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OPTION YEAR 1 FOURTH QUARTER 2007 OPERATIONS AND MAINTENANCE STATUS REPORT FOR AIR SPARGING SYSTEM AT JET ENGINE TEST CELL NAS CECIL FIELD FL

5/30/2007

ESA ENVIRONMENTAL SPECIALISTS INC

Option Year 1, Fourth Quarter 2007
Operations and Maintenance Status Report

Air Sparging System
Jet Engine Test Cell

Former Naval Air Station Cecil Field
Jacksonville, Florida

Contract No. N62467-03-G-0016

Submitted to:

U.S. Naval Facilities
Engineering Command
Southern Division

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Acronyms

ABB-ES	ABB Environmental Services, Inc.
AS	Air Sparging
AST	Aboveground Storage Tank
bls	Below Land Surface
BTEX	benzene, toluene, ethylbenzene, xylene
CA	Contamination Assessment
CAR	Contamination Assessment Report
cfm	cubic feet per minute
CTO	Contract Task Order
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
ESA	ESA Environmental Specialists, Inc
FAC	Florida Administration Code
FDEP	Florida Department of Environmental Protection
FID	Flame ionization detector
FL-PRO	Florida Petroleum Residual Organic
GAC	granular activated carbon
GCTLs	groundwater cleanup target levels
JETC	Jet Engine Test Cell
LNAPL	Light Non-Aqueous Phase Liquids
mg/ L	milligrams per liter
MTBE	methyl tert butyl ether
NADSC	Natural Attenuation Default Source Concentration
NAS	Naval Air Station
NAVFAC EDF SOUTH	Naval Facilities Engineering Command, Engineering Field Division, Southern Division
O&M	Operation and Maintenance
ORP	oxygen-reduction potential
OWSs	oil water separators
PAH	polynuclear aromatic hydrocarbon
ppm	parts per million
psi	pounds per square inch

RAP	Remedial Action Plan
RAPA	Remedial Action Plan Addendum
SARA	Site Assessment Report Addendum
SCTLs	Soil Cleanup Target Levels
TRPH	total recoverable petroleum hydrocarbon
TtNUS	Tetra Tech NUS
USACE	U.S. Army Corps of Engineers
UST	Underground Storage Tank
VOC	Volatile Organic Compound

1 Introduction

ESA Environmental Specialists, Inc. (ESA) has been contracted by the Department of the Navy, Naval Facilities Engineering Command Engineering Field Division South (NAVFAC EFD SOUTH), to provide active treatment operation and maintenance (O&M) services at two groundwater remediation sites (Jet Engine Test Cell and Building 271), plus annual natural attenuation monitoring services at one groundwater remediation site (Area 199), situated at the former Naval Air Station (NAS) Cecil Field, Jacksonville, Duval County, Florida.
The purpose of this Option Year 1, Fourth Contract Quarter 2007 Operations and Maintenance Status Report is to provide a summary of activities performed at the JETC site during the period from February 1, 2007 to April 30, 2007.

1.1 Site History

JETC
The JETC site is located on the east side of the intersection of Flightline Road and Cecil Pines Street, in the vicinity of Buildings 339, 334, 328, and 811. The JETC facility was previously used by the Navy and is currently used by the private sector to test jet engines. Jet engines were mounted and operated in Building 334, 339, and 811. Building 811 has been demolished and only the foundation remains in place (Tetra Tech NUS, Inc. [TtNUS], 2002).

The following petroleum storage and handling units were associated with the JETC:

- Two 20,000-gallon JP-5 underground storage tanks (USTs) (designated 339-TC1 and 339-TC2) located in a fuel tank yard between Buildings 811 and 339
- A 5,000-gallon JP-5 aboveground storage tank (AST) (designated 339-TC3) within a 3-foot high concrete block containment wall located in the eastern portion of the tank yard
- A 940-gallon 10W engine oil AST (designated 334P), within a rubber containment structure on a concrete pad on the north side of Building 334
- Two oil water separators (OWSs); designated 325-OW and 334-OW at Building 334, and one OWS (designated 339-OW) at building 339

Environmental investigations began at the JETC site in 1989 near the area of the two 20,000-gallon JP-5 USTs, as a result of leaks discovered during tightness testing and reported overfilling spills. ABB Environmental Services, Inc. (ABB-ES) began a preliminary Contamination Assessment (CA) in 1990 that identified petroleum-impacted soil [defined as having a flame ionization detector (FID) reading of greater than 50 parts per million (PPM)]. Between 1991 and 1994, the U.S. Army Corps of Engineers (USACE) and ABB-ES conducted a comprehensive CA. Free product, soil, and groundwater contamination associated with the two 20,000-gallon JP-5 USTs were

identified and delineated during the CA and CA Report (CAR) Addendum field efforts (TtNUS, 2002).

In addition, soil contamination was identified at OWS 334-OW. Soil excavation activities were conducted at the 34-OW site in 1999; however, all of the contaminated soil was not removed. The remaining petroleum storage/handling units did not indicate the presence of soil of groundwater contamination in excess of regulatory levels (TtNUS, 2002).

In May 1999, a groundwater Monitoring Only Plan (MOP) for natural attenuation was approved by the Florida Department of Environmental Protection (FDEP) for the JETC site. Quarterly groundwater sampling was conducted under this plan from July 1997 to October 2000. Based on quarterly sampling results, it was determined that additional delineation of the groundwater contamination at the site was required (TtNUS, 2002).

TtNUS conducted additional field investigation activities in 2001 to further define the extent of the impacted groundwater at the JETC site. The Site Assessment Report Addendum (SARA) field investigation delineated the extent of groundwater contamination at the site and concluded that not all of the contaminated soil identified by previous investigations was removed from the vicinity of the OWS at the site. Groundwater contamination appeared to be limited to two separate plumes located in the northern and southern area of Buildings 334 and 339. TtNUS recommended that the two plumes be managed as one site due to their proximity and that the remaining petroleum-contaminated soil associated with site OWS 334-OW be excavated and disposed of off-site. TtNUS prepared a Remedial Action Plan (RAP) to address remediation of the soil and groundwater at the site (TtNUS, 2002).

TtNUS submitted to FDEP for approval a RAP in September 2002 and a RAP Addendum (RAPA) in January 2003 to select the remedial alternative to remediate the contaminated soil and groundwater at the site. Air sparging (AS) for groundwater and excavation for soil were selected as the appropriate remedial alternatives. FDEP approval on the RAP and RAPA was received in February 2003.

CH2M Hill Constructors, Inc. (CH2M Hill) installed an AS system in accordance with the RAP (TtNUS, 2002), RAPA (TtNUS, 2003), and Work Plan Addendum No. 18, Installation of Air Sparging Systems at the JETC site (CH2M Hill, 2003) from September to November 2003. The AS system commenced operation on November 24, 2003.

On May 24, 2005, management of on-going remedial activities at the JETC site was transferred from CH2M Hill to ESA.

A site plan showing the JETC site and the AS system layout is provided in Figure 1-1.

1.2 Remediation System/Technology Description

AS is a physical treatment method of expediting the transfer of VOCs from the soil and groundwater to the sparging air. Atmospheric air is injected into the air sparge wells, which are screened within the groundwater contaminant plume. As the injected air passes upward through the VOC laden groundwater and soil, VOCs are partitioned to the passing air and migrate to the vadose zone.

The JETC AS system consists of 10 AS wells (AS-01 through AS-10), rotary vane-type compressor, receiver tank, and associated piping and instrumentation. The AS wells are screened from approximately 28 to 30 feet below land surface (bls). The AS system is designed for each AS well to operate at an airflow rate of 10 cubic feet per minute (cfm) at an injection pressure of 15 pounds per square inch (psi). The locations of the AS wells are shown on Figure 1-1.

2 System Performance Monitoring

O&M checks of the system were performed during the monitoring period. During an O&M check, a preventative maintenance checklist (based upon manufacturers' recommendations) is completed, and any required maintenance activity is performed. All meters and gauges at the system are read and recorded during the O&M check. Well vault gauges and meters are read and recorded on a monthly basis.

2.1 Operational Efficiencies

Option Year 1, Fourth Quarter 2007

	Period (1/3/2007-5/08/2007)	**To Date (from 5/17/2005)**
Air Sparging System	JETC	JETC
Hours of Possible Operation	3,024.00	17,304.00
Hours of Actual Operation	591.81	5,760.63
Percent Hours of Operation	19.57%	33.29%

2.2 AS System Summary of Maintenance and Downtime

During the period from January 3, 2007 through May 8, 2007, (to accommodate for missing information not available during the previous reporting period), the JETC AS system ran a total of 24.66 days out of a possible 126 days resulting of 2432.19 hours of downtime.

2.3 AS System Pressure/Flow Rate Monitoring

During the monitoring period, injection pressure was measured at each AS wellhead monthly. The wellhead pressures for the operating AS wells averaged 10.52 psi, compared to the design pressure of 15 psi. The AS wellhead pressure data is provided in Table 2-1.

Table 2-1 Air Sparging Well Measurements, JETC Option Year 1, 4th Quarter 2007

Location	Air Sparge Well	Date	Wellhead Pressure (psi)		Flow Rate (scfm)	
			Initial	Reset	Initial	Reset
JETC	AS-01	1/11/2007	15.75	-	-	-
		5/8/2007	4.0	-	0	-
JETC	AS-02	1/11/2007	14.5	-	6	-
		2/21/2007				
JETC	AS-03	1/11/2007	17	-	5	-
		5/8/2007	4.5	-	0	-
JETC	AS-04	1/11/2007	14.5	-	6	-
JETC	AS-05	AS-05 remains turned off				
JETC	AS-06	1/11/2007	14.5	-	7	-
JETC	AS-07	1/11/2007	14.5	-	6	-
		5/8/2007	2.0	-	0	-
JETC	AS-08	1/11/2007	15.5	-	7	-
		5/8/2007	2.0	-	0	-
JETC	AS-09	1/11/2007	15	-	7	-
		5/8/2007	3.0	-	0	-
JETC	AS-10	AS-10 remains turned off				
Averages			**10.52 psi**		**6.29 scfm**	

