	ND	ND	ND	ND	ND	193 J	ND	ND	ND	ND	ND	ND	15500 JB
	11/18/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	ND	ND	ND	ND	ND	ND	404 JB
	2/13/2006	0.993 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.98 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	200 JB
	5/10/2006	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.696	ND	ND	ND	ND	ND	ND	304
	8/14/2006	ND	ND	ND	ND	1.24 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	97 JB
	5/15/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/10/2008	0.46 I	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	211 I
	12/15/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	215 I
	3/3/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	238
	6/10/2009	1.5	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	182
CEF-076-95S	11/16/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/14/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.54 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/25/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/25/2007	ND	ND	0.61 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	180 J
	10/9/2008	<0.40	<0.43	33.8	<0.78	<0.20	<0.34	<0.22	<0.26	<0.20	31.3	<0.61	<0.22	<0.20	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	627
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.22	<0.26	<0.20	31.3	<1.0	<0.22	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<170
	3/3/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.22	<0.26	<0.20	31.3	<1.0	<0.22	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	6/10/2009	<0.40	<0.43	4.4	<0.78	<0.20	<0.34	<0.22	<0.26	<0.20	7.3	<1.0	<0.22	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<160

TABLE 3
LABORATORY ANALYTICAL RESULTS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)															POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Methyl-tert-butyl-Ether	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Propylbenzene	Naphthalene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	50	0.8	NE	5	10	10	NE	14	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	500	8	NE	50	100	100	NE	140	140	48	280	280	2100	2100	50000
CEF-076-98D	1/25/2005	**1090 J**	**8.33 J**	ND	**62.3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**20.3**	ND	ND	ND	ND	ND	ND	**811 B**
	11/21/2005	**283**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5.06**	ND	ND	ND	ND	ND	ND	**9340 B**
	2/14/2006	**1.54**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.41 JB**	ND	ND	ND	**5.07**	ND	ND	ND	ND	ND	ND	**82.8 JB**
	5/11/2006	**4.62**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**312 J**
	8/15/2006	**22.3**	ND	ND	**6.82**	ND	ND	ND	ND	ND	ND	**1.05 JB**	ND	ND	ND	**2.18**	ND	ND	ND	ND	ND	ND	**137 JB**
	5/25/2007	**91**	**0.27 J**	ND	**7.2**	ND	ND	ND	ND	**0.32 J**	ND	ND	ND	ND	ND	**1.5**	ND	ND	**0.02 J**	**0.037 J**	ND	ND	**330 J**
	10/24/2007	**120**	**0.38 J**	**0.22 JB**	**8.8 J**	ND	ND	ND	ND	**0.24 J**	ND	ND	ND	ND	ND	**2.1**	ND	ND	ND	**0.046 J**	ND	ND	**160 J**
	10/9/2008	**85**	**0.67 I**	<0.35	**5.8 I**	<0.20	<0.34	<0.32	<0.26	**0.25 I**	<0.32	<1.0	**2.4**	**0.75 I**	<0.25	**2.6 I**	**1.7 I**	<0.48	<0.48	<0.48	<0.96	<0.48	**231 I**
	12/16/2008	**71.7**	**0.94 I**	<0.35	**8.7**	<0.20	<0.34	<0.32	<0.26	**0.28 I**	<0.32	<1.0	**2.7**	**0.78 I**	<0.25	**1.8 I**	**2.3**	<0.48	<0.48	<0.48	<0.96	<0.48	**239 I**
	3/3/2009	**36.2**	**0.58 I**	<0.35	**4.2**	<0.20	<0.34	<0.32	<0.26	<0.2	<0.32	<1.0	**1.6 I**	**0.49 I**	<0.25	**1.7 I**	**1.2 I**	<0.48	<0.48	<0.48	<0.96	<0.48	**364**
	6/10/2009	**28.4**	**0.49 I**	<0.35	**4.7**	<0.20	<0.34	<0.32	<0.26	<0.2	<0.32	<1.0	**1.7 I**	**0.57 I**	<0.25	**2.4 I**	**0.97 I**	<0.48	<0.48	<0.48	<0.96	<0.48	<160
CEF-076-99D	11/16/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/17/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/16/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.62 JB**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/22/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/24/2007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**190 I**
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	**182 I**
	3/3/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	<160
	6/10/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	**245**
CEF-076-100D	11/17/2005	**23.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/16/2006	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/16/2006	**1.27**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/2006	**1.07**	ND	ND	ND	ND	ND	**2.06 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/29/2007	**0.12 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.047 JB**	ND	ND	ND	**0.019 JB**	ND	ND	ND
	10/25/2007	**0.31 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.24	<0.32	<0.26	<0.20	<0.32	<0.61	<0.22	<0.20	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	12/16/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.24	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	3/3/2009	<0.40	<0.43	<0.35	<0.78	<0.20	<0.24	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	6/10/2009	**0.47 I**	<0.43	<0.35	<0.78	<0.20	<0.24	<0.32	<0.26	<0.20	<0.32	<1.0	<0.22	<0.20	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160

TABLE 3
LABORATORY ANALYTICAL RESULTS

North Fuel Farm
NAS Cecil Field
Jacksonville, Florida

Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)															POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Methyl-tert-butyl-Ether	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Propylbenzene	Naphthalene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	50	0.8	NE	5	10	10	NE	14	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	500	8	NE	50	100	100	NE	140	140	48	280	280	2100	2100	50000
CEF-076-104D	11/16/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/15/2006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/2006	**0.838 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.948 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/29/2007	**0.5 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/25/2007	**3.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10/9/2008	**5.8**	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<0.61	<0.22	<0.20	<0.25	<1	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	12/15/2008	<0.40	<0.43	<0.35	<0.78	<0.20	<0.34	<0.32	<0.26	<0.20	<0.32	<0.61	<0.22	<0.20	<0.25	<1	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
	3/3/2009	Well destroyed during construction activities																					
CEF-076-110D	1/25/2005	**1150**	ND	ND	**88.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**499 JB**
	11/21/2005	**597**	ND	ND	**38.2 J**	ND	ND	ND	ND	**19.2 JB**	ND	ND	ND	ND	ND	**2.57 J**	ND	ND	ND	ND	ND	ND	**2700 B**
	2/14/2006	**434**	ND	ND	**42.3 J**	ND	ND	ND	ND	ND	ND	**28.6 JB**	ND	ND	ND	**2.55 J**	ND	ND	ND	ND	ND	ND	**309 JB**
	5/11/2006	**559**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.31**	ND	ND	ND	ND	ND	ND	**370**
	8/14/2006	**497**	ND	ND	**17.1 J**	ND	ND	ND	ND	ND	ND	**9.25 JB**	ND	ND	ND	**3.33**	ND	ND	ND	ND	ND	ND	**430 JB**
	5/30/2007	**110**	**0.99 J**	ND	**21 JB**	ND	ND	ND	ND	**0.51 J**	ND	ND	ND	ND	ND	**1.6**	ND	ND	ND	ND	ND	ND	**350 J**
	10/23/2007	**120**	**0.55 J**	ND	**13 J**	ND	ND	ND	ND	**0.35 J**	ND	ND	ND	ND	ND	**1 JB**	ND	ND	ND	ND	ND	ND	**190 J**
	10/9/2008	**185**	**1.9 I**	<0.70	**13.4 I**	<0.40	<0.68	<0.64	<0.52	**1.0 I**	NA	**18.8 V**	**11.3**	**3.2 I**	<0.5	**6.8 I**	**5.6**	<0.48	<0.48	<0.48	<0.95	<0.48	**347**
	12/16/2008	**175**	<2.2	<1.8	**10.4**	<0.40	<0.68	<0.64	<1.3	<1.0	NA	**13.4 I,V**	**8.6 I**	**2.5 I**	<1.3	<5.0	**4.5**	<0.50	<0.50	<0.50	<0.95	<0.48	**287**
	3/3/2009	**165**	**2.0**	<1.8	**15.8**	<0.40	<0.68	<0.64	<4	**0.72 I**	NA	**6.5 I,V**	**10.2**	**2.7 I**	<1.3	**3.6 I**	**3.2**	<0.50	<0.48	<0.48	<0.95	<0.48	**257**
	6/10/2009	**130**	**1.4 I**	<0.7	**15.1**	<0.40	<0.68	<0.64	<0.52	**0.76 I**	<0.64	<2	**10.6**	**3.4 I**	**0.59 I**	**5.6 I**	**4.0**	<0.48	<0.48	<0.48	<0.96	<0.48	**183**
CEF-076-113S	1/25/2005	**7730**	**1130**	**85.3 J**	**4740**	ND	ND	ND	ND	**87.7 J**	ND	ND	ND	ND	ND	**87.3 J**	ND	ND	ND	ND	ND	ND	**12700 JB**
	11/18/2005	**7940**	**878 J**	ND	**4010**	ND	ND	ND	ND	**400 J**	ND	ND	ND	ND	ND	**293 J**	ND	ND	ND	ND	ND	ND	**6090 JB**
	2/13/2006	**9680**	**953 J**	ND	**1790**	ND	ND	ND	ND	ND	ND	**315 JB**	ND	ND	ND	**150 J**	ND	ND	**38.6 J**	**26.2 J**	ND	ND	**3510 JB**
	5/10/2006	**13100**	**1060**	ND	**1880**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**103 J**	ND	ND	**23.1 J**	ND	ND	ND	**7290**
	8/14/2006	**10500**	**1300**	ND	**2500**	ND	ND	ND	ND	ND	ND	**195 JB**	ND	ND	ND	**157 J**	ND	ND	**27.1 J**	ND	ND	ND	**4060 JB**
	5/24/2007	**9900**	**1100**	ND	**1900**	ND	ND	ND	ND	**91 J**	ND	ND	ND	ND	ND	**50 JB**	ND	ND	**4**	**5.8**	ND	ND	**5400**
	10/25/2007	**9000**	**800**	ND	**1600 J**	ND	ND	ND	ND	**72**	ND	**37 J**	ND	ND	ND	**47**	ND	ND	**2.7**	**3.6**	ND	**0.029 J**	**5600**
	10/10/2008	**11600**	**374**	<70	**1643**	<40	<68	<64	<52	**49.9 I**	<64	<200	**206 I**	**77.7**	<50	<200	**53.8**	<0.48	**1.6 I**	**4.3**	0.96U	<0.48	**2120**
	12/16/2008	**10800**	**155 I**	<70	**1163**	<40	<68	<64	<52	<40	<64	**509 I,V**	**138 I**	**47.2 I**	<50	<200	**37.1**	<0.48	**1.2 I**	**1.8 I**	<0.96	<0.48	**1970**
	3/3/2009	**12500**	**345**	<70	**1432**	<40	<68	<64	<52	**59**	<64	**393 I,V**	**238 I**	**71.6 I**	<50	<200	**54.9**	<0.48	**2.0**	**3.9**	<0.96	<0.48	**2560**
	6/10/2009	**9120**	**459**	<70	**1135**	<40	<68	<64	<52	**54**	<64	<200	**230**	**83.3**	**50.4**	<200	**39.2**	<0.48	**2.0**	**9.5**	<0.96	<0.48	**1650**

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North Fuel Farm
NAS Cecil Field
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Well ID	Sample Date	VOLATILE ORGANIC COMPOUNDS (µg/L)															POLYCYCLIC AROMATIC HYDROCARBONS (µg/L)						TRPH (C8 - C40) (µg/L)
		Benzene	Ethylbenzene	Toluene	Xylenes, total	cis-1,2-Dichloroethene	1,2-Dichloroethane	Trichloroethene (TCE)	Methyl-tert-butyl-Ether	Isopropylbenzene (Cumene)	p-Isopropyltoluene	Methylene chloride	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	n-Propylbenzene	Naphthalene	Naphthalene by Method 8310	Chrysene	1-Methylnaphthalene	2-Methylnaphthalene	Phenanthrene	Pyrene	
GCTL (µg/L)		1	30	40	20	70	3	3	50	0.8	NE	5	10	10	NE	14	14	4.8	28	28	210	210	5000
NADSC (µg/L)		100	300	400	200	700	30	30	500	8	NE	50	100	100	NE	140	140	48	280	280	2100	2100	50000
CEF-076-116D	11/17/2005	**176**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	2/15/2006	**324**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/15/2006	**517**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	8/17/2006	**256**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	5/29/2007	**45**	**0.17 J**	ND	**1.8**	ND	ND	ND	ND	**0.15 J**	ND	ND	ND	ND	ND	**0.061 JB**	ND	**0.045JB**	**0.029 JB**	**0.049JB**	**0.054JB**	**0.077JB**	**170 J**
	10/25/2007	**57 J**	ND	ND	**2.8 J**	ND	ND	ND	ND	**0.3 J**	ND	ND	ND	ND	ND	**0.12 J**	ND	ND	ND	ND	ND	ND	ND
	10/10/2008	**80.1**	**1.2 I**	<0.70	**1.0 I**	<0.40	<0.68	<0.64	<0.52	<0.40	<0.64	<2.0	**2.6 I**	<0.40	<0.5	<2.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	**185 I**
	12/16/2008	**68.9**	**0.49 I**	<0.35	**3.2 I**	<0.40	<0.68	<0.64	<0.26	**0.36 I**	<0.32	<1.0	**3.7**	**0.39 I**	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.96	<0.48	**231 I**
	3/3/2009	**45**	<0.43	<0.35	**1.3**	<0.40	<0.68	<0.64	<0.26	**0.31 I**	<0.32	<1.0	**2.7**	**0.31 I**	<0.25	<1.0	<0.95	<0.48	<0.48	<0.48	<0.95	<0.48	**191 I**
	6/10/2009	**21.3**	<0.43	<0.35	<0.78	<0.40	<0.68	<0.64	<0.26	**0.22 I**	<0.32	<1.0	**2.2**	**0.31 I**	<0.25	<1.0	<0.96	<0.48	<0.48	<0.48	<0.96	<0.48	<160
CEF-076-117D	6/10/2009	<0.40	**0.80 I**	<0.35	<0.78	<0.40	<0.68	<0.64	<0.26	**2.6**	<0.32	<1.0	**24.6**	**9.1**	**3.0**	**2.1 I**	**1.0 I**	<0.48	<0.48	<1.9	<0.95	<0.48	**316**

Notes:
µg/L - Micrograms per liter
GCTL - Groundwater Cleanup Target Level
NADSC - Natural Attenuation Default Source Concentrations
Bold indicates values above the method detection limit.
Shading indicates: Exceeds the GCTL
Exceeds both the GCTL and NADSC
J and I - Estimated Concentration
JB - Analyte was detected in the associated method and/or calibration blank
ND - No Data Available
V - Analyte detected in associated method blank, suspected lab contaminant
A - Indicates associated BS recovery outside control limits

APPENDIX A

GROUNDWATER SAMPLING LOGS

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-372-13R | **Sample ID:** CEF-372-13R | **Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE (Teflon)	4.52	Peristaltic Pump	1.5 to 11.5 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2 above bottom	11:20	11:50	1.1	

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
11:26	0.15	0.15	150	4.54	3.78	25.94	324	3.35	56.5	77.4	cloudy	none
11:31	0.25	0.4	150	4.58	7.02	25.65	323	2.36	69.2	83.8	cloudy	none
11:35	0.2	0.6	125	4.57	7.02	25.47	321	2.01	54.0	84.9	cloudy	none
11:38	0.2	0.8	125	4.58	7.01	25.37	321	1.86	49.4	87.2	clear	none
11:42	0.1	0.9	100	4.57	7.00	25.26	322	1.57	37.5	91.0	clear	none
11:45	0.1	1.0	100	4.59	6.99	25.28	322	1.48	31.5	92.1	clear	none
11:48	0.1	1.1	100	4.58	6.99	25.21	324	1.38	29.9	93.8	clear	none