psi – pounds per square inch
scfm – standard cubic feet per minute

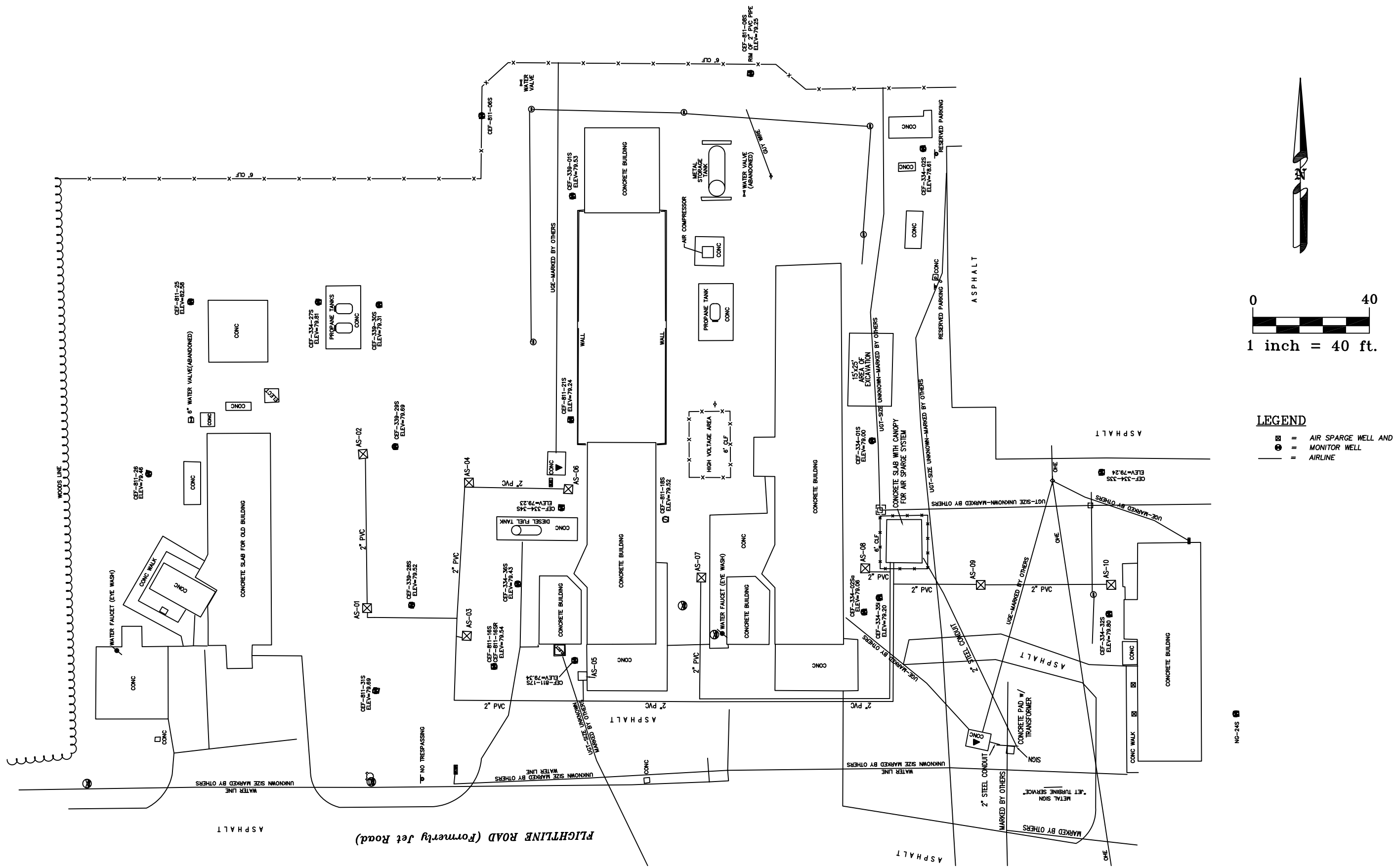
2.4 Water Level Measurements

Depth to groundwater measurements are recorded quarterly from the 15 monitoring wells. The results from the groundwater level measurement surveys are provided in Table 2-2. Light non-aqueous phase liquid (LNAPL) was not detected on monitoring wells during the monitoring period.

Table 2-2, Water Level Measurements
Option Year 1, Fourth Quarter 2007

Monitoring Well	Date	TOC Elevation (feet)	Depth to Water (feet bTOC)	Water Level Elevation (feet NGVD)
NG-24S	4/18/2007	78.17	9.69	68.48
CEF-334-32S	4/18/2007	79.80	10.15	69.65
CEF-334-33S	4/18/2007	79.24	9.56	69.68
CEF-334-02S	4/19/2007	78.61	8.83	69.78
CEF-811-08S	4/19/2007	79.26	9.33	69.93
CEF-334-01S	4/19/2007	79.00	9.48	69.52
CEF-811-06S	4/19/2007	78.02	9.41	68.61
CEF-334-02SA	4/18/2007	79.06	9.31	69.75
CEF-811-17S	4/18/2007	79.34	9.48	69.86
CEF-811-16SR	4/18/2007	79.54	9.45	70.09
CEF-334-34S	4/18/2007	79.23	10.56	68.67
CEF-339-29S	4/18/2007	79.89	9.60	70.29
CEF-339-30S	4/19/2007	79.31	9.21	70.10
CEF-339-28S	4/18/2007	79.52	9.56	69.96
CEF-811-18S	4/18/2007	79.52	9.53	69.99

Top of Casing Elevations and data prior to 4/27/00 obtained from BEI
TOC – top of casing
bTOC – Below top of casing
Elevation is referenced to National Geodetic Vertical Datum 1929 (NGVD 1929)
Depth to water measured from top of casing



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ESA Environmental Specialists, Inc. Since 1995

JET ENGINE TEST CELL
FORMER NAS CECIL FIELD
JACKSONVILLE, FLORIDA

SITE MAP

APRIL 18,2007

FIGURE 1-1

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3 Summary of Sampling and Laboratory Analytical Results

3.1 Groundwater Monitoring

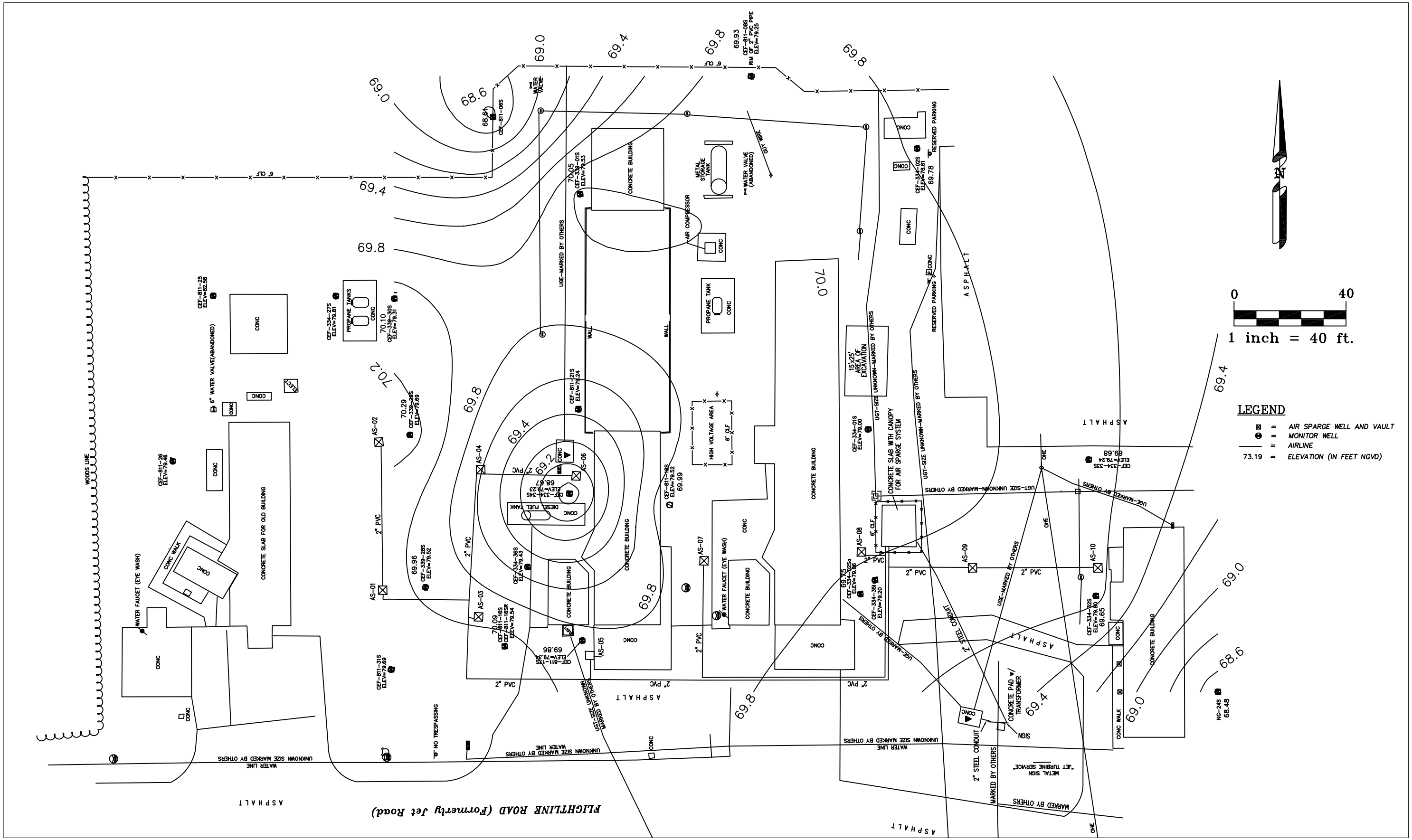
ESA conducted the Option Year 1, 4th Quarter 2007 groundwater monitoring events beginning on February 1, 2007. During the Option Year 1, 4th Quarter 2007 monitoring event monitoring wells CEF-334, 339, and 811 were sampled. The groundwater samples were laboratory analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tert butyl ether (MTBE) by EPA Method SW8021B, the 16-listed polynuclear aromatic hydrocarbons (PAHs) and 1- and 2-methylnapthalene by AEL SOP SVOC-006: 2-25-03 and SW8270C-SIM, and Total Recoverable Petroleum Hydrocarbons (TRPH) were analyzed by the Florida Petroleum Organic (FL-PRO) Method. The laboratory analytical results for the detected parameters from the Option Year 1, 4th Quarter 2007 groundwater monitoring events are summarized in Table 3-1. The locations of the monitoring wells are shown on Figure 1-1. Copies of the analytical laboratory reports from the groundwater monitoring events are provided in Appendix A.

Field parameters consisting of pH, temperature, dissolved oxygen (DO), and specific conductivity were measured during purging of the monitoring wells. The field parameters are summarized in Table 3-2. The aquifer at the JETC site within the treatment area remains somewhat aerobic in DO measurements above 1 milligram per liter (mg/ L) in only 1 of the 15 monitoring wells, which is decreased from the previous quarter where reported as 3 out of 15 monitoring wells reported highly aerobic levels. These values continue to stabilize over the past contract year reports.
The oxidation-reduction potential (ORP) measurements greater than 50 millivolts were present in only 6 of the 15 wells, which is consistent with the previous second quarterly report levels and decreased from the 8 of the 15 monitoring wells in the first quarterly report of this contract here. These values continue to stabilize over the past contract year reports.

The Groundwater Samples from the during the previous 3rd Quarterly Report 2006-2007 observed Benzene levels in CEF-811-18S above GCTL levels, and this still remains a slightly elevated GCTL level for Benzene in only CEF-811-18S. No other groundwater samples in this quarterly report measure exceeded GCTL levels.

None of the wells during this quarterly report identified concentrations that exceeded the Natural Attenuation Default Source Concentrations (NADSC) at a detectable limit. This is the same as the previously observed measurements documented in all Quarterly Reports for this Option Year 1, 2006-2007 Contract.

As compared to the previous quarterly reports, overall, the groundwater analytical concentrations have decreased and only similar to no detected levels were reported to exceed GCTLs. This indicates that the air sparge system is reducing the groundwater contamination at this site. It should be noted that the following tables do show some bolding and shading where limits were exceeded, however, these are all followed by a U which defines that the compound was analyzed for but not detected. The duplicates and equipment blanks report the same undetected limits with a number higher than the GCTLs and NADSC allow.



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ESA Since 1995 Environmental Specialists, Inc.

JET ENGINE TEST CELL
FORMER NAS CECIL FIELD
JACKSONVILLE, FLORIDA

POTENIOMETRIC SURFACE MAP
APRIL 18, 2007

FIGURE 2-1

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Table 3-1 Groundwater Analytical Results, Option Year 1, Fourth Quarter 2007

Parameter	Station ID		NG-24S	CEF-334-32S	CEF-334-33S	CEF-334-02SA	CEF-811-18S	CEF-334-34S	Equipment Blank
	Sample ID		J0754755001	J0754755002	J0754755003	J0754755004	J0754755005	J0754755006	J0754755007
	Sample Date		4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007	4/18/2007
	GCTL[1]	NADC[1]							
	micrograms per liter (µg/L)								
Volatile Aromatic Hydrocarbons									
Benzene	1	10	0.21 U	0.21 U	0.21 U	0.21 U	**1.9**	0.21 U	0.21 U
Ethylbenzene	30	300	0.17 U	0.17 U	0.17 U	0.17 U	4.2	0.17 U	0.17 U
Methyl-tert-butyl Ether	20	200	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Xylenes (total)	20	200	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Toluene	1	10	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.78 I
Polynuclear Aromatic Hydrocarbons									
1-methylnaphthalene	28	280	0.12 U	0.12 U	0.12 U	0.12 U	6.1	0.12 U	0.12 U
2-methylnaphthalene	28	280	0.18 U	0.18 U	0.18 U	0.18 U	1.3	0.18 U	0.18 U
Acenaphthene	20	200	0.13 U	0.13 U	0.13 U	0.13 U	0.15 I	0.13 U	0.13 U
Acenaphthylene	210	2100	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Anthracene	2100	21000	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Benzo(a)anthracene	0.05	0.5	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U
Benzo(a)pyrene	0.2	2	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U
Benzo(b)fluoranthene	0.05	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
Benzo(g,h,i)perylene	210	2100	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U
Benzo(k)fluoranthene	0.5	5	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U
Chrysene	4.8	48	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Dibenz(a,h)anthracene	0.005	0.05	**0.047 U**	**0.047 U**	**0.047 U**	**0.047 U**	**0.047 U**	**0.047 U**	**0.047 U**
Fluoranthene	280	2800	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U
Fluorene	280	2800	0.10 U	0.10 U	0.10 U	0.10 U	0.64	0.10 U	0.10 U
Indeno(1,2,3-cd)pyrene	0.05	0.5	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U
Naphthalene	14	140	0.15 U	0.15 U	0.15 U	0.15 U	5.5	0.15 U	0.15 U
Phenanthrene	210	2100	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Pyrene	210	2100	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U

Table 3-1 cont'd

Parameter	Station ID		Dup-1 NG-24S	CEF-811-17S	CEF-811-16SR	CEF-339-29S	CEF-339-28S	Trip Blank
	Sample ID		J0754755008	J0754755009	J0754755010	J0754755011	J0754755012	J0754755013
	Sample Date		4/18/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007	4/19/2007
	GCTL[1]	NADC[1]						
	micrograms per liter (µg/L)							
Volatile Aromatic Hydrocarbons								
Benzene	1	10	0.21 U	0.21 U	0.63 U	0.21 U	0.21 U	0.21 U
Ethylbenzene	30	300	0.17 U	0.76	0.51 U	0.17 U	0.17 U	0.17 U
Methyl-tert-butyl Ether	20	200	0.35 U	0.35 U	1.0 U	0.35 U	0.35 U	0.35 U
Xylenes (total)	20	200	0.63 U	0.63 U	1.89 U	0.63 U	0.63 U	0.63 U
Toluene	1	10	0.23 U	0.23 U	0.69 U	0.23 U	0.23 U	0.23 U
Polynuclear Aromatic Hydrocarbons								
1-methylnaphthalene	28	280	0.12 U	0.12 U	0.12 U	0.12 U	2.9	-
2-methylnaphthalene	28	280	0.18 U	0.18 U	0.18 U	0.18 U	2.0	-
Acenaphthene	20	200	0.13 U	0.16 I	0.13 U	0.13 U	0.17 I	-
Acenaphthylene	210	2100	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-
Anthracene	2100	21000	0.080 U	0.080 U	0.080 U	0.080 U	0.088	-
Benzo(a)anthracene	0.05	0.5	0.029 U	0.029 U	0.029 U	0.029 U	0.029 U	-
Benzo(a)pyrene	0.2	2	0.023 U	0.023 U	0.023 U	0.023 U	0.023 U	-
Benzo(b)fluoranthene	0.05	0.5	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	-
Benzo(g,h,i)perylene	210	2100	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	-
Benzo(k)fluoranthene	0.5	5	0.082 U	0.082 U	0.082 U	0.082 U	0.082 U	-
Chrysene	4.8	48	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	-
Dibenz(a,h)anthracene	0.005	0.05	**0.047 U**	**0.047 U**	**0.047 U**	**0.047 U**	**0.047 U**	-
Fluoranthene	280	2800	0.084 U	0.084 U	0.084 U	0.084 U	0.084 U	-
Fluorene	280	2800	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	-
Indeno(1,2,3-cd)pyrene	0.05	0.5	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	-
Naphthalene	14	140	0.15 U	0.15 U	0.15 U	0.15 U	13	-
Phenanthrene	210	2100	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	-
Pyrene	210	2100	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	-

Notes: J4 – The sample matrix interfered with the ability to make an accurate determination
GCTL - Groundwater Cleanup Target Level, 1 = Chapter 62-777 FAC GCTLs reported in µg/L, Bold indicates concentration exceeds GCTL
NADC - Natural Attenuation Default Concentration, Shade indicates concentration exceeds NADC
U - The compound was analyzed for but not detected
I - The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit

Table 3-2
Field Parameter Measurements
JETC GW Field Monitoring
Option Year 1, 4th Quarter 2007

Sample Date 4/18-19/2007	Groundwater					
Well	**pH**	**Conductivity (µS)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temperature (ºC)**	**ORP (mV)**
NG-24S	5.84	155	10	0.81	24.04	122.1
CEF-334-32S	4.30	73	3	0.54	22.75	-149.0
CEF-334-33S	4.42	106	90	0.70	23.30	186.8
CEF-334-02S	6.64	555	N/A	0.39	21.13	-97.3
CEF-811-08S	5.48	89	N/A	**1.74**	20.80	72.5
CEF-334-01S	6.05	289	N/A	0.53	19.13	39.2
CEF-811-06S	5.15	113	N/A	0.88	21.37	107.3
CEF-334-02SA	5.65	125	140	0.40	22.85	-97.3
CEF-811-17S	6.23	527	12	0.70	20.40	33.3
CEF-811-16SR	5.73	205	16	0.45	20.44	34.8
CEF-334-34S	5.87	196	86	0.65	20.96	49.0
CEF-339-29S	6.25	350	3	0.40	21.55	125.7
CEF-339-30S	6.17	184	N/A	0.96	21.52	38.5
CEF-339-28S	6.38	644	10	0.59	21.33	115.5
CEF-811-18S	5.98	270	4	0.49	21.62	-157.2

Note: All measurements taken using direct reading instruments in the field.
µS – micro Siemens
NTU – nephelomatic turbidity units
Mg/L – milligrams per liter
°C – degrees Celsius
ORP – oxygen reducing potential
mV - millivolts
Shade indicates ORP values exceeding 50mV
Bold indicates DO values exceeding 1 mg/L
NM – Not Measured

4.0 Conclusions and Recommendations

The JETC AS systems operated with approximately 80% downtime during the monitoring period with a resulting operational efficiency of percent of 19.57% which is down from the previous quarter efficiency and significantly down from the overall efficiency of approximately 33% during the entire contract term.

JETC has shown increased in operational efficiency as compared to the building 271 Air Sparge System. During most visits to the site the JETC system was running upon arrival. At one Site visit, an airline leak similar in location to the one just repaired at Bldg. 271 was observed just inside the fenced boundary of the system compound, near the coupling that changes the airline from 1" galvanized to 2" Sched 80 PVC. It is suspected that a similar failed fitting at a depth of up to 4' below grade. The result of this leak is that pressure in the lines has reduced such that minimal air flow is being achieved. The condensate tank is currently 50% full.

None of the wells during the current quarterly report identified concentrations that exceeded the NADSCs at a detectable limit, however, CEF-811-18S which had previously reported an exceeded level above GCTLs for Naphthalene and Benzene, continues to show slightly elevated GCTLs for Benzene only. No exceeded GCTL for Naphthalene has been reported for the past two quarterly reports. The DO measurements above 1 milligram per liter (mg/ L) were decreased from previously reported 3 of the 15 monitoring wells to only 1 of the 15 monitoring wells during the fourth quarter levels. Oxidation-reduction potential (ORP) measurements greater than 50 millivolts maintained in 6 of the 15 monitoring wells as previously reported.

As compared to the previous quarterly reports, overall, the groundwater analytical concentrations have decreased and similar to only one well detected levels were reported to slightly exceed GCTLs for Benzene only, but no exceeded levels for NADSCs for the entire Option Year 1 of this contract. This indicates that the air sparge system is reducing the groundwater contamination at this site.

Per the recommendation and instruction of Mark Davidson in partnership with the State department, the JETC Air Sparge System was directed to be shut off as the terms of the intended results to decrease groundwater contamination has been accomplished. This directive was given via email on April 27, 2007, and final electric power was shut off for the JETC site on May 16, 2007.

Although no Air Sparge will be active during the first quarter of the 2007-2008 Option Year 2 Contract Term, one three month sampling pos shut down will occur in August 2007 to verify that groundwater levels remain or drop below GCTLs and NADSCs.

5.0 References

ESA Environmental Specialists, Inc. June 2005. Cecil Field Workplan. NAS Cecil Field, Jacksonville, Florida.

ESA Environmental Specialists, Inc. June 2005. Cecil Field Health and Safety Plan. NAS Cecil Field, Jacksonville, FL.

CH2MHILL Constructors, Inc. April 2001. Limited Closure Assessment Report, Oil/Water Separator Removal. NAS Cecil Field, Jacksonville, Florida.

CH2MHILL Constructors, Inc. August 2003. Work Plan Addendum No. 18, Work Plan Addendum No. 18 Installation of Air Sparging Systems at the Jet Engine Test Cell and Building 271, Naval Air Station Cecil Field, Jacksonville, Florida.

APPENDIX A
Analytical Results

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April 27, 2007

Bill Kelly
8761 Perimeter Park Boulevard,
Jacksonville, FL 32216

RE: Workorder: J0754755 Cecil Field-Jet-C

Dear Bill Kelly:

Enclosed are the analytical results for sample(s) received by the laboratory on Thursday, April 19, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody and results pertain only to these samples.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Paul Gunsaulies
pgunsaulies@aellab.com

Enclosures

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SAMPLE SUMMARY

Workorder: J0754755 Cecil Field-Jet-C

Lab ID	Sample ID	Matrix	Date Collected	Date Received
J0754755001	NG-24S	Water	4/18/2007 13:50	4/19/2007 13:20
J0754755002	CEF-334-32S	Water	4/18/2007 15:03	4/19/2007 13:20
J0754755003	CEF-334-33S	Water	4/18/2007 13:06	4/19/2007 13:20
J0754755004	CEF-334-O2SA	Water	4/18/2007 15:46	4/19/2007 13:20
J0754755005	CEF-811-18S	Water	4/18/2007 16:16	4/19/2007 13:20
J0754755006	CEF-334-34S	Water	4/18/2007 16:47	4/19/2007 13:20
J0754755007	Equipment Blank	Water	4/18/2007 12:44	4/19/2007 13:20
J0754755008	Dup-1 NG-24S	Water	4/18/2007 12:44	4/19/2007 13:20
J0754755009	CEF 811-17S	Water	4/19/2007 08:18	4/19/2007 13:20
J0754755010	CEF 811-16SR	Water	4/19/2007 08:50	4/19/2007 13:20
J0754755011	CEF 339-29S	Water	4/19/2007 07:10	4/19/2007 13:20
J0754755012	CEF 339-28S	Water	4/19/2007 07:44	4/19/2007 13:20
J0754755013	Trip Blank	Water	4/19/2007 07:44	4/19/2007 13:20

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755001** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **NG-24S** Date Collected: 4/18/2007 13:50
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**0.15**	**ug/L**	**U**	**1**	0.50	0.15	4/23/2007 18:08	TH	J
2-Methylnaphthalene	**0.18**	**ug/L**	**U**	**1**	0.50	0.18	4/23/2007 18:08	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 18:08	TH	J
Acenaphthene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 18:08	TH	J
Fluorene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 18:08	TH	J
Anthracene	**0.080**	**ug/L**	**U**	**1**	0.50	0.080	4/23/2007 18:08	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 18:08	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 18:08	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 18:08	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 18:08	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 18:08	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 18:08	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 18:08	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 18:08	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 18:08	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 18:08	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 18:08	TH	J
Decafluorobiphenyl (S)	**76**	**%**		**1**	21-122		4/23/2007 18:08	TH	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 18:08	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO								
TPH	**280**	**ug/L**	**U**	**1**	850	280	4/24/2007 20:54	AT	J
o-Terphenyl (S)	**91**	**%**		**1**	82-142		4/24/2007 20:54	AT	
Nonatricontane-C39 (S)	**76**	**%**		**1**	42-193		4/24/2007 20:54	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/22/2007 17:23	RB	
Benzene	**0.21**	**ug/L**	**U**	**1**	0.84	0.21	4/22/2007 17:23	RB	J
Toluene	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 17:23	RB	J

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755001** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **NG-24S** Date Collected: 4/18/2007 13:50
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Ethylbenzene	**0.17**	**ug/L**	**U**	**1**	0.68	0.17	4/22/2007 17:23	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/22/2007 17:23	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 17:23	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/22/2007 17:23	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/22/2007 17:23	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/22/2007 17:23	RB	J
1-Bromo-4-chlorobenzene (S)	**98**	**%**		**1**	75-119		4/22/2007 17:23	RB	