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Jad Bean / Terraine	[signature]	11:50	12:15

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y N

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: only had enough sample to fill 1.5 VOC vials, using straw method

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU, optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field	**Site Location:** Jacksonville, Florida
Well Number: CEF-076-49S	**Sample ID:** CEF-076-49S **Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 2 3 4	1/4 3/8 1/2	LDPE Teflon	4.35	Peristaltic Pump	45 to 50 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' off bottom	1137	1153	1.0 gal	

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1145	0.4	0.4	250	4.60	3.07	26.07	2607	1.37	5.49	425.1	clear	—
1148	0.2	0.6	250	4.61	3.07	26.08	2600	1.34	4.89	427.2		
1151	0.2	0.8	250	4.62	3.07	26.14	2595	1.29	2.56	427.1		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Burke Cathey/Terraine	Burke Cathey	1153	1228

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits: DO: 0.9

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field	**Site Location:** Jacksonville, Florida
Well Number: CEF-076-50I**	**Sample ID:** CEF-076-50I **Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	1/4 3/8 1/2	LDPE Teflon	4.21	Peristaltic Pump	75 to 80 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' off bottom	1235	1252	0.85	

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1244	0.4	0.4	250	4.39	3.39	26.53	3975	1.31	3.96	307.6	clear	—
1247	0.2	0.6	250	4.40	3.40	26.51	3970	1.19	2.81	295.1		
1250	0.2	0.8	250	4.40	3.41	26.40	3972	1.12	2.51	286.0		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Burke Cathey / Terraine	Burke Cathey	1252	1315

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

** Denotes hazardous well

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field	**Site Location:** Jacksonville, Florida
Well Number: CEF-076-57S	**Sample ID:** CEF-076-57S **Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 2 3 4	1/4 3/8 1/2	LDPE Teflon	3.78	Peristaltic Pump	30 to 35 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' off bottom	1655	1714	0.7	

6/10 BC

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
~~1705~~	~~0.3~~	~~200~~										
1705	0.3	0.3	200	4.25	3.04	25.13	2300	1.32	10.1	414.8	clear	—
1709	0.2	0.5	200	4.26	3.04	24.97	2311	1.19	9.51	415.0		
1712	0.1	0.6	200	4.27	3.04	25.06	2309	1.12	8.97	415.0		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Burke Cathey/Terraine	[signature]	1714	1747

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y N	Y N	µm		Y N

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits: DO: 1.0

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field		**Site Location:** Jacksonville, Florida
Well Number: CEF-076-61I	**Sample ID:**	**Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE (Teflon)	7.49	Peristaltic Pump	65 to 70 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' from bottom	1645	1705	0.8	225

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1650		0.1	225	7.64	2.59	24.36	7370	0.61	271.5	41	—	—
1655		0.4	"	7.65	2.60	24.37	7361	0.55	279.2	33	—	—
1700		0.6	"	7.65	2.61	24.35	7350	0.63	260.2	38	—	—
1705		0.8	"	7.65	2.61	24.41	7281	0.69	249.0	37	—	—

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Joshua Clay Solutions-IES	[signature]	1705	1730

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	NA µm	NA	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits: DO: 0.7

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field	**Site Location:** Jacksonville, Florida
Well Number: CEF-076-70I**	**Sample ID:** CEF-076-70I **Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	(LDPE) Teflon	4.91	Peristaltic Pump	65 to 70 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' off bottom	1755	1813	0.9	

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1805	0.4	0.4	225	4.76	3.36	26.97	5876	1.59	4.80	232.5	clear	—
1808	0.2	0.6	225	4.76	3.35	26.81	5893	1.50	4.68	223.4		
1811	0.2	0.8	225	4.76	3.35	26.70	5898	1.43	4.54	219.2		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Burke Cathey / Terraine	Burke Cathey	1813	1840

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

** Denotes hazardous well

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-076-93S | **Sample ID:** CEF-076-93S | **Date:** 6/16/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	(LDPE) ~~Teflon~~	6.00	Peristaltic Pump	25 to 30 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' off bottom	0955	1020	0.75	175

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1005	0.3	0.3	175	6.58	3.86	25.65	291	1.51	66.9	-21.3	Tea	—
1008	0.1	0.4	175	6.60	3.93	25.66	289	1.55	63.0	-28.6	Tea	
1011	0.1	0.5	175	6.60	4.04	25.70	289	1.44	58.2	-35.5		
1014	0.1	0.6	175	6.60	4.15	25.72	288	1.32	55.6	-41.1		
1017	0.1	0.7	175	6.60	4.22	25.67	287	1.30	54.4	-38.1		

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Burke Cathey/Terraine	[signature]	1020	1045

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: only able to fill 2 VOC's

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field	**Site Location:** Jacksonville, Florida
Well Number: CEF-076-94S	**Sample ID:**	**Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE (Teflon)	7.46	Peristaltic Pump	5 to 15 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
unable to hit bottom	1104	1146	2.6	250

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1109	.2	.2	250	7.64	4.14	26.12	316	1.36	31.8	18.7	—	—
1114	.35	.55	250	7.64	3.65	26.09	314	1.23	24.3	27.2	—	—
1119	.35	.9	250	7.64	3.76	26.17	311	1.16	19.5	29.1	—	—
1124	.35	1.25	250	7.64	4.00	26.21	305	.92	14.8	26.7	—	—
1129	.3	1.55	250	7.64	4.23	26.23	301	.72	14.3	25.8	—	—
1134	.3	1.85	250	7.64	4.39	26.25	298	.54	14.8	18.5	—	—
1139	.35	2.2	250	7.64	4.58	26.27	296	.54	17.8	15.8	—	—
1144	.4	2.6	250	7.64	4.67	26.28	297	.58	21.2	19.1	—	—

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Traci Fulkerson/Terraine	[signature]	1146	1205

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field		**Site Location:** Jacksonville, Florida
Well Number: CEF-076-95S	**Sample ID:**	**Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	1/4 (3/8) 1/2	LDPE Teflon	5.59	Peristaltic Pump	5 to 15 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2 feet above bottom	1653	1754	3.75	250

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1658	.1	.1	250	5.98	5.50	26.73	170	2.73	123	.9	murky	—
1703	.3	.4	250	6.30	3.57	24.32	139	.97	62.6	47.7	less murky	—
1708	.3	.7	250	6.34	3.62	24.59	132	1.17	63.5	53.8	—	—
1713	.3	1.0	250	6.34	3.99	24.71	132	1.76	62.4	49.5	—	—
1718	.4	1.4	250	6.37	4.18	24.51	135	2.12	61.5	39.5	—	—
1723	.25	1.65	250	6.38	4.48	24.79	139	2.36	59.4	24.8	—	—
1728	.35	2.0	250	6.39	4.82	24.70	137	2.10	65.9	11.6	—	—
1733	.45	2.45	250	6.40	5.28	24.93	138	2.88	62.2	-10.0	—	—
1738	.35	2.75	250	6.40	5.32	25.10	136	2.38	61.9	-10.0	—	—
1743	.35	3.1	250	6.39	5.55	25.09	134	2.25	57.3	-18.6	—	—
1748	.35	3.45	250	6.40	5.56	25.10	134	2.13	51.3	-18.6	—	—
1753	.3	3.75	250	6.41	5.66	25.09	133	2.15	45.1	-23.6	—	—

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Traci Fulkerson/Terraine	[signature]	1754	1823

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	n/a µm	n/a	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits: DO: 2

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU, optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field	**Site Location:** Jacksonville, Florida
Well Number: CEF-076-98D	**Sample ID:** CEF-076-98D **Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE Teflon	13.81	Peristaltic Pump	105 to 110 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' above bottom	12:40	13:~~08~~ 10 JRB	0.8	

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
12:54	0.5	0.5	80	14.62	3.75	27.30	7972	0.52	22.1	96.7	clear	none
12:59	0.1	0.6	80	15.14	3.73	27.34	7916	0.41	10.9	94.5	clear	none
13:02	0.1	0.7	80	15.62	3.77	27.54	7861	0.34	6.26	94.1	clear	none
13:06	0.1	0.8	80	15.88	3.75	27.61	7822	0.28	4.38	92.5	clear	none

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Jad Bean / Terraine	[signature]	13:10	13:50

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field		**Site Location:** Jacksonville, Florida
Well Number: CEF-076-99D	**Sample ID:**	**Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE (Teflon)	9.84	Peristaltic Pump	95 to 100 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
unable to touch bottom	1230	1321	2.3	125

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1235	.2	.2	200	11.01	5.75	29.94	2665	.97	4.65	-28.8	—	—
1240	.3	.5	200	11.70	5.77	29.79	2670	.69	2.38	-32.0	—	—
1245	.2	.7	200	12.09	5.85	29.78	2661	.59	2.16	-36.6	—	—
1250	.3	1.0	200	12.33	5.85	29.83	2666	.47	1.67	-35.8	—	—
1255	.3	1.3	200	12.55	6.02	29.74	2657	.43	1.87	-38.7	—	—
1300	.25	1.55	200	12.50	6.08	29.93	2670	.34	1.69	-40.6	—	—
1305	.15	1.70	125	12.38	6.04	29.68	2650	.40	1.47	-40.0	—	—
1310	.15	1.85	150	12.39	6.03	29.65	2646	.37	1.31	-39.2	—	—
1315	.25	2.1	125	12.36	6.20	29.80	2659	.24	1.22	-41.3	—	—
1320	.2	2.3	125	12.34	6.22	29.80	2660	.31	1.37	-42.2	—	—

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Traci Fulkerson/Terraine	[signature]	1321	1412

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	n/a µm	n/a	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits: DO: 0.1

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-076-100D | **Sample ID:** CEF-076-100D | **Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	3.60	Peristaltic Pump	110 to 115 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' above bottom	16:40	17:09	0.9	

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
16:45	0.05	0.05	175	4.72	6.21	25.35	2437	3.65	36.7	-54.5	clear	none
16:51	0.25	0.3	125	5.88	6.06	25.44	2789	1.14	28.9	-48.1	clear	none
16:56	0.2	0.5	125	6.38	6.05	25.19	2925	0.89	40.6	-48.4	clear	none
17:00	0.1	0.6	100	6.69	6.06	24.94	3062	0.66	29.1	-47.6	clear	none
17:03	0.1	0.7	100	6.97	6.00	24.94	3178	0.59	31.4	-43.8	clear	none
17:06	0.1	0.8	100	7.10	6.05	24.86	3281	0.56	30.2	-42.0	clear	none

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Jad Bean / Terraine	[signature]	17:10	18:05

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y N

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: Original dedicated tubing broke; re-tubed w/ 3/8" LDPE tubing

Field Kits: DO: 0.5

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field		**Site Location:** Jacksonville, Florida
Well Number: CEF-076-110D**	**Sample ID:** CEF-076-110D	**Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE (Teflon)	10.34	Peristaltic Pump	105 to 110 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' above bottom	18:38	18:55	1.0	

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
18:40	0.01	0.01	225	11.63	3.00	24.98	6113	0.77	63.0	321.6	clear	none
18:43	0.29	0.3	200	12.18	3.03	24.63	6096	0.48	16.5	307.0	clear	none
18:49	0.4	0.7	100	12.41	3.05	24.38	6092	0.56	8.32	298.1	clear	none
18:52	0.1	0.8	100	12.42	3.03	24.38	6084	0.55	8.58	296.9	clear	none
18:55	0.1	0.9	100	12.42	3.06	24.30	6179	0.59	7.99	290.5	clear	none

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Jad Bean / Terraine	[signature]	18:55	

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	µm		Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks:

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

** Denotes hazardous well

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field		**Site Location:** Jacksonville, Florida
Well Number: CEF-076-113S**	**Sample ID:**	**Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE Teflon	7.35	Peristaltic Pump	35 to 40 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' from bottom	1750	1805		250mL/min

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1755		0.1	250	7.41	3.25	26.10	3106	0.77	9.94	202.1	—	—
1800		0.3	"	7.43	3.26	26.02	3078	0.66	7.58	151.8	—	—
1805		0.5	"	7.43	3.26	26.00	3072	0.61	6.37	127.1	—	—

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Joshua Clay Solutions-IES	[signature]	1805	

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	NA µm	NA	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: DO confirmed @ 0.6 w/ Chemetrics kit.

Field Kits:

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

** Denotes hazardous well

SOLUTIONS-IES
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field		**Site Location:** Jacksonville, Florida
Well Number: CEF-076-116D	**Sample ID:**	**Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	(1/4) 3/8 1/2	LDPE (Teflon)	11.31	Peristaltic Pump	105 to 110 feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' from bottom	12.55	1315	0.7	225

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1305		0.3	225	11.35	3.07	25.48	10393	5.82	19	254.6	—	—
1310		0.5	11	11.35	3.08	25.31	10441	5.58	17	227.7	—	—
1315		0.7	11	11.35	3.09	25.42	10490	5.28	16	207.1	—	—

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Joshua Clay Solutions-IES	[signature]	1315	1345

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	NA µm	NA	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: No meter malfunctioning

Field Kits: DO: 0.3

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

SOLUTIONS-IES -
GROUNDWATER SAMPLING LOG

Site Name: North Fuel Farm - Cecil Field | **Site Location:** Jacksonville, Florida

Well Number: CEF-076-117D** | **Sample ID:** | **Date:** 6/10/09

PURGING DATA

Well Diameter (inches):	Tubing Diameter (inches):	Tubing:	Static Depth to water (feet):	Purge pump type or bailer:	Well Screen Interval Depth:
1 (2) 3 4	1/4 (3/8) 1/2	(LDPE) Teflon	9.35	Peristaltic Pump	feet to feet

Initial Pump or Tubing Depth in well:	Purging Initiated:	Purging Ended:	Total Volume Purged (Gallons):	Sample Pump Flow Rate (mL/min):
2' from bottom	1145	1220	1.9	225

Time	Volume Purged (gallons)	Cumulative Volume Purged (gallons)	Purge Rate: (mL/min)	Depth to Water (feet)	pH (SU)	Temp (°C)	Cond (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU's)	ORP (m/v)	Color (describe)	Odor (describe)
1150		0.1	225	9.40	5.63	26.46	33	6.01	24	-91.3	—	—
1155		0.4		9.40	7.19	26.04	30	6.02	19	-283.5	—	—
1200		0.7		9.40	7.42	26.01	29	5.61	16	-319.9	—	—
1205		1.0		9.40	7.87	25.82	28	5.43	12	-315.1	—	—
1210		1.3		9.40	7.25	26.09	28	5.18	11	-321.3	—	—
1215		1.6		9.40	7.23	25.95	28	5.08	12	-322.5	—	—
1220		1.9		9.40	7.21	26.11	28	5.01	12	-312.1	—	—

Well Capacity (Gallons/Foot): **0.75"** = 0.02 **1"** = 0.04 **1.25"** = 0.06 **2"** = 0.16 **3"** = 0.37 **4"** = 0.65 **5"** = 1.02 **6"** = 1.47 **12"** = 5.88

Tubing Inside Diameter Capacity (Gallons/Foot): **1/8"** = 0.0006 **3/16"** = 0.0014 **1/4"** = 0.0026 **5/16"** = 0.004 **3/8"** = 0.006 **1/2"** = 0.010 **5/8"** = 0.016