Lab ID: **J0754755002** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF-334-32S** Date Collected: 4/18/2007 15:03
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**0.15**	**ug/L**	**U**	**1**	0.50	0.15	4/23/2007 18:34	TH	J
2-Methylnaphthalene	**0.18**	**ug/L**	**U**	**1**	0.50	0.18	4/23/2007 18:34	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 18:34	TH	J
Acenaphthene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 18:34	TH	J
Fluorene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 18:34	TH	J
Anthracene	**0.080**	**ug/L**	**U**	**1**	0.50	0.080	4/23/2007 18:34	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 18:34	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 18:34	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 18:34	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 18:34	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 18:34	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 18:34	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 18:34	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 18:34	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 18:34	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 18:34	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 18:34	TH	J
Decafluorobiphenyl (S)	**77**	**%**		**1**	21-122		4/23/2007 18:34	TH	

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755002** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF-334-32S** Date Collected: 4/18/2007 15:03
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 18:34	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO								
TPH	**600**	**ug/L**	**I**	**1**	850	280	4/24/2007 21:36	AT	J
o-Terphenyl (S)	**92**	**%**		**1**	82-142		4/24/2007 21:36	AT	
Nonatricontane-C39 (S)	**73**	**%**		**1**	42-193		4/24/2007 21:36	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/22/2007 18:08	RB	
Benzene	**0.21**	**ug/L**	**U**	**1**	0.84	0.21	4/22/2007 18:08	RB	J
Toluene	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 18:08	RB	J
Ethylbenzene	**0.17**	**ug/L**	**U**	**1**	0.68	0.17	4/22/2007 18:08	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/22/2007 18:08	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 18:08	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/22/2007 18:08	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/22/2007 18:08	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/22/2007 18:08	RB	J
1-Bromo-4-chlorobenzene (S)	**90**	**%**		**1**	75-119		4/22/2007 18:08	RB	

Lab ID: **J0754755003** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF-334-33S** Date Collected: 4/18/2007 13:06
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**0.15**	**ug/L**	**U**	**1**	0.50	0.15	4/23/2007 19:01	TH	J
2-Methylnaphthalene	**0.18**	**ug/L**	**U**	**1**	0.50	0.18	4/23/2007 19:01	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 19:01	TH	J

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755003** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF-334-33S** Date Collected: 4/18/2007 13:06
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Acenaphthene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 19:01	TH	J
Fluorene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 19:01	TH	J
Anthracene	**0.080**	**ug/L**	**U**	**1**	0.50	0.080	4/23/2007 19:01	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 19:01	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 19:01	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 19:01	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 19:01	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 19:01	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 19:01	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 19:01	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 19:01	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 19:01	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 19:01	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 19:01	TH	J
Decafluorobiphenyl (S)	**80**	**%**		**1**	21-122		4/23/2007 19:01	TH	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 19:01	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO								
TPH	**280**	**ug/L**	**U**	**1**	850	280	4/24/2007 22:15	AT	J
o-Terphenyl (S)	**93**	**%**		**1**	82-142		4/24/2007 22:15	AT	
Nonatricontane-C39 (S)	**78**	**%**		**1**	42-193		4/24/2007 22:15	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/22/2007 21:09	RB	
Benzene	**0.21**	**ug/L**	**U**	**1**	0.84	0.21	4/22/2007 21:09	RB	J
Toluene	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 21:09	RB	J
Ethylbenzene	**0.17**	**ug/L**	**U**	**1**	0.68	0.17	4/22/2007 21:09	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/22/2007 21:09	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 21:09	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/22/2007 21:09	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/22/2007 21:09	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/22/2007 21:09	RB	J
1-Bromo-4-chlorobenzene (S)	**100**	**%**		**1**	75-119		4/22/2007 21:09	RB	

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755004** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF-334-O2SA** Date Collected: 4/18/2007 15:46
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**0.15**	**ug/L**	**U**	**1**	0.50	0.15	4/23/2007 19:28	TH	J
2-Methylnaphthalene	**0.18**	**ug/L**	**U**	**1**	0.50	0.18	4/23/2007 19:28	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 19:28	TH	J
Acenaphthene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 19:28	TH	J
Fluorene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 19:28	TH	J
Anthracene	**0.080**	**ug/L**	**U**	**1**	0.50	0.080	4/23/2007 19:28	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 19:28	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 19:28	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 19:28	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 19:28	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 19:28	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 19:28	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 19:28	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 19:28	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 19:28	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 19:28	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 19:28	TH	J
Decafluorobiphenyl (S)	**72**	**%**		**1**	21-122		4/23/2007 19:28	TH	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 19:28	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO								
TPH	**470**	**ug/L**	**I**	**1**	850	280	4/24/2007 22:57	AT	J
o-Terphenyl (S)	**98**	**%**		**1**	82-142		4/24/2007 22:57	AT	
Nonatricontane-C39 (S)	**76**	**%**		**1**	42-193		4/24/2007 22:57	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/22/2007 21:54	RB	
Benzene	**0.21**	**ug/L**	**U**	**1**	0.84	0.21	4/22/2007 21:54	RB	J
Toluene	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 21:54	RB	J

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755004** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF-334-O2SA** Date Collected: 4/18/2007 15:46
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Ethylbenzene	**0.17**	**ug/L**	**U**	**1**	0.68	0.17	4/22/2007 21:54	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/22/2007 21:54	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 21:54	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/22/2007 21:54	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/22/2007 21:54	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/22/2007 21:54	RB	J
1-Bromo-4-chlorobenzene (S)	**94**	**%**		**1**	75-119		4/22/2007 21:54	RB	

Lab ID: **J0754755005** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF-811-18S** Date Collected: 4/18/2007 16:16
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**5.5**	**ug/L**		**1**	0.50	0.15	4/23/2007 19:55	TH	J
2-Methylnaphthalene	**1.3**	**ug/L**		**1**	0.50	0.18	4/23/2007 19:55	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 19:55	TH	J
Acenaphthene	**0.15**	**ug/L**	**I**	**1**	0.50	0.13	4/23/2007 19:55	TH	J
Fluorene	**0.64**	**ug/L**		**1**	0.50	0.10	4/23/2007 19:55	TH	J
Anthracene	**0.080**	**ug/L**	**U**	**1**	0.50	0.080	4/23/2007 19:55	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 19:55	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 19:55	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 19:55	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 19:55	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 19:55	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 19:55	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 19:55	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 19:55	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 19:55	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 19:55	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 19:55	TH	J
Decafluorobiphenyl (S)	**81**	**%**		**1**	21-122		4/23/2007 19:55	TH	

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755005** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF-811-18S** Date Collected: 4/18/2007 16:16
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**6.1**	**ug/L**		**1**	0.50	0.12	4/23/2007 19:55	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO								
TPH	**7400**	**ug/L**		**5**	4200	1400	4/25/2007 20:47	AT	J
o-Terphenyl (S)	**216**	**%**		**5**	82-142		4/25/2007 20:47	AT	
Nonatricontane-C39 (S)	**67**	**%**		**5**	42-193		4/25/2007 20:47	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/22/2007 22:39	RB	
Benzene	**1.9**	**ug/L**		**1**	0.84	0.21	4/22/2007 22:39	RB	J
Toluene	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 22:39	RB	J
Ethylbenzene	**4.2**	**ug/L**		**1**	0.68	0.17	4/22/2007 22:39	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/22/2007 22:39	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 22:39	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/22/2007 22:39	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/22/2007 22:39	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/22/2007 22:39	RB	J
1-Bromo-4-chlorobenzene (S)	**112**	**%**		**1**	75-119		4/22/2007 22:39	RB	

Lab ID: **J0754755006** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF-334-34S** Date Collected: 4/18/2007 16:47
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**0.15**	**ug/L**	**U**	**1**	0.50	0.15	4/23/2007 20:21	TH	J
2-Methylnaphthalene	**0.18**	**ug/L**	**U**	**1**	0.50	0.18	4/23/2007 20:21	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 20:21	TH	J

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755006** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF-334-34S** Date Collected: 4/18/2007 16:47
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Acenaphthene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 20:21	TH	J
Fluorene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 20:21	TH	J
Anthracene	**0.080**	**ug/L**	**U**	**1**	0.50	0.080	4/23/2007 20:21	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 20:21	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 20:21	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 20:21	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 20:21	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 20:21	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 20:21	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 20:21	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 20:21	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 20:21	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 20:21	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 20:21	TH	J
Decafluorobiphenyl (S)	**78**	**%**		**1**	21-122		4/23/2007 20:21	TH	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 20:21	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO								
TPH	**1200**	**ug/L**		**1**	850	280	4/25/2007 02:14	AT	J
o-Terphenyl (S)	**96**	**%**		**1**	82-142		4/25/2007 02:14	AT	
Nonatricontane-C39 (S)	**82**	**%**		**1**	42-193		4/25/2007 02:14	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/22/2007 23:24	RB	
Benzene	**0.21**	**ug/L**	**U**	**1**	0.84	0.21	4/22/2007 23:24	RB	J
Toluene	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 23:24	RB	J
Ethylbenzene	**0.17**	**ug/L**	**U**	**1**	0.68	0.17	4/22/2007 23:24	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/22/2007 23:24	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/22/2007 23:24	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/22/2007 23:24	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/22/2007 23:24	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/22/2007 23:24	RB	J
1-Bromo-4-chlorobenzene (S)	**100**	**%**		**1**	75-119		4/22/2007 23:24	RB	

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755007** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **Equipment Blank** Date Collected: 4/18/2007 12:44
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**0.15**	**ug/L**	**U**	**1**	0.50	0.15	4/23/2007 20:48	TH	J
2-Methylnaphthalene	**0.18**	**ug/L**	**U**	**1**	0.50	0.18	4/23/2007 20:48	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 20:48	TH	J
Acenaphthene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 20:48	TH	J
Fluorene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 20:48	TH	J
Anthracene	**0.080**	**ug/L**	**U**	**1**	0.50	0.080	4/23/2007 20:48	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 20:48	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 20:48	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 20:48	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 20:48	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 20:48	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 20:48	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 20:48	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 20:48	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 20:48	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 20:48	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 20:48	TH	J
Decafluorobiphenyl (S)	**74**	**%**		**1**	21-122		4/23/2007 20:48	TH	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 20:48	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO								
TPH	**280**	**ug/L**	**U**	**1**	850	280	4/25/2007 02:54	AT	J
o-Terphenyl (S)	**100**	**%**		**1**	82-142		4/25/2007 02:54	AT	
Nonatricontane-C39 (S)	**77**	**%**		**1**	42-193		4/25/2007 02:54	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/23/2007 00:09	RB	
Benzene	**0.21**	**ug/L**	**U**	**1**	0.84	0.21	4/23/2007 00:09	RB	J
Toluene	**0.78**	**ug/L**	**I**	**1**	0.92	0.23	4/23/2007 00:09	RB	J

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755007** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **Equipment Blank** Date Collected: 4/18/2007 12:44
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Ethylbenzene	**0.17**	**ug/L**	**U**	**1**	0.68	0.17	4/23/2007 00:09	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/23/2007 00:09	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/23/2007 00:09	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/23/2007 00:09	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/23/2007 00:09	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/23/2007 00:09	RB	J
1-Bromo-4-chlorobenzene (S)	**98**	**%**		**1**	75-119		4/23/2007 00:09	RB	

Lab ID: **J0754755008** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **Dup-1 NG-24S** Date Collected: 4/18/2007 12:44
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**0.15**	**ug/L**	**U**	**1**	0.50	0.15	4/23/2007 21:15	TH	J
2-Methylnaphthalene	**0.18**	**ug/L**	**U**	**1**	0.50	0.18	4/23/2007 21:15	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 21:15	TH	J
Acenaphthene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 21:15	TH	J
Fluorene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 21:15	TH	J
Anthracene	**0.080**	**ug/L**	**U**	**1**	0.50	0.080	4/23/2007 21:15	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 21:15	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 21:15	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 21:15	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 21:15	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 21:15	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 21:15	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 21:15	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 21:15	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 21:15	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 21:15	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 21:15	TH	J
Decafluorobiphenyl (S)	**78**	**%**		**1**	21-122		4/23/2007 21:15	TH	

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755008** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **Dup-1 NG-24S** Date Collected: 4/18/2007 12:44
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 21:15	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO								
TPH	**280**	**ug/L**	**U**	**1**	850	280	4/25/2007 03:36	AT	J
o-Terphenyl (S)	**95**	**%**		**1**	82-142		4/25/2007 03:36	AT	
Nonatricontane-C39 (S)	**76**	**%**		**1**	42-193		4/25/2007 03:36	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/23/2007 00:54	RB	
Benzene	**0.21**	**ug/L**	**U**	**1**	0.84	0.21	4/23/2007 00:54	RB	J
Toluene	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/23/2007 00:54	RB	J
Ethylbenzene	**0.17**	**ug/L**	**U**	**1**	0.68	0.17	4/23/2007 00:54	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/23/2007 00:54	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/23/2007 00:54	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/23/2007 00:54	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/23/2007 00:54	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/23/2007 00:54	RB	J
1-Bromo-4-chlorobenzene (S)	**98**	**%**		**1**	75-119		4/23/2007 00:54	RB	

Lab ID: **J0754755009** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF 811-17S** Date Collected: 4/19/2007 08:18
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**0.15**	**ug/L**	**U**	**1**	0.50	0.15	4/23/2007 21:41	TH	J
2-Methylnaphthalene	**0.18**	**ug/L**	**U**	**1**	0.50	0.18	4/23/2007 21:41	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 21:41	TH	J

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755009** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF 811-17S** Date Collected: 4/19/2007 08:18
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Acenaphthene	**0.16**	**ug/L**	**I**	**1**	0.50	0.13	4/23/2007 21:41	TH	J
Fluorene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 21:41	TH	J
Anthracene	**0.080**	**ug/L**	**U**	**1**	0.50	0.080	4/23/2007 21:41	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 21:41	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 21:41	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 21:41	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 21:41	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 21:41	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 21:41	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 21:41	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 21:41	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 21:41	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 21:41	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 21:41	TH	J
Decafluorobiphenyl (S)	**77**	**%**		**1**	21-122		4/23/2007 21:41	TH	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 21:41	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO								
TPH	**1600**	**ug/L**		**1**	850	280	4/25/2007 04:17	AT	J
o-Terphenyl (S)	**90**	**%**		**1**	82-142		4/25/2007 04:17	AT	
Nonatricontane-C39 (S)	**82**	**%**		**1**	42-193		4/25/2007 04:17	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/23/2007 01:40	RB	
Benzene	**0.21**	**ug/L**	**U**	**1**	0.84	0.21	4/23/2007 01:40	RB	J
Toluene	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/23/2007 01:40	RB	J
Ethylbenzene	**0.76**	**ug/L**		**1**	0.68	0.17	4/23/2007 01:40	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/23/2007 01:40	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/23/2007 01:40	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/23/2007 01:40	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/23/2007 01:40	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/23/2007 01:40	RB	J

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755010** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF 811-16SR** Date Collected: 4/19/2007 08:50
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**0.15**	**ug/L**	**U**	**1**	0.50	0.15	4/23/2007 22:08	TH	J
2-Methylnaphthalene	**0.18**	**ug/L**	**U**	**1**	0.50	0.18	4/23/2007 22:08	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 22:08	TH	J
Acenaphthene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 22:08	TH	J
Fluorene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 22:08	TH	J
Anthracene	**0.080**	**ug/L**	**U**	**1**	0.50	0.080	4/23/2007 22:08	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 22:08	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 22:08	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 22:08	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 22:08	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 22:08	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 22:08	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 22:08	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 22:08	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 22:08	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 22:08	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 22:08	TH	J
Decafluorobiphenyl (S)	**79**	**%**		**1**	21-122		4/23/2007 22:08	TH	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 22:08	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO								
TPH	**280**	**ug/L**	**U**	**1**	850	280	4/25/2007 04:59	AT	J
o-Terphenyl (S)	**86**	**%**		**1**	82-142		4/25/2007 04:59	AT	
Nonatricontane-C39 (S)	**74**	**%**		**1**	42-193		4/25/2007 04:59	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**1.0**	**ug/L**	**U**	**3**	4.2	1.0	4/23/2007 02:25	RB	
Benzene	**0.63**	**ug/L**	**U**	**3**	2.5	0.63	4/23/2007 02:25	RB	J
Toluene	**0.69**	**ug/L**	**U**	**3**	2.8	0.69	4/23/2007 02:25	RB	J

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755010** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF 811-16SR** Date Collected: 4/19/2007 08:50
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Ethylbenzene	**0.51**	**ug/L**	**U**	**3**	2.0	0.51	4/23/2007 02:25	RB	J
Xylene-mp	**1.2**	**ug/L**	**U**	**3**	4.8	1.2	4/23/2007 02:25	RB	
Xylene-o	**0.69**	**ug/L**	**U**	**3**	2.8	0.69	4/23/2007 02:25	RB	
1,3-Dichlorobenzene	**0.66**	**ug/L**	**U**	**3**	2.6	0.66	4/23/2007 02:25	RB	J
1,4-Dichlorobenzene	**0.81**	**ug/L**	**U**	**3**	3.2	0.81	4/23/2007 02:25	RB	J
1,2-Dichlorobenzene	**0.78**	**ug/L**	**U**	**3**	3.1	0.78	4/23/2007 02:25	RB	J
1-Bromo-4-chlorobenzene (S)	**100**	**%**		**3**	75-119		4/23/2007 02:25	RB	

Lab ID: **J0754755011** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF 339-29S** Date Collected: 4/19/2007 07:10
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**0.15**	**ug/L**	**U**	**1**	0.50	0.15	4/23/2007 22:35	TH	J
2-Methylnaphthalene	**0.18**	**ug/L**	**U**	**1**	0.50	0.18	4/23/2007 22:35	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 22:35	TH	J
Acenaphthene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 22:35	TH	J
Fluorene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 22:35	TH	J
Anthracene	**0.080**	**ug/L**	**U**	**1**	0.50	0.080	4/23/2007 22:35	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 22:35	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 22:35	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 22:35	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 22:35	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 22:35	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 22:35	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 22:35	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 22:35	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 22:35	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 22:35	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 22:35	TH	J
Decafluorobiphenyl (S)	**69**	**%**		**1**	21-122		4/23/2007 22:35	TH	

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755011** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF 339-29S** Date Collected: 4/19/2007 07:10
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C								
	Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 22:35	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO								
	Analytical Method: FL-PRO								
TPH	**280**	**ug/L**	**U**	**1**	850	280	4/25/2007 05:41	AT	J
o-Terphenyl (S)	**89**	**%**		**1**	82-142		4/25/2007 05:41	AT	
Nonatricontane-C39 (S)	**81**	**%**		**1**	42-193		4/25/2007 05:41	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B								
	Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/23/2007 03:10	RB	
Benzene	**0.21**	**ug/L**	**U**	**1**	0.84	0.21	4/23/2007 03:10	RB	J
Toluene	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/23/2007 03:10	RB	J
Ethylbenzene	**0.17**	**ug/L**	**U**	**1**	0.68	0.17	4/23/2007 03:10	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/23/2007 03:10	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/23/2007 03:10	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/23/2007 03:10	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/23/2007 03:10	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/23/2007 03:10	RB	J
1-Bromo-4-chlorobenzene (S)	**98**	**%**		**1**	75-119		4/23/2007 03:10	RB	

Lab ID: **J0754755012** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF 339-28S** Date Collected: 4/19/2007 07:44
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
SEMIVOLATILES									
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C								
	Analytical Method: SW-846 8270C (SIM)								
Naphthalene	**13**	**ug/L**		**1**	0.50	0.15	4/23/2007 23:02	TH	J
2-Methylnaphthalene	**2.0**	**ug/L**		**1**	0.50	0.18	4/23/2007 23:02	TH	J
Acenaphthylene	**0.13**	**ug/L**	**U**	**1**	0.50	0.13	4/23/2007 23:02	TH	J

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755012** Date Received: 4/19/2007 13:20 Matrix: Water
Sample ID: **CEF 339-28S** Date Collected: 4/19/2007 07:44
Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
Acenaphthene	**0.17**	**ug/L**	**I**	**1**	0.50	0.13	4/23/2007 23:02	TH	J
Fluorene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 23:02	TH	J
Anthracene	**0.088**	**ug/L**	**I**	**1**	0.50	0.080	4/23/2007 23:02	TH	J
Phenanthrene	**0.10**	**ug/L**	**U**	**1**	0.50	0.10	4/23/2007 23:02	TH	J
Fluoranthene	**0.084**	**ug/L**	**U**	**1**	0.50	0.084	4/23/2007 23:02	TH	J
Pyrene	**0.12**	**ug/L**	**U**	**1**	0.50	0.12	4/23/2007 23:02	TH	J
Benzo[a]anthracene	**0.029**	**ug/L**	**U**	**1**	0.20	0.029	4/23/2007 23:02	TH	J
Chrysene	**0.060**	**ug/L**	**U**	**1**	0.20	0.060	4/23/2007 23:02	TH	J
Benzo[b]fluoranthene	**0.025**	**ug/L**	**U**	**1**	0.20	0.025	4/23/2007 23:02	TH	J
Benzo[k]fluoranthene	**0.082**	**ug/L**	**U**	**1**	0.50	0.082	4/23/2007 23:02	TH	J
Benzo[a]pyrene	**0.023**	**ug/L**	**U**	**1**	0.20	0.023	4/23/2007 23:02	TH	J
Indeno(1,2,3-cd)pyrene	**0.039**	**ug/L**	**U**	**1**	0.20	0.039	4/23/2007 23:02	TH	J
Dibenz[a,h]anthracene	**0.047**	**ug/L**	**U**	**1**	0.20	0.047	4/23/2007 23:02	TH	J
Benzo[g,h,i]perylene	**0.092**	**ug/L**	**U**	**1**	0.50	0.092	4/23/2007 23:02	TH	J
Decafluorobiphenyl (S)	**73**	**%**		**1**	21-122		4/23/2007 23:02	TH	
Analysis Desc: 8270C-SIM Analysis, Water	Preparation Method: SW-846 3510C Analytical Method: AEL SVOC-006 Rev #4/GC-MS								
1-Methylnaphthalene	**2.9**	**ug/L**		**1**	0.50	0.12	4/23/2007 23:02	TH	J
Analysis Desc: Flo-Pro Analysis, Water	Preparation Method: FL-PRO Analytical Method: FL-PRO								
TPH	**4900**	**ug/L**		**1**	850	280	4/25/2007 06:23	AT	J
o-Terphenyl (S)	**99**	**%**		**1**	82-142		4/25/2007 06:23	AT	
Nonatricontane-C39 (S)	**91**	**%**		**1**	42-193		4/25/2007 06:23	AT	
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/24/2007 04:17	RB	
Benzene	**0.21**	**ug/L**	**U**	**1**	0.84	0.21	4/24/2007 04:17	RB	J
Toluene	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/24/2007 04:17	RB	J
Ethylbenzene	**0.17**	**ug/L**	**U**	**1**	0.68	0.17	4/24/2007 04:17	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/24/2007 04:17	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/24/2007 04:17	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/24/2007 04:17	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/24/2007 04:17	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/24/2007 04:17	RB	J
1-Bromo-4-chlorobenzene (S)	**114**	**%**		**1**	75-119		4/24/2007 04:17	RB	