SAMPLING DATA

Sampled By/Affiliation:	Sampler(s) Signature:	Sampling Initiated:	Sampling Ended:
Joshua Clay Solutions-IES	[signature]	1220	1250

Field Decontamination:	Field-Filtered:	Filter Size:	Filtration Equipment Type:	Duplicate:
Y (N)	Y (N)	NA µm	NA	Y (N)

SAMPLE CONTAINER INFORMATION

Sample ID Code	# Containers	Material Code	Volume	Preservative Used	Intended Analysis	Sampling Equipment Code
	2	AG	1 L	None	PAHs 8310	PP
	2	AG	1 L	H_2SO_4	TRPH FL-PRO	PP
	3	PE	250 mL	NaOH ZnAC	Sulfide 376.2	PP
	1	PE	500 mL	None	Sulfate 300.0	PP
	2	AG	40 mL	HCL	TOC 415.1	PP
	2	AG	40mL	None	Inorganic Carbon 415.2	PP
	3	CG	40 mL	HCl	VOCs 8260B	RFPP

Remarks: DO meter malfunctioning

Field Kits: DO: 0.4

Material Codes: **AG** = Amber Glass **CG** = Clear Glass **PE** = Polyethylene **PP** = Polypropylene **S** = Silicone **T** = Teflon **O** = Other (Specify)

Sampling/Purging: **APP** = After Peristaltic Pump **B** = Bailer **BP** = Bladder Pump **ESP** = Electric Submersible Pump **PP** = Peristaltic Pump

Equipment Codes: **RFPP** = Reverse Flow Peristaltic Pump **SM** = Straw Method (Tubing Gravity Drain) **VT** = Vacuum Trap **O** = Other (Specify)

Stabilization criteria for range of variation of last three consecutive readings: **pH:** + 0.2 units **Temperature:** + 0.2°C **Specific Conductance:** + 5%
Dissolved Oxygen: all readings < 20% saturation; optionally, + 0.2 mg/L or + 10% (whichever is greater)
Turbidity: all readings < 20 NTU; optionally + 5 NTU or + 10% (whichever is greater)

** Denotes Hazardous Well

APPENDIX B

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/07/09

Technical Report for

Solutions-IES, Inc

Cecil Field North Fuel Farm; Jacksonville, FL

8030.08A2.NAVF

Accutest Job Number: F65918

Sampling Date: 06/10/09

Report to:

Solutions-IES, Inc

jdehart@solutions-ies.com

ATTN: Jessica Dehart

Total number of pages in report: **61**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

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Accutest LabLink@91503 15:02 07-Jul-2009

Sample Summary

Solutions-IES, Inc

Job No: F65918

Cecil Field North Fuel Farm; Jacksonville, FL
Project No: 8030.08A2.NAVF

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F65918-1	06/10/09	11:46	JC	06/11/09	AQ	Ground Water	CEF-076-94S
F65918-2	06/10/09	10:20	JC	06/11/09	AQ	Ground Water	CEF-076-93S
F65918-3	06/10/09	13:10	JC	06/11/09	AQ	Ground Water	CEF-076-98D
F65918-4	06/10/09	11:50	JC	06/11/09	AQ	Ground Water	CEF-076-13R
F65918-5	06/10/09	12:52	JC	06/11/09	AQ	Ground Water	CEF-076-50I
F65918-6	06/10/09	11:53	JC	06/11/09	AQ	Ground Water	CEF-076-49S
F65918-7	06/10/09	13:21	JC	06/11/09	AQ	Ground Water	CEF-076-99D
F65918-8	06/10/09	13:15	JC	06/11/09	AQ	Ground Water	CEF-076-116D
F65918-9	06/10/09	12:20	JC	06/11/09	AQ	Ground Water	CEF-076-117D
F65918-10	06/10/09	00:00	JC	06/11/09	AQ	Trip Blank Water	CEF-076-TB1

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Solutions-IES, Inc **Job No:** F65918

Site: Cecil Field North Fuel Farm; Jacksonville, FL **Report Date** 6/23/2009 12:47:44

9 Samples, 1 Trip Blank were collected on 06/10/2009 and received at Accutest on 06/11/2009 properly preserved, at 2.4 Deg. C and intact. These Samples received an Accutest job number of F65918. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM1453

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F65918-1MS, F65918-1MSD were used as the QC samples indicated.

MS/MSD Recovery(s) for 2-Chloroethyl vinyl ether are outside control limits due to preservation.

RPD(s) for MSD for 2-Chloroethyl vinyl ether are outside control limits for sample F65918-1MSD. Probable cause due to sample homogeneity.

F65918-2: Sample was treated with an anti-foaming agent.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ **Batch ID:** OP29271

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F65918-1MS, F65918-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8310

Matrix: AQ **Batch ID:** OP29284

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F65913-10MS, F65913-10MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

F65918-3: All hits confirmed by spectral match using a diode array detector.

F65918-2: All hits confirmed by spectral match using a diode array detector.

F65918-9: All hits confirmed by spectral match using a diode array detector.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix: AQ **Batch ID:** GP13104

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F65918-9DUP, F65918-9MS were used as the QC samples for Sulfate.

Matrix Spike Recovery(s) for Sulfate are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method SM19 5310B/SW 9060A

Matrix: AQ **Batch ID:** GP13094

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F65681-3DUP, F65681-3MS were used as the QC samples for Total Organic Carbon.

Matrix: AQ **Batch ID:** GP13135

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F65955-1DUP, F65955-1MS were used as the QC samples for Total Carbon.

Matrix Spike Recovery(s) for Total Carbon are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method SM20 4500S F

Matrix: AQ **Batch ID:** GN35473

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F65934-1DUP, F65934-1MS were used as the QC samples for Sulfide.

Matrix Spike Recovery(s) for Sulfide are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

RPD(s) for Duplicate for Sulfide are outside control limits for sample GN35473-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method SM20 5310B, 9060M

Matrix: AQ **Batch ID:** R21499

F65918-6 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21500

F65918-7 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21501

F65918-8 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21502

F65918-9 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____ Date: June 23, 2009

Svetlana Izosimova, QA Officer (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F65918-1	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035603.D	1	06/15/09	MM	n/a	n/a	VM1453
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	1.5	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F65918-1	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F65918-1	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	102%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F65918-1	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE062548.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		43-121%
92-94-4	p-Terphenyl	71%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-94S		
Lab Sample ID:	F65918-1	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87460.D	1	06/16/09	SL	06/12/09	OP29271	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.182	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F65918-2	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	M0035620.D	1	06/15/09	MM	n/a	n/a	VM1453
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.39	1.0	0.25	ug/l	I
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F65918-2	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.49	1.0	0.43	ug/l	I
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	1.7	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.37	1.0	0.32	ug/l	I
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.3	5.0	1.0	ug/l	I
103-65-1	n-Propylbenzene	0.47	1.0	0.25	ug/l	I
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.1	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.80	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	1.4	2.0	0.78	ug/l	I
95-47-6	o-Xylene	1.3	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F65918-2	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	97%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

(a) Sample was treated with an anti-foaming agent.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F65918-2	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE062549.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.60	1.9	0.48	ug/l	I
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		43-121%
92-94-4	p-Terphenyl	58%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
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L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-93S		
Lab Sample ID:	F65918-2	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87463.D	1	06/16/09	SL	06/12/09	OP29271	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	41%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98D		
Lab Sample ID:	F65918-3	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035609.D	1	06/15/09	MM	n/a	n/a	VM1453
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	28.4	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98D		
Lab Sample ID:	F65918-3	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.49	1.0	0.43	ug/l	I
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	2.4	5.0	1.0	ug/l	I
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.7	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.57	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	1.6	2.0	0.78	ug/l	I
95-47-6	o-Xylene	3.1	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98D		
Lab Sample ID:	F65918-3	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	101%		84-120%

U = Not detected MDL - Method Detection Limit
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L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98D		
Lab Sample ID:	F65918-3	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE062550.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.97	1.9	0.96	ug/l	I
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		43-121%
92-94-4	p-Terphenyl	69%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-98D		
Lab Sample ID:	F65918-3	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LL26503.D	1	06/17/09	SL	06/12/09	OP29271	GLL1004
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		38-122%

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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-13R		
Lab Sample ID:	F65918-4	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035610.D	1	06/15/09	MM	n/a	n/a	VM1453
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-13R		
Lab Sample ID:	F65918-4	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-13R		
Lab Sample ID:	F65918-4	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-13R		
Lab Sample ID:	F65918-4	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE062551.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		43-121%
92-94-4	p-Terphenyl	64%		30-122%

U = Not detected MDL - Method Detection Limit
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L = Indicates value exceeds calibration range

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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-13R		
Lab Sample ID:	F65918-4	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87465.D	1	06/16/09	SL	06/12/09	OP29271	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F65918-5	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035611.D	1	06/15/09	MM	n/a	n/a	VM1453
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	24.6	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.38	1.0	0.34	ug/l	I
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F65918-5	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.53	1.0	0.43	ug/l	I
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.28	1.0	0.20	ug/l	I
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2.2	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.69	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	4.6	2.0	0.78	ug/l	
95-47-6	o-Xylene	7.6	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F65918-5	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	98%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F65918-5	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE062552.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		43-121%
92-94-4	p-Terphenyl	75%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-50I		
Lab Sample ID:	F65918-5	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87466.D	1	06/16/09	SL	06/12/09	OP29271	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.245	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F65918-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035612.D	1	06/15/09	MM	n/a	n/a	VM1453
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	1.0	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F65918-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.30	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	1.1	2.0	0.78	ug/l	I
95-47-6	o-Xylene	0.86	1.0	0.37	ug/l	I

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F65918-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	103%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F65918-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE062555.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		43-121%
92-94-4	p-Terphenyl	86%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F65918-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87467.D	1	06/16/09	SL	06/12/09	OP29271	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.199	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-49S		
Lab Sample ID:	F65918-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	12.9	2.0	1.0	mg/l	1	06/20/09 09:21	LE	SM20 5310B, 9060M
Sulfate	2430	100	50	mg/l	50	06/17/09 16:33	CC	EPA 300/SW846 9056
Sulfide	0.60 U	1.0	0.60	mg/l	1	06/17/09	CC	SM20 4500S F
Total Carbon	29.0	1.0	0.50	mg/l	1	06/20/09 09:21	LE	SM19 5310B/SW 9060A
Total Organic Carbon	16.1	1.0	0.50	mg/l	1	06/14/09 05:48	LE	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F65918-7	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035613.D	1	06/15/09	MM	n/a	n/a	VM1453
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F65918-7	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F65918-7	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	104%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F65918-7	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE062556.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		43-121%
92-94-4	p-Terphenyl	89%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F65918-7	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87470.D	1	06/16/09	SL	06/12/09	OP29271	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.245	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-99D		
Lab Sample ID:	F65918-7	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	56.8	2.0	1.0	mg/l	1	06/20/09 09:29	LE	SM20 5310B, 9060M
Sulfate	1250	100	50	mg/l	50	06/17/09 16:52	CC	EPA 300/SW846 9056
Sulfide	0.60 U	1.0	0.60	mg/l	1	06/17/09	CC	SM20 4500S F
Total Carbon	71.6	1.0	0.50	mg/l	1	06/20/09 09:29	LE	SM19 5310B/SW 9060A
Total Organic Carbon	14.8	1.0	0.50	mg/l	1	06/14/09 06:33	LE	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F65918-8	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035614.D	1	06/15/09	MM	n/a	n/a	VM1453
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	21.3	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	24.8	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F65918-8	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.22	1.0	0.20	ug/l	I
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	4.1	5.0	2.0	ug/l	I
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	2.2	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.31	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.89	1.0	0.37	ug/l	I

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F65918-8	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		87-116%
17060-07-0	1,2-Dichloroethane-D4	100%		76-127%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F65918-8	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE062557.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		43-121%
92-94-4	p-Terphenyl	88%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F65918-8	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87471.D	1	06/16/09	SL	06/12/09	OP29271	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	59%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-116D		
Lab Sample ID:	F65918-8	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	14.5	2.0	1.0	mg/l	1	06/20/09 09:42	LE	SM20 5310B, 9060M
Sulfate	13800	600	300	mg/l	300	06/17/09 17:11	CC	EPA 300/SW846 9056
Sulfide	0.60 U	1.0	0.60	mg/l	1	06/17/09	CC	SM20 4500S F
Total Carbon	60.1	1.0	0.50	mg/l	1	06/20/09 09:42	LE	SM19 5310B/SW 9060A
Total Organic Carbon	45.6	1.0	0.50	mg/l	1	06/14/09 06:49	LE	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F65918-9	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035624.D	1	06/16/09	MM	n/a	n/a	VM1453
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.97	1.0	0.25	ug/l	I
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.47	2.0	0.40	ug/l	I
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F65918-9	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.80	1.0	0.43	ug/l	I
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	2.6	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	2.1	5.0	1.0	ug/l	I
103-65-1	n-Propylbenzene	3.0	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	24.6	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	9.1	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F65918-9	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	97%		76-127%
2037-26-5	Toluene-D8	102%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F65918-9	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE062558.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	1.0	1.9	0.95	ug/l	I
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	1.9 U	1.9	1.9	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		43-121%
92-94-4	p-Terphenyl	80%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F65918-9	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87472.D	1	06/16/09	SL	06/12/09	OP29271	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.316	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-117D		
Lab Sample ID:	F65918-9	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/11/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	8.9	2.0	1.0	mg/l	1	06/20/09 09:51	LE	SM20 5310B, 9060M
Sulfate	2.8	2.0	1.0	mg/l	1	06/12/09 10:53	CC	EPA 300/SW846 9056
Sulfide	0.68 I	1.0	0.60	mg/l	1	06/17/09	CC	SM20 4500S F
Total Carbon	11.0	1.0	0.50	mg/l	1	06/20/09 09:51	LE	SM19 5310B/SW 9060A
Total Organic Carbon	2.1	1.0	0.50	mg/l	1	06/14/09 07:08	LE	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-TB1		
Lab Sample ID:	F65918-10	**Date Sampled:**	06/10/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035615.D	1	06/15/09	MM	n/a	n/a	VM1453
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-TB1		
Lab Sample ID:	F65918-10	**Date Sampled:**	06/10/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-TB1		
Lab Sample ID:	F65918-10	**Date Sampled:**	06/10/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/11/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		87-116%
17060-07-0	1,2-Dichloroethane-D4	99%		76-127%
2037-26-5	Toluene-D8	98%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F65918 PAGE 1 OF 1

Accutest Quote #

SKIFF# 30466

Client / Reporting Information

Company Name: Solutions - IES
Address: 1101 Nowell Rd
City: Raleigh State: NC Zip: 27607
Project Contact: Brian Rebar E-mail: brebar@solutions-ies.com
Phone#: (919) 873-1060
Sampler(s) Name(s) (Printed): JC, TF, JB, BC

Project Information

Project Name: Cecil Field - North Fuel Farm
Street
City State
Project #: 8030.08A2.NAVF
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	COLLECTION DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	CONTAINER INFORMATION NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZNAC	DI WATER	MEOH	VOCs 8260B	PAH 8310	TRPH FL PRO	Sulfide 376.2	Sulfate 300.0	TOC 415.1	TIC 415.2					LAB USE ONLY
1	CEF-076-94S	6/10/09	1140	TF	GW	7		2	3			2				X	X	X									
2	CEF-076-93S		1020	BC	GW	7		2	3			2				X	X	X									
3	CEF-076-98D		1310	JB	GW	7		2	3			2				X	X	X									
4	CEF-076-13R		1150	JB	GW	7		2	3			2				X	X	X									
5	CEF-076-50I		1252	BC	GW	7		2	3			2				X	X	X									
6	CEF-076-44S		1153	BC	GW	15		5	5			2	3			X	X	X	X	X	X	X					
7	CEF-076-99D		1321	TF	GW	15		5	5			2	3			X	X	X	X	X	X	X					
8	CEF-076-116D		1315	JC	GW	15		5	5			2	3			X	X	X	X	X	X	X					
9	CEF-076-117D		1220	JC	GW	15		5	5			2	3			X	X	X	X	X	X	X					
10	CEF-076-TB1								2							X											

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 [signature]	6/10/09 1715	2 [signature] (ABE) 6/10/09 17:15	3 [signature] (ABE) 6/10/09		4 [signature] 6.11.09 0820
Relinquished by:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
5		6	7		8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: Cooler Temperature (s) Celsius: 2.4 2.0 1.4 1.6 2.0

4.1
4

F65918: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F65918 CLIENT: Solutions-IES PROJECT: Cecil Field

DATE/TIME RECEIVED: 6.11.09 0830 # OF COOLERS RECEIVED: 5 COOLER TEMPS: 2.4 2.0 1.4 2.0 3.6

METHOD OF DELIVERY: FEDEX UPS (ACCUTEST COURIER) GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE RECEIVED IN COOLER

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [x] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

NUMBER OF LAB FILTERED METALS ? Ø

SUMMARY OF COMMENTS: Samp 2 recieved 1 vial half-full, Samp 4 only recieved 2 vials (1 is half-full)

TECHNICIAN SIGNATURE/DATE E.T. 6.11.09 TECHNICIAN SIGNATURE/DATE CB 6/11/09

ASBD 12/17/07

4.1

4

F65918: Chain of Custody

Page 2 of 2

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/07/09

Technical Report for

Solutions-IES, Inc

Cecil Field North Fuel Farm; Jacksonville, FL

8030.08A2.NAVF

Accutest Job Number: F65955

Sampling Date: 06/10/09

Report to:

Solutions-IES, Inc

jdehart@solutions-ies.com

ATTN: Jessica Dehart

Total number of pages in report: **51**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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Accutest LabLink@91503 15:06 07-Jul-2009

Sample Summary

Solutions-IES, Inc

Job No: F65955

Cecil Field North Fuel Farm; Jacksonville, FL
Project No: 8030.08A2.NAVF

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
F65955-1	06/10/09	17:10	JB	06/12/09	AQ	Ground Water	CEF-076-100D
F65955-2	06/10/09	17:05	JB	06/12/09	AQ	Ground Water	CEF-076-61I
F65955-3	06/10/09	17:54	JB	06/12/09	AQ	Ground Water	CEF-076-95S
F65955-4	06/10/09	18:05	JB	06/12/09	AQ	Ground Water	CEF-076-113S
F65955-5	06/10/09	18:13	JB	06/12/09	AQ	Ground Water	CEF-076-70I
F65955-6	06/10/09	17:14	JB	06/12/09	AQ	Ground Water	CEF-076-57S
F65955-7	06/10/09	00:00	JB	06/12/09	AQ	Trip Blank Water	CEF-076-TB2
F65955-8	06/10/09	18:55	JB	06/12/09	AQ	Ground Water	CEF-076-110D

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Solutions-IES, Inc **Job No:** F65955

Site: Cecil Field North Fuel Farm; Jacksonville, FL **Report Date** 6/23/2009 1:26:36 PM

7 Samples, 1 Trip Blank were collected on 06/10/2009 and received at Accutest on 06/12/2009 properly preserved, at 4.2 Deg. C and intact. These Samples received an Accutest job number of F65955. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VM1456

All samples were analyzed within the recommended method holding time.

Sample(s) F65856-14MS, F65856-14MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

BS/MS/MSD Recovery(s) for Acetone are outside control limits.

Matrix Spike Recovery(s) for 2-Chloroethyl vinyl ether, n-Propylbenzene, p-Dichlorobenzene are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Chloroethyl vinyl ether, Bromobenzene, n-Propylbenzene, o-Dichlorobenzene, p-Dichlorobenzene are outside control limits. Probable cause due to matrix interference. For method performance in clean matrix refer to Blank Spike

RPD(s) for MSD for Acetone are outside control limits for sample F65856-14MSD. Probable cause due to sample homogeneity.

Extractables by GC By Method FLORIDA-PRO

Matrix: AQ **Batch ID:** OP29283

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F65955-3MS, F65955-3MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8310

Matrix: AQ **Batch ID:** OP29284

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

Sample(s) F65913-10MS, F65913-10MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

F65955-2: All hits confirmed by spectral match using a diode array detector.

F65955-4: All hits confirmed by spectral match using a diode array detector.

Matrix: AQ **Batch ID:** OP29295

All samples were extracted within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F65990-7MS, F65990-7MSD were used as the QC samples indicated.

F65955-5: All hits confirmed by spectral match using a diode array detector.

F65955-8: All hits confirmed by spectral match using a diode array detector.

Wet Chemistry By Method EPA 300/SW846 9056

Matrix: AQ **Batch ID:** GP13104

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F65918-9DUP, F65918-9MS were used as the QC samples for Sulfate.

Matrix Spike Recovery(s) for Sulfate are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method SM19 5310B/SW 9060A

Matrix: AQ **Batch ID:** GP13119

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F65708-1DUP, F65708-1MS were used as the QC samples for Total Organic Carbon.

Matrix Spike Recovery(s) for Total Organic Carbon are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Matrix: AQ **Batch ID:** GP13135

All samples were prepared within the recommended method holding time.

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F65955-1DUP, F65955-1MS were used as the QC samples for Total Carbon.

Matrix Spike Recovery(s) for Total Carbon are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

Wet Chemistry By Method SM20 4500S F

Matrix: AQ **Batch ID:** GN35473

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) F65934-1DUP, F65934-1MS were used as the QC samples for Sulfide.

Matrix Spike Recovery(s) for Sulfide are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

RPD(s) for Duplicate for Sulfide are outside control limits for sample GN35473-D1. RPD acceptable due to low duplicate and sample concentrations.

Wet Chemistry By Method SM20 5310B, 9060M

Matrix: AQ **Batch ID:** R21495

F65955-1 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21496

F65955-2 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21497

F65955-3 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Matrix: AQ **Batch ID:** R21498

F65955-6 for Inorganic Carbon: Calculated as: Total Carbon - Total Organic Carbon

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

Date: June 23, 2009

Svetlana Izosimova, QA Officer (signature on file)

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F65955-1	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035693.D	1	06/18/09	MM	n/a	n/a	VM1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.47	1.0	0.40	ug/l	I
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F65955-1	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F65955-1	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F65955-1	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE062567.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		43-121%
92-94-4	p-Terphenyl	88%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F65955-1	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87491.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-100D		
Lab Sample ID:	F65955-1	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	38.2	2.0	1.0	mg/l	1	06/20/09 08:15	LE	SM20 5310B, 9060M
Sulfate	2660	200	100	mg/l	100	06/17/09 19:24	CC	EPA 300/SW846 9056
Sulfide	0.60 U	1.0	0.60	mg/l	1	06/17/09	CC	SM20 4500S F
Total Carbon	47.2	1.0	0.50	mg/l	1	06/20/09 08:15	LE	SM19 5310B/SW 9060A
Total Organic Carbon	9.0	1.0	0.50	mg/l	1	06/17/09 16:06	LE	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F65955-2	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035694.D	1	06/18/09	MM	n/a	n/a	VM1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	6.9	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.29	1.0	0.25	ug/l	I
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F65955-2	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	1.3	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	1.4	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	12.8	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	1.5	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	14.6	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	5.4	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	2.9	2.0	0.78	ug/l	
95-47-6	o-Xylene	3.2	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F65955-2	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	95%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F65955-2	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE062568.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	4.2	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.71	1.9	0.48	ug/l	I
91-57-6	2-Methylnaphthalene	1.0	1.9	0.48	ug/l	I
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		43-121%
92-94-4	p-Terphenyl	76%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F65955-2	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87494.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.342	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	57%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-61I		
Lab Sample ID:	F65955-2	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	18.8	2.0	1.0	mg/l	1	06/20/09 08:25	LE	SM20 5310B, 9060M
Sulfate	7510	400	200	mg/l	200	06/17/09 19:43	CC	EPA 300/SW846 9056
Sulfide	0.60 U	1.0	0.60	mg/l	1	06/17/09	CC	SM20 4500S F
Total Carbon	62.2	1.0	0.50	mg/l	1	06/20/09 08:25	LE	SM19 5310B/SW 9060A
Total Organic Carbon	43.4	1.0	0.50	mg/l	1	06/17/09 16:22	LE	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F65955-3	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035695.D	1	06/18/09	MM	n/a	n/a	VM1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F65955-3	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	7.3	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	4.4	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F65955-3	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F65955-3	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE062569.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.96 U	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		43-121%
92-94-4	p-Terphenyl	81%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F65955-3	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87495.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-95S		
Lab Sample ID:	F65955-3	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	20.2	2.0	1.0	mg/l	1	06/20/09 08:34	LE	SM20 5310B, 9060M
Sulfate	9.0	2.0	1.0	mg/l	1	06/12/09 18:35	CC	EPA 300/SW846 9056
Sulfide	0.60 U	1.0	0.60	mg/l	1	06/17/09	CC	SM20 4500S F
Total Carbon	26.5	1.0	0.50	mg/l	1	06/20/09 08:34	LE	SM19 5310B/SW 9060A
Total Organic Carbon	6.3	1.0	0.50	mg/l	1	06/17/09 16:41	LE	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F65955-4	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035703.D	200	06/18/09	MM	n/a	n/a	VM1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	2000 U	5000	2000	ug/l	
107-02-8	Acrolein	1000 U	4000	1000	ug/l	
107-13-1	Acrylonitrile	400 U	2000	400	ug/l	
71-43-2	Benzene	9120	200	80	ug/l	
108-86-1	Bromobenzene	52 U	200	52	ug/l	
74-97-5	Bromochloromethane	46 U	200	46	ug/l	
75-27-4	Bromodichloromethane	40 U	200	40	ug/l	
75-25-2	Bromoform	66 U	200	66	ug/l	
104-51-8	n-Butylbenzene	56 U	200	56	ug/l	
135-98-8	sec-Butylbenzene	50 U	200	50	ug/l	
98-06-6	tert-Butylbenzene	64 U	200	64	ug/l	
108-90-7	Chlorobenzene	44 U	200	44	ug/l	
75-00-3	Chloroethane	96 U	400	96	ug/l	
67-66-3	Chloroform	56 U	200	56	ug/l	
95-49-8	o-Chlorotoluene	50 U	200	50	ug/l	
106-43-4	p-Chlorotoluene	42 U	200	42	ug/l	
110-75-8	2-Chloroethyl vinyl ether	200 U	1000	200	ug/l	
75-15-0	Carbon disulfide	80 U	400	80	ug/l	
56-23-5	Carbon tetrachloride	44 U	200	44	ug/l	
75-34-3	1,1-Dichloroethane	48 U	200	48	ug/l	
75-35-4	1,1-Dichloroethylene	110 U	200	110	ug/l	
563-58-6	1,1-Dichloropropene	46 U	200	46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	64 U	400	64	ug/l	
106-93-4	1,2-Dibromoethane	56 U	200	56	ug/l	
107-06-2	1,2-Dichloroethane	68 U	200	68	ug/l	
78-87-5	1,2-Dichloropropane	42 U	200	42	ug/l	
142-28-9	1,3-Dichloropropane	52 U	200	52	ug/l	
594-20-7	2,2-Dichloropropane	56 U	200	56	ug/l	
124-48-1	Dibromochloromethane	40 U	200	40	ug/l	
75-71-8	Dichlorodifluoromethane	200 U	400	200	ug/l	
156-59-2	cis-1,2-Dichloroethylene	40 U	200	40	ug/l	
10061-01-5	cis-1,3-Dichloropropene	42 U	200	42	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F65955-4	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	46 U	200	46	ug/l	
95-50-1	o-Dichlorobenzene	40 U	200	40	ug/l	
106-46-7	p-Dichlorobenzene	44 U	200	44	ug/l	
156-60-5	trans-1,2-Dichloroethylene	90 U	200	90	ug/l	
10061-02-6	trans-1,3-Dichloropropene	42 U	200	42	ug/l	
100-41-4	Ethylbenzene	459	200	86	ug/l	
591-78-6	2-Hexanone	1000 U	2000	1000	ug/l	
87-68-3	Hexachlorobutadiene	140 U	400	140	ug/l	
98-82-8	Isopropylbenzene	54.0	200	40	ug/l	I
99-87-6	p-Isopropyltoluene	64 U	200	64	ug/l	
108-10-1	4-Methyl-2-pentanone	400 U	1000	400	ug/l	
74-83-9	Methyl bromide	160 U	400	160	ug/l	
74-87-3	Methyl chloride	120 U	400	120	ug/l	
74-95-3	Methylene bromide	60 U	400	60	ug/l	
75-09-2	Methylene chloride	200 U	1000	200	ug/l	
78-93-3	Methyl ethyl ketone	400 U	1000	400	ug/l	
1634-04-4	Methyl Tert Butyl Ether	52 U	200	52	ug/l	
91-20-3	Naphthalene	200 U	1000	200	ug/l	
103-65-1	n-Propylbenzene	50.4	200	50	ug/l	I
100-42-5	Styrene	72 U	200	72	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	40 U	200	40	ug/l	
71-55-6	1,1,1-Trichloroethane	66 U	200	66	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	42 U	200	42	ug/l	
79-00-5	1,1,2-Trichloroethane	52 U	200	52	ug/l	
87-61-6	1,2,3-Trichlorobenzene	100 U	200	100	ug/l	
96-18-4	1,2,3-Trichloropropane	68 U	400	68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	100 U	200	100	ug/l	
95-63-6	1,2,4-Trimethylbenzene	230	400	44	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	83.3	400	40	ug/l	I
127-18-4	Tetrachloroethylene	44 U	200	44	ug/l	
108-88-3	Toluene	70 U	200	70	ug/l	
79-01-6	Trichloroethylene	64 U	200	64	ug/l	
75-69-4	Trichlorofluoromethane	100 U	400	100	ug/l	
75-01-4	Vinyl chloride	60 U	200	60	ug/l	
108-05-4	Vinyl Acetate	720 U	2000	720	ug/l	
	m,p-Xylene	623	400	160	ug/l	
95-47-6	o-Xylene	512	200	74	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F65955-4	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	93%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F65955-4	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE062570.D	1	06/15/09	FEA	06/13/09	OP29284	GEE2268
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	39.2	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	2.0	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	9.5	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		43-121%
92-94-4	p-Terphenyl	89%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-113S		
Lab Sample ID:	F65955-4	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87498.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	1.65	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F65955-5	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035704.D	5	06/18/09	MM	n/a	n/a	VM1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	50 U	130	50	ug/l	
107-02-8	Acrolein	25 U	100	25	ug/l	
107-13-1	Acrylonitrile	10 U	50	10	ug/l	
71-43-2	Benzene	179	5.0	2.0	ug/l	
108-86-1	Bromobenzene	1.3 U	5.0	1.3	ug/l	
74-97-5	Bromochloromethane	1.2 U	5.0	1.2	ug/l	
75-27-4	Bromodichloromethane	1.0 U	5.0	1.0	ug/l	
75-25-2	Bromoform	1.7 U	5.0	1.7	ug/l	
104-51-8	n-Butylbenzene	1.4 U	5.0	1.4	ug/l	
135-98-8	sec-Butylbenzene	1.3 U	5.0	1.3	ug/l	
98-06-6	tert-Butylbenzene	1.6 U	5.0	1.6	ug/l	
108-90-7	Chlorobenzene	1.1 U	5.0	1.1	ug/l	
75-00-3	Chloroethane	2.4 U	10	2.4	ug/l	
67-66-3	Chloroform	1.4 U	5.0	1.4	ug/l	
95-49-8	o-Chlorotoluene	1.3 U	5.0	1.3	ug/l	
106-43-4	p-Chlorotoluene	1.1 U	5.0	1.1	ug/l	
110-75-8	2-Chloroethyl vinyl ether	5.0 U	25	5.0	ug/l	
75-15-0	Carbon disulfide	2.0 U	10	2.0	ug/l	
56-23-5	Carbon tetrachloride	1.1 U	5.0	1.1	ug/l	
75-34-3	1,1-Dichloroethane	1.2 U	5.0	1.2	ug/l	
75-35-4	1,1-Dichloroethylene	2.7 U	5.0	2.7	ug/l	
563-58-6	1,1-Dichloropropene	1.2 U	5.0	1.2	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	1.6 U	10	1.6	ug/l	
106-93-4	1,2-Dibromoethane	1.4 U	5.0	1.4	ug/l	
107-06-2	1,2-Dichloroethane	1.7 U	5.0	1.7	ug/l	
78-87-5	1,2-Dichloropropane	1.1 U	5.0	1.1	ug/l	
142-28-9	1,3-Dichloropropane	1.3 U	5.0	1.3	ug/l	
594-20-7	2,2-Dichloropropane	1.4 U	5.0	1.4	ug/l	
124-48-1	Dibromochloromethane	1.0 U	5.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	5.0 U	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	1.0 U	5.0	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	1.1 U	5.0	1.1	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F65955-5	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	1.2 U	5.0	1.2	ug/l	
95-50-1	o-Dichlorobenzene	1.0 U	5.0	1.0	ug/l	
106-46-7	p-Dichlorobenzene	1.1 U	5.0	1.1	ug/l	
156-60-5	trans-1,2-Dichloroethylene	2.3 U	5.0	2.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	1.1 U	5.0	1.1	ug/l	
100-41-4	Ethylbenzene	9.7	5.0	2.2	ug/l	
591-78-6	2-Hexanone	25 U	50	25	ug/l	
87-68-3	Hexachlorobutadiene	3.5 U	10	3.5	ug/l	
98-82-8	Isopropylbenzene	15.6	5.0	1.0	ug/l	
99-87-6	p-Isopropyltoluene	1.6 U	5.0	1.6	ug/l	
108-10-1	4-Methyl-2-pentanone	10 U	25	10	ug/l	
74-83-9	Methyl bromide	3.9 U	10	3.9	ug/l	
74-87-3	Methyl chloride	3.1 U	10	3.1	ug/l	
74-95-3	Methylene bromide	1.5 U	10	1.5	ug/l	
75-09-2	Methylene chloride	5.0 U	25	5.0	ug/l	
78-93-3	Methyl ethyl ketone	10 U	25	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.3 U	5.0	1.3	ug/l	
91-20-3	Naphthalene	20.5	25	5.0	ug/l	I
103-65-1	n-Propylbenzene	14.4	5.0	1.3	ug/l	
100-42-5	Styrene	1.8 U	5.0	1.8	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U	5.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	1.7 U	5.0	1.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	1.1 U	5.0	1.1	ug/l	
79-00-5	1,1,2-Trichloroethane	1.3 U	5.0	1.3	ug/l	
87-61-6	1,2,3-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
96-18-4	1,2,3-Trichloropropane	1.7 U	10	1.7	ug/l	
120-82-1	1,2,4-Trichlorobenzene	2.5 U	5.0	2.5	ug/l	
95-63-6	1,2,4-Trimethylbenzene	90.6	10	1.1	ug/l	
108-67-8	1,3,5-Trimethylbenzene	30.7	10	1.0	ug/l	
127-18-4	Tetrachloroethylene	1.1 U	5.0	1.1	ug/l	
108-88-3	Toluene	1.8 U	5.0	1.8	ug/l	
79-01-6	Trichloroethylene	1.6 U	5.0	1.6	ug/l	
75-69-4	Trichlorofluoromethane	2.5 U	10	2.5	ug/l	
75-01-4	Vinyl chloride	1.5 U	5.0	1.5	ug/l	
108-05-4	Vinyl Acetate	18 U	50	18	ug/l	
	m,p-Xylene	79.6	10	3.9	ug/l	
95-47-6	o-Xylene	67.9	5.0	1.9	ug/l	