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ANALYTICAL RESULTS

Workorder: J0754755 Cecil Field-Jet-C

Lab ID: **J0754755013** Date Received: 4/19/2007 13:20 Matrix: Water

Sample ID: **Trip Blank** Date Collected: 4/19/2007 07:44

Sample Location

Parameters	Results	Units	Qual	DF	Adjusted PQL	Adjusted MDL	Analyzed	By	Lab
VOLATILES									
Analysis Desc: 8021B Analysis, Water	Preparation Method: SW-846 5030B								
	Analytical Method: SW-846 8021B								
Methyl tert-butyl Ether (MTBE)	**0.35**	**ug/L**	**U**	**1**	1.4	0.35	4/23/2007 04:41	RB	
Benzene	**0.21**	**ug/L**	**U**	**1**	0.84	0.21	4/23/2007 04:41	RB	J
Toluene	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/23/2007 04:41	RB	J
Ethylbenzene	**0.17**	**ug/L**	**U**	**1**	0.68	0.17	4/23/2007 04:41	RB	J
Xylene-mp	**0.40**	**ug/L**	**U**	**1**	1.6	0.40	4/23/2007 04:41	RB	
Xylene-o	**0.23**	**ug/L**	**U**	**1**	0.92	0.23	4/23/2007 04:41	RB	
1,3-Dichlorobenzene	**0.22**	**ug/L**	**U**	**1**	0.88	0.22	4/23/2007 04:41	RB	J
1,4-Dichlorobenzene	**0.27**	**ug/L**	**U**	**1**	1.1	0.27	4/23/2007 04:41	RB	J
1,2-Dichlorobenzene	**0.26**	**ug/L**	**U**	**1**	1.0	0.26	4/23/2007 04:41	RB	J
1-Bromo-4-chlorobenzene (S)	**94**	**%**		**1**	75-119		4/23/2007 04:41	RB	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: J0754755 Cecil Field-Jet-C

PARAMETER QUALIFIERS

U The compound was analyzed for but not detected.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

LAB QUALIFIERS

J DOH Certification #E82574(AEL-JAX)(FL NELAC Certification)

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QUALITY CONTROL DATA

Workorder: J0754755 Cecil Field-Jet-C

QC Batch:	GCVj/1029		Analysis Method:	SW-846 8021B		
QC Batch Method:	SW-846 5030B		Prepared:	4/22/2007 07:36	By:	RB
Associated Lab Samples:	J0754755001	J0754755002	J0754755003	J0754755004	J0754755005	J0754755006
	J0754755007	J0754755008	J0754755009	J0754755010	J0754755011	J0754755013

METHOD BLANK: 12458

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl tert-butyl Ether (MTBE)	ug/L	0.35U	0.35	
Benzene	ug/L	0.21U	0.21	
Toluene	ug/L	0.23U	0.23	
Ethylbenzene	ug/L	0.17U	0.17	
Xylene-mp	ug/L	0.40U	0.40	
Xylene-o	ug/L	0.23U	0.23	
1,3-Dichlorobenzene	ug/L	0.22U	0.22	
1,4-Dichlorobenzene	ug/L	0.27U	0.27	
1,2-Dichlorobenzene	ug/L	0.26U	0.26	
1-Bromo-4-chlorobenzene (S)	%	100	75-119	

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QUALITY CONTROL DATA

Workorder: J0754755 Cecil Field-Jet-C

QC Batch:	EXTj/1085	Analysis Method:	SW-846 8270C (SIM)		
QC Batch Method:	SW-846 3510C	Prepared:	4/23/2007 00:00	By:	XT

Associated Lab Samples: J0754754001 J0754754002 J0754754003 J0754754004 J0754754005 J0754755001 J0754755002 J0754755003 J0754755004 J0754755005 J0754755006 J0754755007 J0754755008 J0754755009 J0754755010 J0754755011 J0754755012

METHOD BLANK: 12631

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Naphthalene	ug/L	0.15U	0.15	
2-Methylnaphthalene	ug/L	0.18U	0.18	
1-Methylnaphthalene	ug/L	0.12U	0.12	
Acenaphthylene	ug/L	0.13U	0.13	
Acenaphthene	ug/L	0.13U	0.13	
Fluorene	ug/L	0.10U	0.10	
Anthracene	ug/L	0.080U	0.080	
Phenanthrene	ug/L	0.10U	0.10	
Fluoranthene	ug/L	0.084U	0.084	
Pyrene	ug/L	0.12U	0.12	
Benzo[a]anthracene	ug/L	0.029U	0.029	
Chrysene	ug/L	0.060U	0.060	
Benzo[b]fluoranthene	ug/L	0.025U	0.025	
Benzo[k]fluoranthene	ug/L	0.082U	0.082	
Benzo[a]pyrene	ug/L	0.023U	0.023	
Indeno(1,2,3-cd)pyrene	ug/L	0.039U	0.039	
Dibenz[a,h]anthracene	ug/L	0.047U	0.047	
Benzo[g,h,i]perylene	ug/L	0.092U	0.092	
Decafluorobiphenyl (S)	%	88	21-122	

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QUALITY CONTROL DATA

Workorder: J0754755 Cecil Field-Jet-C

QC Batch:	EXTj/1088		Analysis Method:	FL-PRO		
QC Batch Method:	FL-PRO		Prepared:	4/24/2007 00:00	By:	XT
Associated Lab Samples:	J0754755001	J0754755002	J0754755003	J0754755004	J0754755005	J0754755006
	J0754755007	J0754755008	J0754755009	J0754755010	J0754755011	J0754755012

METHOD BLANK: 13007

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
TPH	ug/L	280U	280	
o-Terphenyl (S)	%	94	82-142	
Nonatricontane-C39 (S)	%	63	42-193	

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QUALITY CONTROL DATA

Workorder: J0754755 Cecil Field-Jet-C

QC Batch:	GCVj/1031		Analysis Method:	SW-846 8021B		
QC Batch Method:	SW-846 5030B		Prepared:	4/23/2007 10:48	By:	RB
Associated Lab Samples:	J0754636001	J0754636002	J0754636003	J0754636004	J0754754001	J0754754002
	J0754754003	J0754754004	J0754754005	J0754755012		

METHOD BLANK: 13853

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Methyl tert-butyl Ether (MTBE)	ug/L	0.35U	0.35	
Benzene	ug/L	0.21U	0.21	
Toluene	ug/L	0.23U	0.23	
Ethylbenzene	ug/L	0.17U	0.17	
Xylene-mp	ug/L	0.40U	0.40	
Xylene-o	ug/L	0.23U	0.23	
1,3-Dichlorobenzene	ug/L	0.22U	0.22	
1,4-Dichlorobenzene	ug/L	0.27U	0.27	
1,2-Dichlorobenzene	ug/L	0.26U	0.26	
1-Bromo-4-chlorobenzene (S)	%	98	75-119	

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J0754755 Cecil Field-Jet-C

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
J0754755001	NG-24S	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755002	CEF-334-32S	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755003	CEF-334-33S	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755004	CEF-334-O2SA	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755005	CEF-811-18S	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755006	CEF-334-34S	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755007	Equipment Blank	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755008	Dup-1 NG-24S	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755009	CEF 811-17S	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755010	CEF 811-16SR	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755011	CEF 339-29S	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755013	Trip Blank	SW-846 5030B	GCVj/1029	SW-846 8021B	GCVj/1030
J0754755001	NG-24S	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755002	CEF-334-32S	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755003	CEF-334-33S	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755004	CEF-334-O2SA	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755005	CEF-811-18S	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755006	CEF-334-34S	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755007	Equipment Blank	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755008	Dup-1 NG-24S	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755009	CEF 811-17S	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755010	CEF 811-16SR	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755011	CEF 339-29S	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755012	CEF 339-28S	SW-846 3510C	EXTj/1085	SW-846 8270C (SIM)	MSSj/1034
J0754755001	NG-24S	FL-PRO	EXTj/1088	FL-PRO	GCSj/1044
J0754755002	CEF-334-32S	FL-PRO	EXTj/1088	FL-PRO	GCSj/1044
J0754755003	CEF-334-33S	FL-PRO	EXTj/1088	FL-PRO	GCSj/1044
J0754755004	CEF-334-O2SA	FL-PRO	EXTj/1088	FL-PRO	GCSj/1044
J0754755006	CEF-334-34S	FL-PRO	EXTj/1088	FL-PRO	GCSj/1044
J0754755007	Equipment Blank	FL-PRO	EXTj/1088	FL-PRO	GCSj/1044
J0754755008	Dup-1 NG-24S	FL-PRO	EXTj/1088	FL-PRO	GCSj/1044
J0754755009	CEF 811-17S	FL-PRO	EXTj/1088	FL-PRO	GCSj/1044

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: J0754755 Cecil Field-Jet-C

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
J0754755010	CEF 811-16SR	FL-PRO	EXTj/1088	FL-PRO	GCSj/1044
J0754755011	CEF 339-29S	FL-PRO	EXTj/1088	FL-PRO	GCSj/1044
J0754755012	CEF 339-28S	FL-PRO	EXTj/1088	FL-PRO	GCSj/1044
J0754755005	CEF-811-18S	FL-PRO	EXTj/1088	FL-PRO	GCSj/1045
J0754755012	CEF 339-28S	SW-846 5030B	GCVj/1031	SW-846 8021B	GCVj/1033

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Advanced Environmental Labs
6601 Southpoint Parkway
Jacksonville, FL 32216

Client: URS Corp **Project name:** Cecil Field JET-C

Date/Time Rcvd: 4-19-07 13:20 **Log-In request number:** J0754755

Received by: JS **Completed by:** CDT

Cooler/Shipping Information:

Courier: ☐ AEL ☑ Client ☐ UPS ☐ Blue Streak ☐ FedEx ☐ Other (describe): _____

Type: ☑ Cooler ☐ Box ☐ Other (describe) _____

Cooler temperature: Identify the cooler and document the temperature blank or ice water measurement

Cooler ID					
Temp (°C)	0				
Temp taken from	☐ Temp blank ☑ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle	☐ Temp blank ☐ Sample bottle
Temp measured with	☑ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):	☐ IR gun S/N 9333779 ☐ Thermometer (enter ID):

Other Information:

Any "NO" responses or discrepancies should be explained in the "Comments" section below.

CHECKLIST	YES	NO	NA
1. Were custody seals on shipping container(s) intact?			✓
2. Were custody papers properly included with samples?	✓		
3. Were custody papers properly filled out (ink, signed, match labels)?	✓		
4. Did all bottles arrive in good condition (unbroken)?	✓		
5. Were all bottle labels complete (sample #, date, signed, analysis, preservatives)?	✓		
6. Did the sample labels agree with the chain of custody?	✓		
7. Were correct bottles used for the tests indicated?	✓		
8. Were proper sample preservation techniques indicated on the label?	✓		
9. Were samples received within holding times?	✓		
10. Were all VOA vials checked for the presence of air bubbles?			✓
11. Were there air bubbles present in the VOA vials?			✓
12. Were samples in direct contact with wet ice? If "No," check one: ☐ NO ICE ☐ BLUE ICE	✓		
13. Was the cooler temperature less than 6°C?	✓		
14. Were sample pHs checked and recorded by Sample control? *NOTE: VOA samples are checked by laboratory analysts.*		✓	
15. Were the sample containers provided by AEL?	✓		
16. Were samples accepted into the laboratory?	✓		

Comments:

Advanced Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

LAB NU

J0754755

☒ Jacksonville: 6601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9354
☐ Tampa: 9610 Princess Palm Avenue, Tampa, FL 33619 • (813) 630-9616 Fax (813) 630-4327
☐ Gainesville: 6821 SW Archer Road, Gainesville, FL 32608 • (352) 367-1500 Fax (352) 367-0050
☐ Orlando: 528 S. North Lake Blvd., Suite 1016, Altamonte Springs, FL 32701 • (407) 937-1594 Fax (407) 937-1597

CLIENT NAME: U.R.S Corporation

PROJECT NAME: Cecil Field - Jet-c

ADDRESS: 8761 Perimeter Pk Blvd. ste-201 Jax. Fla. 32216

P.O. NUMBER / PROJECT NUMBER:

PROJECT LOCATION:

PHONE: 904)645-6233 FAX: 904)645-6243

CONTACT: William Kelly

SAMPLED BY: B. Thompson

TURN AROUND TIME:
☒ STANDARD
☐ RUSH _____

REMARKS / SPECIAL INSTRUCTIONS:
AEL PRE-Log #Q0013

WW= waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge

SAMPLE ID	SAMPLE DESCRIPTION	Grab Composite	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. CONT.	BOTTLE SIZE & TYPE / ANALYSIS REQUIRED: 40mL 8021 Btex+MTBE	1L-AG 8270 SIM PAH	1-LA Pl-Pro - TRPH					LAB NUMBER
							Preserv: HCl	I	S					
	NG-24S	G	4-18-07	13:50	GW	5+4	3	1	1					
	CEF-334-32S		4-18-07	15:03		5	3	1	1					
	CEF-334-33S		4-18-07	13:06		5	3	1	1					
	CEF-334-02SA		4-18-07	15:46		5	3	1	1					
	CEF-811-18S		4-18-07	16:16		5	3	1	1					
	CEF-334-34S		4-18-07	16:47		5	3	1	1					
	EQuip Blank		4-18-07	12:44		5	3	1	1					
	Dup-1 NG-24S		4-18-07	—		5	3	1	1					