U = Not detected MDL - Method Detection Limit
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L = Indicates value exceeds calibration range

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V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F65955-5	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		87-116%
17060-07-0	1,2-Dichloroethane-D4	92%		76-127%
2037-26-5	Toluene-D8	105%		86-112%
460-00-4	4-Bromofluorobenzene	106%		84-120%

U = Not detected MDL - Method Detection Limit
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F65955-5	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE062580.D	1	06/16/09	MRE	06/15/09	OP29295	GEE2269
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	12.1	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	1.9 U	1.9	1.9	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		43-121%
92-94-4	p-Terphenyl	80%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-70I		
Lab Sample ID:	F65955-5	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87499.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.458	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F65955-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035696.D	1	06/18/09	MM	n/a	n/a	VM1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	3.3	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F65955-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	1.6	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.48	1.0	0.20	ug/l	I
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.4	2.0	0.22	ug/l	I
108-67-8	1,3,5-Trimethylbenzene	0.69	2.0	0.20	ug/l	I
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	3.3	2.0	0.78	ug/l	
95-47-6	o-Xylene	2.5	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
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L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F65955-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	105%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F65955-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE062581.D	1	06/16/09	MRE	06/15/09	OP29295	GEE2269
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.95 U	1.9	0.95	ug/l	
208-96-8	Acenaphthylene	0.95 U	1.9	0.95	ug/l	
120-12-7	Anthracene	0.95 U	1.9	0.95	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.095 U	0.19	0.095	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.95 U	1.9	0.95	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	0.95 U	1.9	0.95	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.95 U	1.9	0.95	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		43-121%
92-94-4	p-Terphenyl	83%		30-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F65955-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87500.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.16 U	0.24	0.16	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-57S		
Lab Sample ID:	F65955-6	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
		Percent Solids:	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Inorganic Carbon [a]	2.7	2.0	1.0	mg/l	1	06/20/09 08:41	LE	SM20 5310B, 9060M
Sulfate	1480	100	50	mg/l	50	06/17/09 20:02	CC	EPA 300/SW846 9056
Sulfide	0.60 U	1.0	0.60	mg/l	1	06/17/09	CC	SM20 4500S F
Total Carbon	14.5	1.0	0.50	mg/l	1	06/20/09 08:41	LE	SM19 5310B/SW 9060A
Total Organic Carbon	11.8	1.0	0.50	mg/l	1	06/17/09 16:56	LE	SM19 5310B/SW 9060A

(a) Calculated as: Total Carbon - Total Organic Carbon

RL = Reporting Limit = PQL
MDL = Method Detection Limit

U = Indicates a result < MDL
I = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CEF-076-TB2		
Lab Sample ID:	F65955-7	**Date Sampled:**	06/10/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035697.D	1	06/18/09	MM	n/a	n/a	VM1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	10 U	25	10	ug/l	
107-02-8	Acrolein	5.0 U	20	5.0	ug/l	
107-13-1	Acrylonitrile	2.0 U	10	2.0	ug/l	
71-43-2	Benzene	0.40 U	1.0	0.40	ug/l	
108-86-1	Bromobenzene	0.26 U	1.0	0.26	ug/l	
74-97-5	Bromochloromethane	0.23 U	1.0	0.23	ug/l	
75-27-4	Bromodichloromethane	0.20 U	1.0	0.20	ug/l	
75-25-2	Bromoform	0.33 U	1.0	0.33	ug/l	
104-51-8	n-Butylbenzene	0.28 U	1.0	0.28	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.32 U	1.0	0.32	ug/l	
108-90-7	Chlorobenzene	0.22 U	1.0	0.22	ug/l	
75-00-3	Chloroethane	0.48 U	2.0	0.48	ug/l	
67-66-3	Chloroform	0.28 U	1.0	0.28	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	1.0	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.21 U	1.0	0.21	ug/l	
110-75-8	2-Chloroethyl vinyl ether	1.0 U	5.0	1.0	ug/l	
75-15-0	Carbon disulfide	0.40 U	2.0	0.40	ug/l	
56-23-5	Carbon tetrachloride	0.22 U	1.0	0.22	ug/l	
75-34-3	1,1-Dichloroethane	0.24 U	1.0	0.24	ug/l	
75-35-4	1,1-Dichloroethylene	0.54 U	1.0	0.54	ug/l	
563-58-6	1,1-Dichloropropene	0.23 U	1.0	0.23	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.32 U	2.0	0.32	ug/l	
106-93-4	1,2-Dibromoethane	0.28 U	1.0	0.28	ug/l	
107-06-2	1,2-Dichloroethane	0.34 U	1.0	0.34	ug/l	
78-87-5	1,2-Dichloropropane	0.21 U	1.0	0.21	ug/l	
142-28-9	1,3-Dichloropropane	0.26 U	1.0	0.26	ug/l	
594-20-7	2,2-Dichloropropane	0.28 U	1.0	0.28	ug/l	
124-48-1	Dibromochloromethane	0.20 U	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	1.0 U	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.20 U	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-TB2		
Lab Sample ID:	F65955-7	**Date Sampled:**	06/10/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.23 U	1.0	0.23	ug/l	
95-50-1	o-Dichlorobenzene	0.20 U	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	0.22 U	1.0	0.22	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.45 U	1.0	0.45	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.21 U	1.0	0.21	ug/l	
100-41-4	Ethylbenzene	0.43 U	1.0	0.43	ug/l	
591-78-6	2-Hexanone	5.0 U	10	5.0	ug/l	
87-68-3	Hexachlorobutadiene	0.69 U	2.0	0.69	ug/l	
98-82-8	Isopropylbenzene	0.20 U	1.0	0.20	ug/l	
99-87-6	p-Isopropyltoluene	0.32 U	1.0	0.32	ug/l	
108-10-1	4-Methyl-2-pentanone	2.0 U	5.0	2.0	ug/l	
74-83-9	Methyl bromide	0.78 U	2.0	0.78	ug/l	
74-87-3	Methyl chloride	0.61 U	2.0	0.61	ug/l	
74-95-3	Methylene bromide	0.30 U	2.0	0.30	ug/l	
75-09-2	Methylene chloride	1.0 U	5.0	1.0	ug/l	
78-93-3	Methyl ethyl ketone	2.0 U	5.0	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.26 U	1.0	0.26	ug/l	
91-20-3	Naphthalene	1.0 U	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	0.25 U	1.0	0.25	ug/l	
100-42-5	Styrene	0.36 U	1.0	0.36	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.20 U	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	0.33 U	1.0	0.33	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.21 U	1.0	0.21	ug/l	
79-00-5	1,1,2-Trichloroethane	0.26 U	1.0	0.26	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	0.34 U	2.0	0.34	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.50 U	1.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.22 U	2.0	0.22	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.20 U	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.22 U	1.0	0.22	ug/l	
108-88-3	Toluene	0.35 U	1.0	0.35	ug/l	
79-01-6	Trichloroethylene	0.32 U	1.0	0.32	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	2.0	0.50	ug/l	
75-01-4	Vinyl chloride	0.30 U	1.0	0.30	ug/l	
108-05-4	Vinyl Acetate	3.6 U	10	3.6	ug/l	
	m,p-Xylene	0.78 U	2.0	0.78	ug/l	
95-47-6	o-Xylene	0.37 U	1.0	0.37	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-TB2		
Lab Sample ID:	F65955-7	**Date Sampled:**	06/10/09
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	104%		86-112%
460-00-4	4-Bromofluorobenzene	107%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F65955-8	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M0035705.D	2	06/18/09	MM	n/a	n/a	VM1456
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	20 U	50	20	ug/l	
107-02-8	Acrolein	10 U	40	10	ug/l	
107-13-1	Acrylonitrile	4.0 U	20	4.0	ug/l	
71-43-2	Benzene	130	2.0	0.80	ug/l	
108-86-1	Bromobenzene	0.52 U	2.0	0.52	ug/l	
74-97-5	Bromochloromethane	0.46 U	2.0	0.46	ug/l	
75-27-4	Bromodichloromethane	0.40 U	2.0	0.40	ug/l	
75-25-2	Bromoform	0.66 U	2.0	0.66	ug/l	
104-51-8	n-Butylbenzene	0.56 U	2.0	0.56	ug/l	
135-98-8	sec-Butylbenzene	0.50 U	2.0	0.50	ug/l	
98-06-6	tert-Butylbenzene	0.64 U	2.0	0.64	ug/l	
108-90-7	Chlorobenzene	0.44 U	2.0	0.44	ug/l	
75-00-3	Chloroethane	0.96 U	4.0	0.96	ug/l	
67-66-3	Chloroform	0.56 U	2.0	0.56	ug/l	
95-49-8	o-Chlorotoluene	0.50 U	2.0	0.50	ug/l	
106-43-4	p-Chlorotoluene	0.42 U	2.0	0.42	ug/l	
110-75-8	2-Chloroethyl vinyl ether	2.0 U	10	2.0	ug/l	
75-15-0	Carbon disulfide	0.80 U	4.0	0.80	ug/l	
56-23-5	Carbon tetrachloride	0.44 U	2.0	0.44	ug/l	
75-34-3	1,1-Dichloroethane	0.48 U	2.0	0.48	ug/l	
75-35-4	1,1-Dichloroethylene	1.1 U	2.0	1.1	ug/l	
563-58-6	1,1-Dichloropropene	0.46 U	2.0	0.46	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.64 U	4.0	0.64	ug/l	
106-93-4	1,2-Dibromoethane	0.56 U	2.0	0.56	ug/l	
107-06-2	1,2-Dichloroethane	0.68 U	2.0	0.68	ug/l	
78-87-5	1,2-Dichloropropane	0.42 U	2.0	0.42	ug/l	
142-28-9	1,3-Dichloropropane	0.52 U	2.0	0.52	ug/l	
594-20-7	2,2-Dichloropropane	0.56 U	2.0	0.56	ug/l	
124-48-1	Dibromochloromethane	0.40 U	2.0	0.40	ug/l	
75-71-8	Dichlorodifluoromethane	2.0 U	4.0	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.40 U	2.0	0.40	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.42 U	2.0	0.42	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F65955-8	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	0.46 U	2.0	0.46	ug/l	
95-50-1	o-Dichlorobenzene	0.40 U	2.0	0.40	ug/l	
106-46-7	p-Dichlorobenzene	0.44 U	2.0	0.44	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.90 U	2.0	0.90	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.42 U	2.0	0.42	ug/l	
100-41-4	Ethylbenzene	1.4	2.0	0.86	ug/l	I
591-78-6	2-Hexanone	10 U	20	10	ug/l	
87-68-3	Hexachlorobutadiene	1.4 U	4.0	1.4	ug/l	
98-82-8	Isopropylbenzene	0.76	2.0	0.40	ug/l	I
99-87-6	p-Isopropyltoluene	0.64 U	2.0	0.64	ug/l	
108-10-1	4-Methyl-2-pentanone	4.0 U	10	4.0	ug/l	
74-83-9	Methyl bromide	1.6 U	4.0	1.6	ug/l	
74-87-3	Methyl chloride	1.2 U	4.0	1.2	ug/l	
74-95-3	Methylene bromide	0.60 U	4.0	0.60	ug/l	
75-09-2	Methylene chloride	2.0 U	10	2.0	ug/l	
78-93-3	Methyl ethyl ketone	4.0 U	10	4.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.52 U	2.0	0.52	ug/l	
91-20-3	Naphthalene	5.6	10	2.0	ug/l	I
103-65-1	n-Propylbenzene	0.59	2.0	0.50	ug/l	I
100-42-5	Styrene	0.72 U	2.0	0.72	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.40 U	2.0	0.40	ug/l	
71-55-6	1,1,1-Trichloroethane	0.66 U	2.0	0.66	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.42 U	2.0	0.42	ug/l	
79-00-5	1,1,2-Trichloroethane	0.52 U	2.0	0.52	ug/l	
87-61-6	1,2,3-Trichlorobenzene	1.0 U	2.0	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	0.68 U	4.0	0.68	ug/l	
120-82-1	1,2,4-Trichlorobenzene	1.0 U	2.0	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	10.6	4.0	0.44	ug/l	
108-67-8	1,3,5-Trimethylbenzene	3.4	4.0	0.40	ug/l	I
127-18-4	Tetrachloroethylene	0.44 U	2.0	0.44	ug/l	
108-88-3	Toluene	0.70 U	2.0	0.70	ug/l	
79-01-6	Trichloroethylene	0.64 U	2.0	0.64	ug/l	
75-69-4	Trichlorofluoromethane	1.0 U	4.0	1.0	ug/l	
75-01-4	Vinyl chloride	0.60 U	2.0	0.60	ug/l	
108-05-4	Vinyl Acetate	7.2 U	20	7.2	ug/l	
	m,p-Xylene	3.5	4.0	1.6	ug/l	I
95-47-6	o-Xylene	11.6	2.0	0.74	ug/l	

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F65955-8	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		87-116%
17060-07-0	1,2-Dichloroethane-D4	94%		76-127%
2037-26-5	Toluene-D8	106%		86-112%
460-00-4	4-Bromofluorobenzene	108%		84-120%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F65955-8	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	SW846 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE062582.D	1	06/16/09	MRE	06/15/09	OP29295	GEE2269
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.96 U	1.9	0.96	ug/l	
208-96-8	Acenaphthylene	0.96 U	1.9	0.96	ug/l	
120-12-7	Anthracene	0.96 U	1.9	0.96	ug/l	
56-55-3	Benzo(a)anthracene	0.048 U	0.19	0.048	ug/l	
50-32-8	Benzo(a)pyrene	0.048 U	0.19	0.048	ug/l	
205-99-2	Benzo(b)fluoranthene	0.048 U	0.19	0.048	ug/l	
191-24-2	Benzo(g,h,i)perylene	0.096 U	0.19	0.096	ug/l	
207-08-9	Benzo(k)fluoranthene	0.048 U	0.19	0.048	ug/l	
218-01-9	Chrysene	0.48 U	1.9	0.48	ug/l	
53-70-3	Dibenzo(a,h)anthracene	0.048 U	0.19	0.048	ug/l	
206-44-0	Fluoranthene	0.48 U	1.9	0.48	ug/l	
86-73-7	Fluorene	0.96 U	1.9	0.96	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.048 U	0.19	0.048	ug/l	
91-20-3	Naphthalene	4.0	1.9	0.96	ug/l	
90-12-0	1-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
91-57-6	2-Methylnaphthalene	0.48 U	1.9	0.48	ug/l	
85-01-8	Phenanthrene	0.96 U	1.9	0.96	ug/l	
129-00-0	Pyrene	0.48 U	1.9	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		43-121%
92-94-4	p-Terphenyl	75%		30-122%

(a) All hits confirmed by spectral match using a diode array detector.

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CEF-076-110D		
Lab Sample ID:	F65955-8	**Date Sampled:**	06/10/09
Matrix:	AQ - Ground Water	**Date Received:**	06/12/09
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	Cecil Field North Fuel Farm; Jacksonville, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP87501.D	1	06/17/09	SL	06/13/09	OP29283	GOP2269
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C8-C40)	0.183	0.24	0.16	mg/l	I

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		38-122%

U = Not detected MDL - Method Detection Limit
RL = Reporting Limit = PQL
L = Indicates value exceeds calibration range

I = Result > = MDL but < RL J = Estimated value
V = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Accutest Laboratories Southeast
Chain of Custody

ACCUTEST.

4405 Vineland Road, Suite C-15 Orlando, Fl 32811
TEL. 407-425-6700 • FAX: 407-425-0707
www.accutest.com

Accutest JOB # F65955 PAGE 1 OF 1

Accutest Quote #

SKIFF#

Client / Reporting Information

Company Name: Solutions - IES
Address: 1101 Nowell Rd
City: Raleigh State: NC Zip: 27607
Project Contact: Brian Rebar E-mail: brebar@solutions-ies.com
Phone#: (919) 873-1060
Sampler(s) Name(s) (Printed): JC, BC, TF, JB

Project Information

Project Name: Cecil Field - North Fuel Farm
Street
City State
Project #: 8030.08A2. NAVF
Fax #
Client Purchase Order #

Analytical Information

Accutest Sample #	Field ID / Point of Collection	DATE	TIME	SAMPLED BY	MATRIX	TOTAL # OF BOTTLES	OTHER	NONE	HCl	NaOH	HNO3	H2SO4	NaOH+ZnAc	DI WATER	MeOH	VOC 8260B	PAH 8310	TRPH FL PRO	Sulfide 376.2	Sulfate 300.0	TOC 415.1	TIC 415.2					LAB USE ONLY
1	CEF-076-100D	6/10/09	1710	JB	GW	15		5	5			2	3			X	X	X	X	X	X	X					
2	CEF-076-61I		1705	JC	GW	15		5	5			2	3			X	X	X	X	X	X	X					
3	CEF-076-95S		1754	TF	GW	15		5	5			2	3			X	X	X	X	X	X	X					
4	CEF-076-113S		1805	JC	GW	7		2	3			2				X	X	X									
5	CEF-076-70I		1813	BC	GW	7		2	3			2				X	X	X									
6	CEF-076-57S		1714	BC	GW	15		5	5			2	3			X	X	X	X	X	X	X					
7	CEF-076-TB2															X											
8	CEF-076-110D		1855	JB	GW	7		2	3			2				X	X	X									

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe

TURNAROUND TIME (Business Days)

Approved By: / Rush Code

- ☐ 10 Days Standard
- ☐ 7 Day RUSH
- ☐ 5 Day RUSH
- ☐ 3 Day EMERGENCY
- ☐ 2 Day EMERGENCY
- ☐ 1 Day EMERGENCY
- ☐ OTHER

Emergency or Rush T/A Data Available VIA Email or Lablink

Data Deliverable Information

- ☐ COMMERCIAL "A" (RESULTS ONLY)
- ☐ COMMERCIAL "B" (RESULTS PLUS QC)
- ☐ REDT1 (EPA LEVEL 3)
- ☐ FULT1 (EPA LEVEL 4)
- ☐ EDD'S

Comments / Remarks

JC

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished by:	Date Time:	Received By:
1 Laura Marshall	6/11/09 1410	2 [signature] 6/11/09 1410	3 [signature] 06/11/09 1855	6/12/09 800	4 [signature] / Accutest 6/12/09 8:00
Relinquished by: 5	Date Time:	Received By: 6	Relinquished by: 7	Date Time:	Received By: 8

Lab Use Only: Custody Seal in Place: Y N Temp Blank Provided: Y N Preserved where Applicable: Y N Total # of Coolers: 4 Cooler Temperature (s) Celsius: 3.8 4.0 4.2 3.6

4.1 4

F65955: Chain of Custody
Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F65955 CLIENT: Solutions IES PROJECT: Cecil Fields

DATE/TIME RECEIVED: 6/12/09 8:00 # OF COOLERS RECEIVED: 4 COOLER TEMPS: 3.8 4.0 4.2 3.6

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS:

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET
- [ ] WET ICE RECEIVED IN COOLER

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- [ ] SAMPLE LABELS NOT PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DOES NOT MATCH LABEL(S)
- [ ] ID'S ON COC DOES NOT MATCH LABEL(S)
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] 5035 FIELD KIT NOT FROZEN WITHIN 48 HOUR'S
- [ ] RESIDUAL CHLORINE PRESENT

(APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS)

MISC. INFORMATION

NUMBER OF ENCORES ? 0

NUMBER OF 5035 FIELD KITS ? 0

NUMBER OF LAB FILTERED METALS ? 0

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE [signature] 6/12/09 TECHNICIAN SIGNATURE/DATE JC 6-12-09

ASBD 12/17/07

4.1

4

F65955: Chain of Custody

Page 2 of 2

APPENDIX C

AIR SPARGE SYSTEM O&M LOGS

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: 0940 ARRIVED FROM TRAILER
Date: MARCH 25, 2009 Time Out: 1240 RETURNED OFFICE

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	101	PSI
Air Compressor Temperature	177°F	°F	Air Compressor Run Hours	3	Hours
Air Compressor Load Hours	3	Hours	Condensate Container Level	0	Percent Full
Air Tank Pre-filter Gauge MAY	(Green)	Red	Air Tank Post-filter Gauge MID LEVEL	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)	
AD-12	On	Off			AD-13	(On)	Off	20+	75	WATER IN GAGE
AD-16	On	(Off)	0	75	AD-17	(On)	Off	3	60	WATER IN GAGE
AD-31	(On)	Off	0	90	AD-34	(On)	Off	0	75	
AD-33	On	(Off)	?	95	AS-30	(On)	Off	0	95	
AS-31	On	(Off)	0	55 - WATER IN GAGE	AS-37	(On)	Off	0	45	
AS-36	(On)	Off	0	85	AS-40	(On)	Off	2	105	- WATER IN GAGE
AS-38	On	(Off)	0	55	AS-42	(On)	Off	20	50	
AS-41	On	(Off)	0	35 - WATER IN GAGE	AD-11	(On)	Off	20	80	
AD-08	On	Off			AD-14	(On)	Off	20+	90	
AD-09	On	(Off)	0	75	AS-23	(On)	Off	0	0	
AD-10	On	(Off)	0	65	AS-24	(On)	Off	0	95	
AS-17	On	Off			AS-25	(On)	Off	7	40	- WATER IN GAGE
AS-18	(On)	Off	2	75	BD-101	(On)	Off	2	75	
AS-44	On	(Off)	0	55 - WATER IN GAGE	BD-105	(On)	Off	20+	20	WATER IN GAGE
AS-45	On	(Off)	0	95	BD-11	(On)	Off	8	119	
BD-05	On	Off			BD-12	(On)	Off	16	101	
BD-06	On	Off			BD-13	(On)	Off	5	100	- WATER IN GAGE
BD-102	On	(Off)	0	35 WATER IN GAGE	BD-83	(On)	Off	20	95	
BD-106	(On)	Off	0	85 WATER IN GAGE	BD-90	(On)	Off	11	80	WATER IN GAGE
BD-91	On	Off			BD-96	(On)	Off	2	90	WATER IN GAGE
BD-97	On	(Off)	2	60 WATER IN GAGE	AD-19	(On)	Off	20	85	WATER IN GAGE
AD-15	On	(Off)	0	75	AD-20	On	Off	?		
AD-18	On	(Off)	0	80	AD-30	On	(Off)	0	95	
AS-29	(On)	Off	0	90	AD-32	On	(Off)	2	20	
AS-32	(On)	Off	0	90	AS-35	(On)	Off	4	90	
BD-100	On	(Off)	0	90 WATER IN GAGE	AS-39	(On)	Off	0	35	
BD-19	On	Off			AS-43	(On)	Off	7	50	
BD-20	On	(Off)	10?	75 WATER IN GAGE	BD-26	(On)	Off	0	95	- WATER IN GAGE
BD-21	On	(Off)	0	115 WATER IN GAGE	BD-27	(On)	Off	17	50	WATER IN GAGE
BD-82	On	Off			BD-32	(On)	Off	0	70	
BD-89	On	(Off)	2	70 WATER IN GAGE	BD-52	(On)	Off	20	75	
BD-94	On	(Off)	0	80 WATER IN GAGE	BD-81	(On)	Off	?	45	WATER IN GAGE
BD-95	On	(Off)	0	85	BD-88	On	(Off)	10	60	WATER IN GAGE

Comments: SYSTEM OPERATING ON ARRIVAL, UNABLE TO LOCATE COMPRESSOR TEMP AND RUN HOUR GAGES, WHERE ARE THEY? THIS SYSTEM APPEARS TO NOT HAVE HAD BASIC MAINTENANCE PERFORMED FOR SOME TIME. LENS COVERS OVER LAMPS FADED AND DIRTY, MAKING VIEWING OF RED LAMPS ALMOST IMPOSSIBLE. HAVE NO CONFIDENCE WITH GAGE PRESSURE VALUES. MANY GAGES FILLED WITH WATER. ALL GAGES HAVE NOT BEEN CALIBRATED. ALL PRESSURE LINES REQUIRE RE-LABELING. ALL RED DIODE LAMPS SHOULD BE REPLACED. SUSPECT MANY ARE BURNED OUT. CHECK SHEET SHOULD BE ALPHABETICALLY-NUMERICALLY REORGANIZED. ALL GAGES MUST BE REPLACED.