I = Ice H = (HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Shipment	Method	Sample Kit	Cooler #		Relinquished by:	Date	Time	Received by:	Date	Time
Out: / /	Via:	RB	D/T	1	B Thompson	4/19/07	13:30	J. Sanz	4/19/07	1320
		AB	D/T	2						
Ret: / /	Via:	Trip Bl.		3						
		☐	☐	4						

Received on ice: ☒ yes ☐ no QC ☐ sent ☐ received

revised 8/01

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☐ Orlando: 528 S. North Lake Blvd., Suite 1016, Altamonte Springs, FL 32701 • (407) 937-1594 Fax (407) 937-1597

CHAIN OF CUSTODY RECORD

LAB N J0754755

CLIENT NAME: U.R.S CORPORATION

ADDRESS: 8761 Perimeter Pk Blvd. Ste-201 Jax Fla. 32216

PHONE: 904)645-6233 FAX: 904)645-6243

CONTACT: William Kelly

PROJECT NAME: Cecil Field Jet-c

P.O. NUMBER / PROJECT NUMBER:

PROJECT LOCATION:

SAMPLED BY: B. Thompson

TURN AROUND TIME: ☒ STANDARD ☐ RUSH

REMARKS / SPECIAL INSTRUCTIONS: AEL Pre-Log # Q0013

BOTTLE SIZE & TYPE	40mL	1L	1L					
ANALYSIS REQUIRED	8021 Btex+MTBE	8270 SIM PAH	A-Pro-TRPH					LAB NUMBER

WW= waste water SW=surface water GW=ground water DW=drinking water OIL A=air SO=soil SL=sludge

SAMPLE ID	SAMPLE DESCRIPTION	Grab Composite	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. CONT.	Preserv								
	CEF 811-17S	G	4-19-07	8:18	GW	5									
	CEF 811-16SR	|	4-19-07	8:50		5									
	CEF 339-29S	|	4-19-07	7:10		5									
	CEF 339-28S	|	4-19-07	7:44		5									

I = Ice H = (HCl) S = (H_2SO_4) N = (HNO_3) T = (Sodium Thiosulfate)

Shipment	Method	Sample Kit	Cooler #		Relinquished by:	Date	Time	Received by:	Date	Time
Out: / /	Via:	RB	D/T	1	[signature]	4-19-07	1330	J. SAAL	4/19/07	1320
		AB	D/T	2						
Ret: / /	Via:	Trip Bl.		3						
		☐	☐	4						

Received on ice: ☒ yes ☐ no QC ☐ sent ☐ received

revised 8/01

APPENDIX B
Field Notes

URS

EQUIPMENT CALIBRATION LOG

DATE/TIME: 4.19.07 630AM
(MM/DD/YY, HH:MM)

PROJECT: Jet-c Cecil Field

TASK: gw sampling

FIELD PERSONNEL: B. Thompson (NAME (PRINT)) B. Thompson (SIGNATURE)

GROUNDWATER EQUIPMENT 1 (Specify): YSI 556 / LaMotte 2020
(i.e., YSI 556, Oakton, etc)

	pH (std units)			D.O.* (%)	Conductivity (umho/cm)	Turbidity (NTUs, minimum of two standards)			
STANDARDS (if blank, specify):	4.00	7.00	10.00	100% in air	1409.00	0.0	10.0		
INITIAL READING	4.01	7.00	10.00	99.8	1409	0.0	10.0		
FINAL READING	4.01	7.00	10.00	100%	1409	0.0	10.0		
CALIBRATED	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N

1 mho = 1 siemens

OVA/FID/PID EQUIPMENT 2 (Specify): _____
(i.e., PortaFID or PhotoVac PID)

	Methane (use for PortaFID OVA)	Isobutylene (use for PhotoVAC 2020)
STANDARDS (if blank, specify):	100 ppm	100 ppm
INITIAL READING		
FINAL READING		
CALIBRATED	Y / N	Y / N

EQUIPMENT 3 (Specify): _____
(i.e., YSI 556, Oakton, etc)

	pH (std units)			D.O.* (%)	Conductivity (umho/cm)	Turbidity (NTUs, minimum of two standards)			
STANDARDS (if blank, specify):	4.00	7.00	10.00	100% in air	1409.00				
INITIAL READING									
FINAL READING									
CALIBRATED	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N	Y / N

* - Although dissolved oxygen is typically calibrated in percent (%) saturation in air, stabilization readings should be recorded in milligrams per liter (mg/l)

Monitoring Well Data
JETC GW Field Monitoring
N.A.S. Cecil Field

Well Identification	Total Depth of Well (feet, btoc)	Total Depth of Product	Depth to Water (feet, btoc)	Date/Time	pH	Conductivity (uS) (mS/cm)	Turbidity	Dissolved Oxygen (mg/l)	Temperature (°C)	ORP
NG-24S	14.30		9.69	4-18-07	5.84	155	10	0.81	24.04	122.1
CEF-334-32S	13.30		10.15	4-18-07	4.30	73	3	0.54	22.75	-149.0
CEF-334-33S	13.30		9:56	4-18-07	4.42	106	90	0.70	23.30	186.8
CEF-334-02S	13.00		8.83	4-19-07	6.64	555	N/A	0.39	21.13 c	-97.3
CEF-811-08S	13.70		9.33	4-19-07	5.48	89	N/A	1.74	20.80 c	72.5
CEF-334-01S	13.85		9.48	4-19-07	6.05	289	N/A	0.53	19.13 c	39.2
CEF-811-06S	12.85		9.41	4-19.07	5.15	113	N/A	0.88	21.37 c	107.3
CEF-334-02SA	15.00		9.31	4-18-07	5.65	125	140	0.40	22.85 c	-97.3
CEF-811-17S	14.62		9.48	4-18-07	6.23	527	12	0.70	20.40 c	33.3
CEF-811-16SR	13.30		9.45	4-18.07	5.73	205	16	0.45	20.44 c	34.8
CEF-334-34S	13.30		10.56	4-18-07	5.87	196	86	0.65	20.96 c	49.0
CEF-339-29S	14.54		9.60	4-18-07	6.25	350	3	0.40	21.55 c	125.7
CEF-339-30S	14.00		9.21	4-19-07	6.17	184	N/A	0.96	21.52 c	38.5
CEF-339-28S	14.00		9.56	4.18.07	6.38	644	10	0.59	21.33 c	115.5
CEF-811-18S	14.85		9.53	4.18.07	5.98	270	4	0.49	21.62	-157.2

Field meter calibration info-Date:_____, Time:_____, pH:_____, Cond.:_____, Turb:_____, D.O.:_____, Temp:_____, ORP_____.

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: NAS Cecil Field, Jacksonville, Duval Co., FL	SITE LOCATION: JETC

WELL NO: CEF-334-34S	SAMPLE ID: CEF-334-34S	DATE: 4/18/07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to 13.30 feet	STATIC DEPTH TO WATER (feet): 8.70	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (13.30 feet – 8.70 feet) X 0.16 gallons/foot = 0.73 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 10.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 13.0	PURGING INITIATED AT: 16:35	PURGING ENDED AT: 16:47	TOTAL VOLUME PURGED (gallons): 3.0

TIME 3	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
16:38	0.75	0.75	.25	10.55	5.87	20.95	194	0.95	86	Turbid	none
16:41	0.75	1.5	.25	10.55	5.87	20.96	195	0.81	86	|	|
16:44	0.75	2.25	.25	10.55	5.87	20.96	196	0.68	86	|	|
1647	0.75	3.0	.25	10.56	5.87	20.96	196	0.65	86		

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: B. Thompson / U.R.S corp.	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 16:47	SAMPLING ENDED AT: 17:01
PUMP OR TUBING DEPTH IN WELL (feet): 13.0	SAMPLE PUMP FLOW RATE (mL per minute): 100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y [N]	FIELD-FILTERED: Y [N] FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
CEF-334-34S	3	Vial	40 ml	HCl	0	Pre-preserved	BTEX+MTBE (EPA 8021)	SM
CEF-334-34S	1	AG	I L	NA	0	NA	PAH (EPA 8270SIM)	PP
CEF-334-34S	1	AG	I L	H_2SO_4	0	Pre-preserved	TRPH (FL-PRO)	PP

REMARKS: ORP = 49.0

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: NAS Cecil Field, Jacksonville, Duval Co., FL	SITE LOCATION: JETC

WELL NO: CEF-811-18S	SAMPLE ID: CEF-811-18S	DATE: 4/18 /07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to 14.85 feet	STATIC DEPTH TO WATER (feet): 9.53	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (14.85 feet – 9.53 feet) X 0.16 gallons/foot = 0.85 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.0	PURGING INITIATED AT: 16:06	PURGING ENDED AT: 16:16	TOTAL VOLUME PURGED (gallons): 2.50

TIME 4	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
16:10	1.0	1.0	.25	10.00	5.98	21.63	269	0.64	5	clear	None
16:13	0.75	1.75	.25	10.00	5.98	21.63	269	0.50	4		
16:16	0.75	2.50	.25	10.00	5.98	21.62	270	0.49	4		

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: B. Thompson / U.R.S Corp	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 16:16	SAMPLING ENDED AT: 1630
PUMP OR TUBING DEPTH IN WELL (feet): 12.0	SAMPLE PUMP FLOW RATE (mL per minute): 100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y [N]	FIELD-FILTERED: Y [N] FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: [Y] N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
CEF-811-18S	3	Vial	40 ml	HCl	0	Pre-preserved	BTEX+MTBE (EPA 8021)	SM
CEF-811-18S	1	AG	I L	NA	0	NA	PAH (EPA 8270SIM)	PP
CEF-811-18S	1	AG	I L	H_2SO_4	0	Pre-preserved	TRPH (FL-PRO)	PP

REMARKS: ORP = -157.2

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: NAS Cecil Field, Jacksonville, Duval Co., FL	SITE LOCATION: JETC
WELL NO: CEF-334-02SA	SAMPLE ID: CEF-334-02SA — DATE: 4/18/07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to 13.30 feet	STATIC DEPTH TO WATER (feet): 9.31	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (15.00 feet – 9.31 feet) X 0.16 gallons/foot = 0.91 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.3	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.8	PURGING INITIATED AT: 15:30	PURGING ENDED AT: 15:46	TOTAL VOLUME PURGED (gallons): 4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
15:34	1.0	1.0	.25	9.78	5.64	23.08	132	0.57	140	Turbid	None
15:37	0.75	1.75	.25	9.78	5.64	22.93	132	0.40	140		
15:40	0.75	2.50	.25	9.79	5.64	22.86	126	0.40	141		
15:43	0.75	3.25	.25	9.79	5.64	22.86	126	0.40	140		
15:46	0.75	4.0	.25	9.79	5.65	22.85	125	0.40	140		

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: B. Thompson / U.R.S Corp	SAMPLER(S) SIGNATURES: B. Thompson	SAMPLING INITIATED AT: 15:46	SAMPLING ENDED AT: 1600
PUMP OR TUBING DEPTH IN WELL (feet): 11.8	SAMPLE PUMP FLOW RATE (mL per minute): 100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y [N]	FIELD-FILTERED: Y [N] FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
CEF-334-02SA	3	Vial	40 ml	HCl	0	Pre-preserved	BTEX+MTBE (EPA 8021)	SM
CEF-334-02SA	1	AG	1 L	NA	0	NA	PAH (EPA 8270SIM)	PP
CEF-334-02SA	1	AG	1 L	H_2SO_4	0	Pre-preserved	TRPH (FL-PRO)	PP

REMARKS: ORP = -97.3

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: NAS Cecil Field, Jacksonville, Duval Co., FL	SITE LOCATION: JETC	
WELL NO: CEF-334-32S	SAMPLE ID: CEF-334-32S	DATE: 4/18 /07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to 13.30 feet	STATIC DEPTH TO WATER (feet): 10.15	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (13.30 feet – 10.15 feet) X 0.16 gallons/foot = 0.50 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 12.1	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.2	PURGING INITIATED AT: 14:50	PURGING ENDED AT: 15:03	TOTAL VOLUME PURGED (gallons): 1.625