TO: MR BRIAN REGAR
FIELD SERVICES MANAGER
SOLUTIONS-IES, INC.
919 873-1060
FAX: 919 873-1074

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: 1005 ARRIVED FROM TRAILER
Date: MARCH 31, 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	104	PSI
Air Compressor Temperature	174	°F	Air Compressor Run Hours	021260	Hours
Air Compressor Load Hours	020476	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge MAX	(Green)	Red	Air Tank Post-filter Gauge 1/3 over	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On (Off)	2	85	AD-13	(On) Off	2	90
AD-16	On (Off)	0	70	AD-17	On (Off)	0	60
AD-31	(On) Off	0	90	AD-34	(On) Off	0	85
AD-33	(On) Off	?	100	AS-30	On (Off)	0	100
AS-31	On (Off)	0	55	AS-37	On (Off)	0	60
AS-36	On (Off)	0	85	AS-40	On (Off)	2	115
AS-38	(On) Off	0	55	AS-42	(On) Off	2	70
AS-41	On (Off)	0	35	AD-11	(On) (Off)	20+	90
AD-08	(On) Off	0	105	AD-14	(On) Off	2	100
AD-09	On (Off)	0	80	AS-23	On (Off)	0	0
AD-10	On (Off)	0	60	AS-24	On (Off)	?	100
AS-17	On (Off)	0	100	AS-25	On (Off)	0	55
AS-18	On (Off)	0	70	BD-101	On (Off)	0	55
AS-44	On (Off)	0	55	BD-105	(On) Off	0	20
AS-45	On (Off)	2	105	BD-11	On (Off)	7	125
BD-05	On (Off)	2	40	BD-12	On (Off)	1	100
BD-06	On (Off)	0	95	BD-13	On (Off)	2	105
BD-102	(On) Off	0	35	BD-83	(On) Off	20+	100
BD-106	(On) Off	2	90	BD-90	(On) Off	0	80
BD-91	(On) Off	0	110	BD-96	On (Off)	0	90
BD-97	(On) Off	20+	80	AD-19	On (Off)	0	100
AD-15	On (Off)	0	75	AD-20	(On) Off	0	85
AD-18	(On) Off	0	75	AD-30	On (Off)	?	100
AS-29	On (Off)	0	100	AD-32	On (Off)	0	20
AS-32	On (Off)	2	100	AS-35	On (Off)	0	100
BD-100	(On) Off	2	100	AS-39	(On) Off	0	50
BD-19	On (Off)	2	90	AS-43	(On) Off	2	65
BD-20	On (Off)	20+	80	BD-26	On (Off)	1	100
BD-21	On (Off)	0	125	BD-27	On (Off)	0	50
BD-82	On (Off)	0	100	BD-32	(On) Off	0	70
BD-89	On (Off)	2	100	BD-52	On (Off)	0	90
BD-94	On (Off)	0	80	BD-81	On (Off)	2	50
BD-95	(On) Off	2	90	BD-88	On (Off)	0	70

Comments: SYSTEM OPERATING ON ARANAL, #AD-20 IS NOT MARKED ON MANIFOLD. THE SYSTEM APPEARS TO NOT HAVE BASIC MAINTENANCE FOR SOME TIME, LENS COVERS OVER RED DIODE LIGHTS FADED AND DIRTY MAKING VIEWING OF LAMPS DIFFICULT AT BEST. SUSPECT ALL RED DIODE LAMPS REQUIRE REPLACEMENT AS MOST ARE PROBABLY BURNED OUT OR GLOW VERY DIM. HAVE NO CONFIDENCE WITH GAGE READINGS. GAGES HAVE NOT BEEN CALIBRATED SINCE ORIGINAL INSTALLATION. NUMEROUS GAGES ARE FILLED WITH WATER AND NOT OPERABLE. ALL GAGES SHOULD BE REPLACED.

** IMPORTANT. AREA HAS FOUR FILLED 55 GALLON IAI/IAR DRUMS AND 1 5 GALLON 3HI JERRICAN FILLED WITH NONHAZARDOUS WASTE LIQUID WHICH REQUIRE DISPOSAL AT BEST OPPORTUNITY. THE LAST 3HI JERRICAN IS BEING USED TO COLLECT CONDENSATE OIL MIX.

NOT MARKED PROPERLY MARKED AS BD

TO: MR BRIAN REBAR
FIELD SERVICES MANAGER
SOLUTIONS-IES, INC.
919 873-1060
FAX: 919 873-1074

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: 10:30 ARRIVED FROM TRAILER
Date: APRIL 7, 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	108	PSI
Air Compressor Temperature	168°	°F	Air Compressor Run Hours	021429	Hours
Air Compressor Load Hours	020644	Hours	Condensate Container Level *	100	Percent Full
Air Tank Pre-filter Gauge MAX	(Green)	Red	Air Tank Post-filter Gauge 1/3 UP	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On (Off)	0	90	AD-13	On (Off)	0	90
AD-16	On (Off)	0	70	AD-17	On (Off)	0	60
AD-31	On (Off)	0	95	AD-34	On (Off)	0	90
AD-33	On (Off)	2	105	AS-30	On (Off)	0	110
AS-31	On (Off)	0	50	AS-37	On (Off)	0	60
AS-36	On (Off)	0	90	AS-40	On (Off)	2	115
AS-38	On (Off)	0	60	AS-42	On (Off)	0	70
AS-41	On (Off)	0	35	AD-11	On (Off)	20+	90
AD-08	On (Off)	0	110	AD-14	On (Off)	0	105
AD-09	On (Off)	0	70	AS-23	On (Off)	1	0
AD-10	On (Off)	0	65	AS-24	On (Off)	0	105
AS-17	On (Off)	0	105	AS-25	On (Off)	1	60
AS-18	On (Off)	1	70	BD-101	On (Off)	0	90
AS-44	On (Off)	0	55	BD-105	On (Off)	0	20
AS-45	On (Off)	0	105	BD-11	On (Off)	6	130
BD-05	On (Off)	2	40	BD-12	On (Off)	0	100
BD-06	On (Off)	2	100	BD-13	On (Off)	2	110
BD-102	On (Off)	2	35	BD-83	On (Off)	20	100
BD-106	On (Off)	1	90	BD-90	On (Off)	0	80
BD-91	On (Off)	1	115	BD-96	On (Off)	0	90
BD-97	On (Off)	20	80	AD-19	On (Off)	0	100
AD-15	On (Off)	0	75	AD-20	On (Off)	0	90
AD-18	On (Off)	1	80	AD-30	On (Off)	0	110
AS-29	On (Off)	0	100	AD-32	On (Off)	0	100
AS-32	On (Off)	0	100	AS-35	On (Off)	0	100
BD-100	On (Off)	2	100	AS-39	On (Off)	0	55
BD-19	On (Off)	2	90	AS-43	On (Off)	0	70
BD-20	On (Off)	10	80	BD-26	On (Off)	0	100
BD-21	On (Off)	0	130	BD-27	On (Off)	0	50
BD-82	On (Off)	0	105	BD-32	On (Off)	0	70
BD-89	On (Off)	0	90	BD-52	On (Off)	0	90
BD-94	On (Off)	0	80	BD-81	On (Off)	2	50
BD-95	On (Off)	2	90	BD-88	On (Off)	0	60

Comments: SYSTEM OPERATING ON ARRIVAL. * IMPORTANT - AREA HAS FOUR FILLED 55 GALLON DRUMS AND 2 FILLED 5 GALLON JERRICANS OF NON REGULATED OILY FLUID. MUST BE DISPOSED NOW! CONDENSATE JERRICAN WILL BEGIN OVERFLOWING ONTO GROUND. THE SYSTEM DOES NOT APPEAR TO HAVE HAD BASIC MAINTENANCE SINCE ORIGINAL INSTALLATION. MOST RED DIODE LAMPS ARE PROBABLY BURNED OUT.

HAVE NO CONFIDENCE WITH GAGE READINGS. ALL GAGES HAVE NOT BEEN CALIBRATED. MANY GAGES ARE WATER FILLED. ALL GAGES REQUIRE REPLACEMENT.

TO: MR BRIAN REBAR
FIELD SERVICES MANAGER
SOLUTIONS - IES, INC.
919 873-1060
FAX: 919 873-1074

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: ARRIVED FROM TRAILER 12:30 PM
Date: APRIL 14, 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	105	PSI
Air Compressor Temperature	179	°F	Air Compressor Run Hours	021599	Hours
Air Compressor Load Hours	020815	Hours	Condensate Container Level	100%	Percent Full
Air Tank Pre-filter Gauge MAX	(Green)	Red	Air Tank Post-filter Gauge 2/3 up	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)
AD-12	(On)	Off	0	70	AD-13	On	(Off)	0	110
AD-16	On	(Off)	0	50	AD-17	On	(Off)	2	60
AD-31	(On)	Off	0	80	AD-34	(On)	Off	0	85
AD-33	(On)	Off	0	100	AS-30	On	(Off)	0	100
AS-31	(On)	Off	12	40	AS-37	On	(Off)	0	60
AS-36	(On)	Off	6	70	AS-40	On	(Off)	2	110
AS-38	(On)	Off	0	40	AS-42	On	(Off)	0	70
AS-41	On	(Off)	7	35	AD-11	On	(Off)	0	90
AD-08	(On)	Off	1	100	AD-14	(On)	Off	1	100
AD-09	(On)	Off	2	55	AS-23	On	(Off)	0	0
AD-10	(On)	Off	17	50	AS-24	On	(Off)	0	100
AS-17	On	(Off)	20+	100	AS-25	On	(Off)	0	50
AS-18	(On)	Off	20+	50	BD-101	On	(Off)	0	90
AS-44	(On)	Off	0	35	BD-105	On	(Off)	0	20
AS-45	On	(Off)	0	100	BD-11	On	(Off)	6	120
BD-05	(On)	Off	20+	40	BD-12	On	(Off)	1	100
BD-06	(On)	Off	0	100	BD-13	On	(Off)	1	100
BD-102	(On)	Off	0	35	BD-83	On	(Off)	1	110
BD-106	(On)	Off	20	70	BD-90	On	(Off)	0	80
BD-91	(On)	Off	12	110	BD-96	On	(Off)	1	90
BD-97	(On)	Off	20	80	AD-19	On	(Off)	0	100
AD-15	(On)	Off	0	55	AD-20	On	(Off)	0	90
AD-18	(On)	Off	18	60	AD-30	On	(Off)	0	100
AS-29	(On)	Off	0	100	AD-32	On	(Off)	1	20
AS-32	On	(Off)	2	90	AS-35	On	(Off)	0	90
BD-100	(On)	Off	20	100	AS-39	On	(Off)	0	50
BD-19	(On)	Off	1	70	AS-43	On	(Off)	0	60
BD-20	(On)	Off	20	60	BD-26	On	(Off)	0	100
BD-21	(On)	Off	0	120	BD-27	On	(Off)	0	50
BD-82	On	(Off)	0	100	BD-32	On	(Off)	0	70
BD-89	On	(Off)	1	90	BD-52	On	(Off)	0	90
BD-94	(On)	Off	20	80	BD-81	On	(Off)	1	50
BD-95	(On)	Off	1	80	BD-88	On	(Off)	0	80

Comments: SYSTEM OPERATING ON ARRIVAL. AREA HAS FOUR FILLED 55 GAL DRUMS AND 2 5 GAL JERRICANS WITH USED CONDENSATE. THESE REQUIRE PICKUP AND REPLACEMENT WITH EMPTY CONTAINERS. HAVE NO CONFIDENCE WITH SYSTEM GAGE READINGS. SYSTEM HAS NOT HAD BASIC MAINTENANCE SINCE INSTALLATION. MOST RED DIODE LAMPS PROBABLY BURNED OUT.

MANY GAGES FILLED WITH WATER AND MANY GAGES APPEAR TO BE NON-OPERATIVE. GAGES HAS NOT BEEN CALIBRATED SINCE INSTALLATION. ALL GAGES REQUIRE REPLACEMENT.

TO: MR BRIAN REBAR
FIELD SERVICES MANAGER
SOLUTIONS-IES INC.
919 873-1060
FAX: 919 873-1074

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: ARRIVED FROM TRAILER 10:40 am
Date: APRIL 21, 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	100	PSI
Air Compressor Temperature	178	°F	Air Compressor Run Hours	021765	Hours
Air Compressor Load Hours	020980	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge MAX	(Green)	Red	Air Tank Post-filter Gauge 1/2 up	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On (Off)	0	90	AD-13	(On) Off	20+	70
AD-16	On (Off)	0	80	AD-17	(On) Off	1	60
AD-31	On (Off)	0	60	AD-34	(On) Off	1	75
AD-33	On (Off)	0	95	AS-30	(On) Off	0	110
AS-31	(On) Off	20+	70	AS-37	(On) Off	0	40
AS-36	On (Off)	0	90	AS-40	(On) Off	0	110
AS-38	On (Off)	0	50	AS-42	(On) Off	0	50
AS-41	On (Off)	0	35	AD-11	(On) Off	20+	75
AD-08	On (Off)	0	100	AD-14	(On) Off	20+	90
AD-09	On (Off)	0	80	AS-23	(On) Off	0	0
AD-10	On (Off)	0	65	AS-24	(On) Off	0	90
AS-17	On (Off)	0	95	AS-25	(On) Off	5	40
AS-18	On (Off)	0	80	BD-101	(On) Off	0	75
AS-44	On (Off)	0	55	BD-105	(On) Off	20+	20
AS-45	On (Off)	0	95	BD-11	(On) Off	6	115
BD-05	On (Off)	1	40	BD-12	(On) Off	15	100
BD-06	On (Off)	0	90	BD-13	(On) Off	2	100
BD-102	On (Off)	1	35	BD-83	(On) Off	20+	100
BD-106	On (Off)	1	90	BD-90	(On) Off	11	90
BD-91	On (Off)	0	105	BD-96	(On) Off	2	80
BD-97	On (Off)	20+	80	AD-19	(On) Off	20+	80
AD-15	On (Off)	0	70	AD-20	On (Off)	0	90
AD-18	On (Off)	0	80	AD-30	On (Off)	0	90
AS-29	On (Off)	0	115	AD-32	(On) Off	1	20
AS-32	On (Off)	0	90	AS-35	(On) Off	0	80
BD-100	On (Off)	0	90	AS-39	(On) Off	0	35
BD-19	On (Off)	0	70	AS-43	(On) Off	7	45
BD-20	On (Off)	20	80	BD-26	(On) Off	1	95
BD-21	On (Off)	10	115	BD-27	(On) Off	15	50
BD-82	On (Off)	0	100	BD-32	(On) Off	0	70
BD-89	On (Off)	0	90	BD-52	(On) Off	20	70
BD-94	On (Off)	1	80	BD-81	(On) Off	0	45
BD-95	On (Off)	1	90	BD-88	On (Off)	6	70

Comments: SYSTEM OPERATING ON ARRIVAL. UNIDENTIFIED CONTRACTOR ON SITE ON ARRIVAL IN WHITE PICKUP TRUCK PUMPING WASTE CONDENSATE WATER FROM 4 FILLED 55 GALLON DRUMS ONSITE. FILLED 5 GAL POLYJERRI CAN EMPTIED INTO DRUM. HAVE NO CONFIDENCE WITH SYSTEM GAGE READINGS. SYSTEM HAS NOT HAD BASIC MAINTENANCE SINCE INSTALLATION. MOST RED DIODE LAMPS PROBABLY BURNED OUT. MANY GAGES ARE FILLED WITH WATER AND NOT OPERABLE. ALL GAGES HAVE NOT BEEN CALIBRATED SINCE INSTALLATION AND REQUIRE REPLACEMENT.