TIME 4	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
14:54	.5	.5	.125	10.25	4.30	22.75	70	0.56	3	clear	none
14:57	0.375	0.875	.125	10.25	4.30	22.75	71	0.55	3	|	|
15:00	0.375	1.25	.125	10.25	4.30	22.75	73	0.55	3	|	|
15:03	0.375	1.625	.125	10.25	4.30	22.75	73	0.54	3	|	|

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: B Thompson / U.R.S corp	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 15:03	SAMPLING ENDED AT: 15:21
PUMP OR TUBING DEPTH IN WELL (feet): 12.2	SAMPLE PUMP FLOW RATE (mL per minute): 100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y [N]	FIELD-FILTERED: Y [N] FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
CEF-334-32S	3	Vial	40 ml	HCl	0	Pre-preserved	BTEX+MTBE (EPA 8021)	SM
CEF-334-32S	1	AG	I L	NA	0	NA	PAH (EPA 8270SIM)	PP
CEF-334-32S	1	AG	I L	H_2SO_4	0	Pre-preserved	TRPH (FL-PRO)	PP

REMARKS:
ORP = 149.0

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: NAS Cecil Field, Jacksonville, Duval Co., FL	SITE LOCATION: JETC	
WELL NO: NG-24S	SAMPLE ID: NG-24S	DATE: 4/18 /07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to 14.30 feet	STATIC DEPTH TO WATER (feet): 9.69	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (14.30 feet – 9.69 feet) X 0.16 gallons/foot = 0.73 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.7	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.0	PURGING INITIATED AT: 13:35	PURGING ENDED AT: 13:50	TOTAL VOLUME PURGED (gallons): 2.25

TIME 6	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
13:41	0.75	0.75	.125	9.97	5.84	23.98	152	0.90	20	clear	NONE
13:44	0.375	1.5	.125	9.98	5.84	24.04	152	0.83	15		
13:47	0.375	1.875	.125	9.98	5.84	24.04	152	0.81	12		
13:50	0.375	2.25	.125	9.98	5.84	24.04	155	0.81	10		

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: B. Thompson/U.R.S corp	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 13:50	SAMPLING ENDED AT: 14:40
PUMP OR TUBING DEPTH IN WELL (feet): 12.0	SAMPLE PUMP FLOW RATE (mL per minute): 100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y [N]	FIELD-FILTERED: Y [N] FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
NG-24S	3	Vial	40 ml	HCl	0	Pre-preserved	BTEX+MTBE (EPA 8021)	SM
NG-24S	1	AG	I L	NA	0	NA	PAH (EPA 8270SIM)	PP
NG-24S	1	AG	I L	H_2SO_4	0	Pre-preserved	TRPH (FL-PRO)	PP

REMARKS:
Dup-1 + ms/msD ORP = 122.1

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

99.00
23.35

SITE NAME: NAS Cecil Field, Jacksonville, Duval Co., FL	SITE LOCATION: JETC	
WELL NO: CEF-334-33S	SAMPLE ID: CEF-334-33S	DATE: 4/18 /07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to 13.30 feet	STATIC DEPTH TO WATER (feet): 9.56	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (13.30 feet – 9.56 feet) X 0.16 gallons/foot = 0.59 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 11.7	PURGING INITIATED AT: 12:46	PURGING ENDED AT: 13:06	TOTAL VOLUME PURGED (gallons): 3.75

TIME S	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
12:51	0.625	0.625	.125	9.69	4.77	23.60	101	1.23	330	cloudy	NONE
12:54	0.375	1.25	.125	9.70	4.59	23.00	99	1.10	330		
12:57	0.375	1.87	.125	9.70	4.42	23.33	99	0.91	190		
13:00	0.375	2.5	.125	9.70	4.42	23.33	100	0.84	90		
13:03	0.375	3.1	.125	9.70	4.42	23.30	105	0.77	90		
13:06	0.375	3.75	.125	9.70	4.42	23.30	106	0.70	90		

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: B. Thompson / U.A.S corp	SAMPLER(S) SIGNATURES: [signature]	SAMPLING INITIATED AT: 13:06	SAMPLING ENDED AT: 13:25
PUMP OR TUBING DEPTH IN WELL (feet): 11.7	SAMPLE PUMP FLOW RATE (mL per minute): 100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y [N]	FIELD-FILTERED: Y [N] FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
CEF-334-33S	3	Vial	40 ml	HCl	0	Pre-preserved	BTEX+MTBE (EPA 8021)	SM
CEF-334-33S	1	AG	I L	NA	0	NA	PAH (EPA 8270SIM)	PP
CEF-334-33S	1	AG	I L	H_2SO_4	0	Pre-preserved	TRPH (FL-PRO)	PP

REMARKS: ORP = 186.8

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: NAS Cecil Field, Jacksonville, Duval Co., FL	SITE LOCATION: JETC

WELL NO: CEF-339-28S	SAMPLE ID: CEF-339-28S	DATE: 4/19/07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to 14.00 feet	STATIC DEPTH TO WATER (feet): 9.56	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (14.00 feet – 9.56 feet) X 0.16 gallons/foot = 0.71 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5	PURGING INITIATED AT: 7:35	PURGING ENDED AT: 7:44	TOTAL VOLUME PURGED (gallons): 2.25

TIME 3	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
7:38	0.75	0.75	.25	10.40	6.38	21.10	642	0.92	20	clear	none
7:41	0.75	1.50	.25	10.41	6.38	21.33	643	0.61	12	/	/
7:44	0.75	2.25	.25	10.41	6.38	21.33	644	0.59	10	/	/

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: B. Thompson / U.R.S corp	SAMPLER(S) SIGNATURES: B. Thompson	SAMPLING INITIATED AT: 7:44	SAMPLING ENDED AT: 8:00
PUMP OR TUBING DEPTH IN WELL (feet): 12.5	SAMPLE PUMP FLOW RATE (mL per minute): 100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y [N]	FIELD-FILTERED: Y [N] FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
CEF-339-28S	3	Vial	40 ml	HCl	0	Pre-preserved	BTEX+MTBE (EPA 8021)	SM
CEF-339-28S	1	AG	1 L	NA	0	NA	PAH (EPA 8270SIM)	PP
CEF-339-28S	1	AG	1 L	H_2SO_4	0	Pre-preserved	TRPH (FL-PRO)	PP

REMARKS:
ORP = -115.5

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: NAS Cecil Field, Jacksonville, Duval Co., FL	SITE LOCATION: JETC

WELL NO: CEF-811-17S	SAMPLE ID: CEF-811-17S	DATE: 4/19/07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to 14.62 feet	STATIC DEPTH TO WATER (feet): 9.48	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (14.62 feet – 9.48 feet) X 0.16 gallons/foot = 0.82 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.7	PURGING INITIATED AT: 8:05	PURGING ENDED AT: 8:18	TOTAL VOLUME PURGED (gallons): 1.625

TIME 7	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:12	0.875	0.875	.125	10.69	6.23	20.41	524	0.84	20	clear	none
8:15	0.375	1.25	.125	10.70	6.23	20.40	527	0.78	18	/	/
8:18	0.375	1.625	.125	10.70	6.23	20.40	527	0.70	12	/	/

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: B. Thompson / U.A.S COND	SAMPLER(S) SIGNATURES: B. Thompson	SAMPLING INITIATED AT: 8:18	SAMPLING ENDED AT: 8:33
PUMP OR TUBING DEPTH IN WELL (feet): 12.7	SAMPLE PUMP FLOW RATE (mL per minute): 100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y [N]	FIELD-FILTERED: Y [N] FILTER SIZE: ____ µm Filtration Equipment Type: ____	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
CEF-811-17S	3	Vial	40 ml	HCl	0	Pre-preserved	BTEX+MTBE (EPA 8021)	SM
CEF-811-17S	1	AG	I L	NA	0	NA	PAH (EPA 8270SIM)	PP
CEF-811-17S	1	AG	I L	H_2SO_4	0	Pre-preserved	TRPH (FL-PRO)	PP

REMARKS: ORP= 33.3

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: NAS Cecil Field, Jacksonville, Duval Co., FL	SITE LOCATION: JETC	
WELL NO: CEF-339-29S	SAMPLE ID: CEF-339-29S	DATE: 4/19/07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to 14.54 feet	STATIC DEPTH TO WATER (feet): 9.60	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (14.54 feet – 9.60 feet) X 0.16 gallons/foot = 0.79 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.6	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5	PURGING INITIATED AT: 7:00	PURGING ENDED AT: 7:10	TOTAL VOLUME PURGED (gallons): 2.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
7:04	1.0	1.0	.25	10.12	6.25	21.55	354	0.44	9	clear	NONE
7:07	0.75	1.75	.25	10.12	6.25	21.55	353	0.43	4		
7:10	0.75	2.50	.25	10.13	6.25	21.55	350	0.40	3		

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: B. Thompson/U.R.S corp	SAMPLER(S) SIGNATURES: B Thomp	SAMPLING INITIATED AT: 7:10	SAMPLING ENDED AT: 7:29
PUMP OR TUBING DEPTH IN WELL (feet): 12.5	SAMPLE PUMP FLOW RATE (mL per minute): 100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y [N]	FIELD-FILTERED: Y [N] FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
CEF-339-29S	3	Vial	40 ml	HCl	0	Pre-preserved	BTEX+MTBE (EPA 8021)	SM
CEF-339-29S	1	AG	I L	NA	0	NA	PAH (EPA 8270SIM)	PP
CEF-339-29S	1	AG	I L	H_2SO_4	0	Pre-preserved	TRPH (FL-PRO)	PP

REMARKS: ORP = 125.7

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

DEP-SOP-001/01
FS 2200 Groundwater Sampling
Form FD 9000-24

GROUNDWATER SAMPLING LOG

SITE NAME: NAS Cecil Field, Jacksonville, Duval Co., FL	SITE LOCATION: JETC

WELL NO: CEF-811-16SR	SAMPLE ID: CEF-811-16SR	DATE: 4/19/07

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL SCREEN INTERVAL DEPTH: feet to 13.30 feet	STATIC DEPTH TO WATER (feet): 9.45	PURGE PUMP TYPE OR BAILER: PP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
= (13.30 feet – 9.45 feet) X 0.16 gallons/foot = 0.61 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 11.5	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 12.5	PURGING INITIATED AT: 8:36	PURGING ENDED AT: 8:50	TOTAL VOLUME PURGED (gallons): 1.75

TIME S	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
8:41	0.625	0.625	.125	10.40	5.73	20.27	206	0.59	17	clear	none
8:44	0.375	1.0	.125	10.40	5.73	20.42	206	0.47	16		
8:47	0.375	1.375	.125	10.41	5.73	20.42	206	0.46	16		
8:50	0.375	1.75	.125	10.41	5.73	20.44	205	0.45	16		

WELL CAPACITY (Gallons Per 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 DIA. CAPACITY (Gal./Ft.): **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 (PRINT) / AFFILIATION: B. Thompson / U.R.S CORP	SAMPLER(S) SIGNATURES: B Thompson	SAMPLING INITIATED AT: 8:50	SAMPLING ENDED AT: 9:07
PUMP OR TUBING DEPTH IN WELL (feet): 12.5	SAMPLE PUMP FLOW RATE (mL per minute): 100 mL	TUBING MATERIAL CODE: PE	
FIELD DECONTAMINATION: Y [N]	FIELD-FILTERED: Y [N] FILTER SIZE: ____ µm Filtration Equipment Type: _____	DUPLICATE: Y [N]	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
CEF-811-16SR	3	Vial	40 ml	HCl	0	Pre-preserved	BTEX+MTBE (EPA 8021)	SM
CEF-811-16SR	1	AG	I L	NA	0	NA	PAH (EPA 8270SIM)	PP
CEF-811-16SR	1	AG	I L	H_2SO_4	0	Pre-preserved	TRPH (FL-PRO)	PP

REMARKS: ORP = 34.8

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

SAMPLING/PURGING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **VT** = Vacuum Trap; **O** = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)