TO: MR BRIAN REBAR
FIELD SERVICE MANAGER
SOLUTIONS, IES, INC.
919 873-1060
FAX: 919 873-1074

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP
Date: APRIL 30, 2009

Time In: ARRIVED FROM TRAILER 10:40 AM
Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	96	PSI
Air Compressor Temperature	179	°F	Air Compressor Run Hours	021981	Hours
Air Compressor Load Hours	021196	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge MAX	(Green)	Red	Air Tank Post-filter Gauge 1/2 UP	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)
AD-12	(On)	Off	20+	70	AD-13	On	(Off)	0	90
AD-16	On	(Off)	20	60	AD-17	On	(Off)	0	60
AD-31	(On)	Off	5	80	AD-34	On	(Off)	0	85
AD-33	(On)	Off	0	90	AS-30	On	(Off)	0	90
AS-31	(On)	Off	15	40	AS-37	On	(Off)	0	60
AS-36	(On)	Off	7	65	AS-40	On	(Off)	0	100
AS-38	(On)	Off	0	40	AS-42	On	(Off)	0	70
AS-41	(On)	Off	7	35	AD-11	On	(Off)	20	90
AD-08	(On)	Off	1	90	AD-14	(On)	Off	0	90
AD-09	(On)	Off	1	60	AS-23	On	(Off)	0	0
AD-10	(On)	Off	17	50	AS-24	On	(Off)	0	90
AS-17	(On)	Off	20+	90	AS-25	On	(Off)	0	55
AS-18	(On)	Off	20+	50	BD-101	On	(Off)	0	75
AS-44	(On)	Off	0	40	BD-105	On	(Off)	0	20
AS-45	(On)	Off	0	90	BD-11	On	(Off)	7	110
BD-05	(On)	Off	20+	40	BD-12	On	(Off)	0	100
BD-06	(On)	Off	0	90	BD-13	On	(Off)	0	95
BD-102	(On)	Off	20+	35	BD-83	On	(Off)	0	100
BD-106	(On)	Off	20+	70	BD-90	On	(Off)	0	80
BD-91	(On)	Off	20+	100	BD-96	On	(Off)	0	90
BD-97	(On)	Off	20+	80	AD-19	On	(Off)	0	90
AD-15	(On)	Off	0	55	AD-20	On	(Off)	0	90
AD-18	(On)	Off	20+	60	AD-30	On	(Off)	0	90
AS-29	(On)	Off	0	90	AD-32	On	(Off)	0	15
AS-32	(On)	Off	1	80	AS-35	On	(Off)	0	80
BD-100	(On)	Off	20+	80	AS-39	On	(Off)	0	50
BD-19	(On)	Off	0	70	AS-43	On	(Off)	0	60
BD-20	(On)	Off	20	60	BD-26	On	(Off)	0	90
BD-21	(On)	Off	10	110	BD-27	On	(Off)	0	50
BD-82	(On)	Off	0	90	BD-32	On	(Off)	0	70
BD-89	On	(Off)	0	70	BD-52	On	(Off)	0	90
BD-94	(On)	Off	20+	80	BD-81	On	(Off)	0	50
BD-95	(On)	Off	0	80	BD-88	On	(Off)	0	70

Comments: SYSTEM OPERATING ON ARRIVAL. CONDENSATE FULL AND EMPTIED. HAVE NO CONFIDENCE WITH GAGE READINGS. MANY GAGES WATER FILLED. MANY GAGES APPEAR INOPERATIVE. GAGES NOT CALIBRATED SINCE INSTALLATION. SUSPECT MANY RED LIGHT DIODES ON MANIFOLD BURNED OUT. ALL GAGES REQUIRE REPLACEMENT.

TO: MR BRIAN REGAR
FIELD SERVICE MANAGER
SOLUTIONS IES INC.
919 873-1060
FAX: 919 873-1074

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: ARRIVED FROM TRAILER 10:00 AM
Date: MAY 6, 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	98	PSI
Air Compressor Temperature	178	°F	Air Compressor Run Hours	022124	Hours
Air Compressor Load Hours	021340	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge MAX	(Green)	Red	Air Tank Post-filter Gauge 1/2 UP	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On (Off)	0	90	AD-13	(On) Off	20+	70
AD-16	On (Off)	0	80	AD-17	(On) Off	0	60
AD-31	On (Off)	0	90	AD-34	(On) Off	0	70
AD-33	On (Off)	0	90	AS-30	(On) Off	0	90
AS-31	On (Off)	0	60	AS-37	(On) Off	0	40
AS-36	On (Off)	0	85	AS-40	(On) Off	0	105
AS-38	On (Off)	0	55	AS-42	(On) Off	20	50
AS-41	On (Off)	0	35	AD-11	(On) Off	20+	75
AD-08	On (Off)	0	95	AD-14	(On) Off	20+	85
AD-09	(On) Off	0	80	AS-23	(On) Off	0	0
AD-10	On (Off)	0	65	AS-24	(On) Off	0	90
AS-17	On (Off)	0	90	AS-25	(On) Off	0	40
AS-18	On (Off)	0	80	BD-101	(On) Off	0	75
AS-44	On (Off)	0	55	BD-105	(On) Off	20+	20
AS-45	On (Off)	0	90	BD-11	(On) Off	7	110
BD-05	On (Off)	1	40	BD-12	(On) Off	20+	95
BD-06	On (Off)	0	90	BD-13	(On) Off	0	95
BD-102	On (Off)	0	35	BD-83	(On) Off	20+	95
BD-106	On (Off)	0	90	BD-90	(On) Off	9	90
BD-91	On (Off)	0	100	BD-96	(On) Off	0	80
BD-97	On (Off)	0	85	AD-19	(On) Off	20+	80
AD-15	On (Off)	0	70	AD-20	(On) Off	0	70
AD-18	On (Off)	0	80	AD-30	On (Off)	0	90
AS-29	On (Off)	0	90	AD-32	(On) Off	0	15
AS-32	On (Off)	0	85	AS-35	(On) Off	0	80
BD-100	On (Off)	0	90	AS-39	(On) Off	0	35
BD-19	On (Off)	0	70	AS-43	(On) Off	7	50
BD-20	On (Off)	20	80	BD-26	(On) Off	0	90
BD-21	On (Off)	0	115	BD-27	(On) Off	15	50
BD-82	On (Off)	0	90	BD-32	(On) Off	0	70
BD-89	On (Off)	0	90	BD-52	(On) Off	20	70
BD-94	On (Off)	0	80	BD-81	(On) Off	20+	50
BD-95	On (Off)	0	85	BD-88	On (Off)	7	80

Comments SYSTEM OPERATING ON ARRIVAL. CONDENSATE FULL AND EMPTIED. HAVE NO CONFIDENCE WITH GAGE READINGS. MANY GAGES WATER FILLED. GAGES HAVE NOT BEEN CALIBRATED SINCE SYSTEM INSTALLATION. GAGE RECORDINGS DO NOT SEEM LOGICAL. SUSPECT NUMEROUS RED MANIFOLD DIODE LAMPS BURNED OUT.

TO: MR BRIAN REBAR
FIELD SERVICE MANAGER
SOLUTIONS IES INC.
919 873-1060
FAX: 919 873-1074

NORTH FUEL FARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: ARRIVED FROM TRAILER 9:40 AM
Date: MAY 11, 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	97	PSI
Air Compressor Temperature	173	°F	Air Compressor Run Hours	022268	Hours
Air Compressor Load Hours	021483	Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge MAX	(Green)	Red	Air Tank Post-filter Gauge 3/4 UP	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light		Flow Rate (SCFM)	Pressure (PSI)
AD-12	(On)	Off	0	70	AD-13	On	(Off)	0	90
AD-16	On	(Off)	20+	55	AD-17	On	(Off)	0	60
AD-31	(On)	Off	0	80	AD-34	On	(Off)	0	85
AD-33	(On)	Off	0	90	AS-30	On	(Off)	0	90
AS-31	(On)	Off	15	40	AS-37	On	(Off)	0	60
AS-36	(On)	Off	5	65	AS-40	On	(Off)	0	100
AS-38	(On)	Off	0	40	AS-42	On	(Off)	0	70
AS-41	(On)	Off	10	35	AD-11	On	(Off)	20+	90
AD-08	(On)	Off	0	90	AD-14	On	(Off)	0	90
AD-09	(On)	Off	0	60	AS-23	On	(Off)	0	0
AD-10	(On)	Off	16	50	AS-24	On	(Off)	0	90
AS-17	(On)	Off	0	90	AS-25	On	(Off)	0	60
AS-18	(On)	Off	20+	50	BD-101	On	(Off)	0	80
AS-44	(On)	Off	0	40	BD-105	On	(Off)	0	20
AS-45	(On)	Off	0	90	BD-11	On	(Off)	7	110
BD-05	(On)	Off	20+	40	BD-12	On	(Off)	0	95
BD-06	(On)	Off	0	90	BD-13	On	(Off)	0	95
BD-102	(On)	Off	20+	35	BD-83	On	(Off)	20+	100
BD-106	(On)	Off	20+	70	BD-90	On	(Off)	0	95
BD-91	(On)	Off	20	100	BD-96	On	(Off)	0	85
BD-97	(On)	Off	20+	80	AD-19	On	(Off)	0	90
AD-15	(On)	Off	0	55	AD-20	On	(Off)	0	90
AD-18	(On)	Off	0	60	AD-30	(On)	Off	0	90
AS-29	(On)	Off	0	90	AD-32	On	(Off)	0	10
AS-32	(On)	Off	0	80	AS-35	On	(Off)	0	80
BD-100	(On)	Off	20+	90	AS-39	On	(Off)	0	50
BD-19	(On)	Off	0	70	AS-43	On	(Off)	0	65
BD-20	(On)	Off	20	60	BD-26	On	(Off)	0	90
BD-21	(On)	Off	7	110	BD-27	On	(Off)	0	50
BD-82	(On)	Off	0	90	BD-32	On	(Off)	0	70
BD-89	On	(Off)	5	80	BD-52	On	(Off)	0	90
BD-94	(On)	Off	20	80	BD-81	On	(Off)	0	45
BD-95	(On)	Off	1	80	BD-88	On	(Off)	0	60

Comments: SYSTEM OPERATING ON ARRIVAL. FILLED 5 GAL JERRICAN OF CONDENSATE EMPTIED INTO WASTE DRUM. JUST FOR INFO: THE 250 GALLON IBC OF WHAT I BELIEVE IS OUR WASTE WATER PUMPED APRIL 21ST IS STILL ≈75 FEET OUTSIDE OF FENCE

TO: MR BRIAN REBAR
FIELD SERVICE MANAGER
SOLUTIONS IES INC
919 873-1060
FAX: 919 873-1074

May-12-09 12:47P P.02

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: 10:15 ARRIVED FROM TRAILER
Date: MAY 22, 2009 Time Out: _____

Air Compressor

Air Compressor Status	On	Off	Air Compressor Pressure	_____	PSI
Air Compressor Temperature	_____	°F	Air Compressor Run Hours	_____	Hours
Air Compressor Load Hours	_____	Hours	Condensate Container Level	_____	Percent Full
Air Tank Pre-filter Gauge	Green	Red	Air Tank Post-filter Gauge	Green	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On Off			AD-13	On Off		
AD-16	On Off			AD-17	On Off		
AD-31	On Off			AD-34	On Off		
AD-[illegible]	On Off			[illegible]-30	On Off		
AS-31	On Off			AS-37	On Off		
AS-[illegible]	On Off			AS-40	On Off		
AS-[illegible]	On Off			AS-42	On Off		
[illegible]-11	On Off			AD-11	On Off		
AD-[illegible]	On Off			AD-14	On Off		
[illegible]-09	On Off			AS-23	On Off		
[illegible]-10	On Off			AS-24	On Off		
[illegible]-17	On Off			AS-25	On Off		
AS-18	On Off			BD-101	On Off		
AS-44	On Off			BD-105	On Off		
AS-45	On Off			BD-11[illegible]	On Off		
[illegible]-05	On Off			BD-12	On Off		
BD-06	On Off			BD-1[illegible]	On Off		
BD-102	On Off			BD-8[illegible]	On Off		
BD-106	On Off			BD-90	On Off		
BD-91	On Off			BD-9[illegible]	On Off		
BD-97	Off			AD-1[illegible]	On Off		
AD-15	Off			AD-20	On Off		
AD-18	On Off			AD-30	On Off		
AS-29	On Off			AD-32	On Off		
AS-32	Off			AS-3[illegible]	On Off		
BD-100	On Off			AS-39	On Off		
BD-19	On Off			AS-[illegible]	On Off		
BD-20	On Off			BD-26	On Off		
BD-21	Off			BD-27	On Off		
BD-82	On Off			BD-[illegible]	On Off		
BD-89	On Off			BD-52	On Off		
BD-94	On Off			BD-8[illegible]	On Off		
BD-95	On Off			BD-[illegible]8	On Off		

UNABLE TO PERFORM WEEKLY INSPECTION BECAUSE SOLUTIONS TESTING LOCK HAS BEEN REMOVED FROM SECURITY GATE CHAIN. SYSTEM HEARD TO BE OPERATING ON ARRIVAL OUTSIDE FENCE.

Comments:

TO: MR BRIAN REBAR
FIELD SERVICE MANAGER
SOLUTIONS TES INC
919 873-1060
FAX: 919 873-1074

Solutions-TES
(919) 873-1060

OpmMform.xls

NORTH FUI ARM AIR SPARGE SYSTEM OPERATION AND MAINTENANCE FORM
CECIL FIELD
JACKSONVILLE, FL
8030.08A2.NAVF

Technician: MILLARD H. SHARP Time In: ARRIVED FROM TRAILER 10:55am
Date: JUNE 3 2009 Time Out: _____

Air Compressor

Air Compressor Status	(On)	Off	Air Compressor Pressure	99	PSI
Air Compressor Temperature	184	°F	Air Compressor Run Hours		Hours
Air Compressor Load Hours		Hours	Condensate Container Level	100	Percent Full
Air Tank Pre-filter Gauge MAY	(Green)	Red	Air Tank Post-filter Gauge 1/2 up	(Green)	Red

Sparge Well Manifolds

Cycle 1 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)	Cycle 2 Wells	Red Indicator Light	Flow Rate (SCFM)	Pressure (PSI)
AD-12	On (Off)	0	90	AD-13	(On) Off	20+	70
AD-16	On (Off)	0	80	AD-17	(On) Off	0	60
AD-31	On (Off)	0	90	AD-34	(On) Off	0	80
AD-33	On (Off)	0	90	AS-30	(On) Off	0	95
AS-31	On (Off)	0	60	AS-37	(On) Off	0	40
AS-36	On (Off)	0	85	AS-40	(On) Off	1	110
AS-38	On (Off)	0	55	AS-42	(On) Off	20	50
AS-41	On (Off)	0	35	AD-11	(On) Off	20+	75
AD-08	On (Off)	0	100	AD-14	(On) Off	20+	85
AD-09	On (Off)	0	100	AS-23	(On) Off	0	0
AD-10	On (Off)	0	65	AS-24	(On) Off	0	90
AS-17	On (Off)	0	90	AS-25	(On) Off	4	35
AS-18	On (Off)	0	80	BD-101	(On) Off	0	75
AS-44	On (Off)	0	55	BD-105	(On) Off	20+	20
AS-45	On (Off)	0	95	BD-11	(On) Off	6	115
BD-05	On (Off)	1	40	BD-12	(On) Off	0	90
BD-06	On (Off)	0	90	BD-13	(On) Off	0	95
BD-102	On (Off)	0	35	BD-83	(On) Off	20+	100
BD-106	On (Off)	0	85	BD-90	(On) Off	12	75
BD-91	On (Off)	0	105	BD-96	(On) Off	0	80
BD-97	On (Off)	20+	80	AD-19	(On) Off	20+	80
AD-15	On (Off)	20	70	AD-20	(On) Off	20	70
AD-18	On (Off)	0	80	AD-30	On (Off)	0	90
AS-29	On (Off)	0	95	AD-32	(On) Off	0	85
AS-32	On (Off)	0	80	AS-35	(On) Off	0	80
BD-100	On (Off)	0	90	AS-39	(On) Off	0	30
BD-19	On (Off)	0	90	AS-43	(On) Off	7	45
BD-20	On (Off)	20+	80	BD-26	(On) Off	0	95
BD-21	On (Off)	0	115	BD-27	(On) Off	15	50
BD-82	On (Off)	0	95	BD-32	(On) Off	0	65
BD-89	On (Off)	0	95	BD-52	(On) Off	20	70
BD-94	On (Off)	0	85	BD-81	(On) Off	20+	50
BD-95	On (Off)	0	90	BD-88	(On) Off	6	80

Comments: MENU FUNCTION UP, DOWN, AND ESCAPE KEYS ON FUNCTIONS CONTROL PANEL WILL NOT SCROLL UP/DOWN OR RESET TO PERMIT RECORDING LOAD AND RUN HOURS DE-ACTIVATED SYSTEM AFTER INSPECTION PER DIRECTION. EMPTIED CONDENSATE PAIL.

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