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THIRD CONTRACT QUARTER 2006 OPERATIONS AND MAINTENANCE STATUS REPORT FOR AIR SPARGING SYSTEM AT JET ENGINE TEST CELL NAS CECIL FIELD FL

2/28/2006

ESA ENVIRONMENTAL SPECIALISTS INC

Third Contract Quarter 2006
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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Contents

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	Naval Facilities Engineering Command, Engineering Field
SOUTH	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 3rd Contract Quarter 2006 Operations and Maintenance Status Report is to provide a summary of activities performed at the JETC site during the period from November 6, 2005 to February 9, 2006.

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.

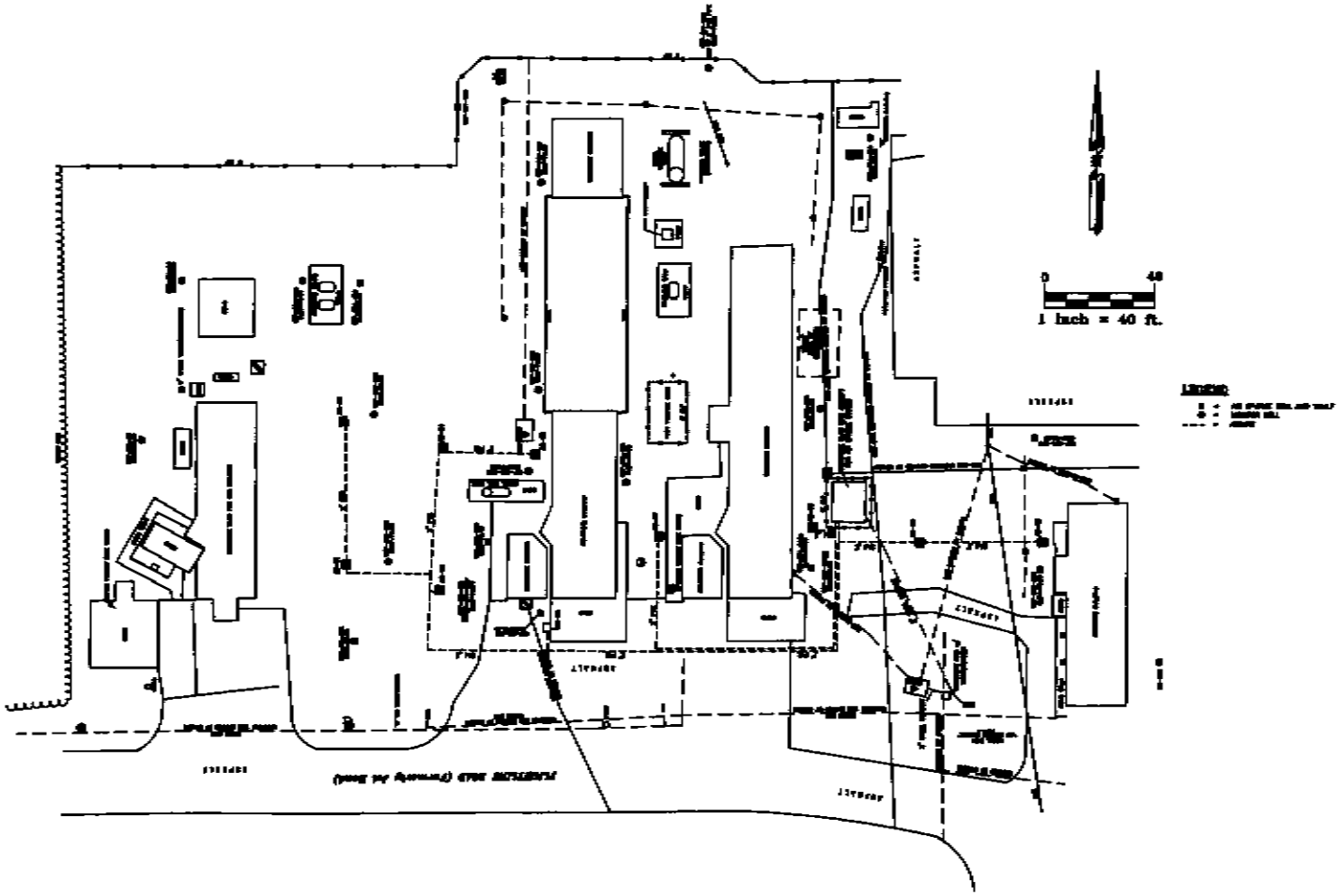
On May 24, 2005, management of on-going remedial activities at the JETC site was transferred from CH2M Hill to ESA.

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.



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Environmental Specialists, Inc.

JET ENGINE TEST CELL
FORMER NAS CECIL FIELD
JACKSONVILLE, FLORIDA

SITE MAP

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

	Period (11/6/05-2/9/06)	**To Date** (from 5/17/05)
Air Sparging System	JETC	JETC
Hours of Possible Operation	2280	6432
Hours of Actual Operation	836.52	2664.31
Percent Hours of Operation	36.69%	41.42%

2.2 AS System Summary of Maintenance and Downtime

During the period from November 6, 2005 to February 9, 2006, the JETC AS system ran a total of 34.86 days out of a possible 95 days resulting of 1443.48 hours of downtime. The AS system downtime details are as follows:

- **JETC AS system**
  - On November 6, 2005 the system was down upon arrival due to a tripped system, it was reset and restarted before departure
  - On December 28, 2005, the system was down to repair an airline leak. The system remained off upon departure for the repairs to cure.
  - On December 31, 2005, the system was down upon arrival; the system was reset and restarted before departure.
  - On January 17, 2006, the system was down upon arrival and was reset and restarted before departure.
    - The oil separator return line filters, located in the oil separator housing were extremely dirty and clogged. This clogging resulted in separated oil not returning to the crankcase which causes excess oil in the separator casing resulting in oil carry over. The Curtis air dryer handles any excess oil carryover, reducing the air dryer's ability to work and clogging air filters with excess oil.
    - During installation of AD 12ST filter element, the new element upper threaded cap separated from the filter body. The Compressor

Maintenance team glued, then finished installing the element and reinstalled the housing.
    - The maintenance team tested operation of the high temperature shut down and the overload shut down.
- On February 7, 2006 the system was up and running upon arrival and departure, the Compressor Maintenance was confirmed complete.
- On February 9, 2006 the system was up and running upon arrival and departure.

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 **13.41** 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
3rd Contract Quarter 2006

Location	Air Sparge Well	Date	Wellhead Pressure (psi)		Flow Rate (scfm)	
			Initial	Reset	Initial	Reset
JETC	AS-01	2/9/2006	16.5	15.0	12.0	10.0
JETC	AS-02	2/9/2006	15.5	13.5	11.5	10.0
JETC	AS-03	2/9/2006	16.2	15.0	11.0	10.0
JETC	AS-04	2/9/2006	15.0	13.0	13.5	10.0
JETC	AS-05	2/9/2006	0	-	0	-
JETC	AS-06	2/9/2006	16.25	14.0	13.0	10.0
JETC	AS-07	11/6/2005	16.0	15.0	11.0	10.0
		2/9/2006	13.0	13.5	9.8	10.0
JETC	AS-08	11/6/2005	12.75	-	4.0	-
		2/9/2006	11.0	10.0	5.5	3.0
JETC	AS-09	11/6/2005	13.0	-	6.5	-
		2/9/2006	11.5	9.5	7.5	2.0
JETC	AS-10	11/6/2005	10.25	-	2.5	-
		2/9/2006	9.5	-	2.5	-
Averages			**13.41 psi**		**8.42 scfm**	

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

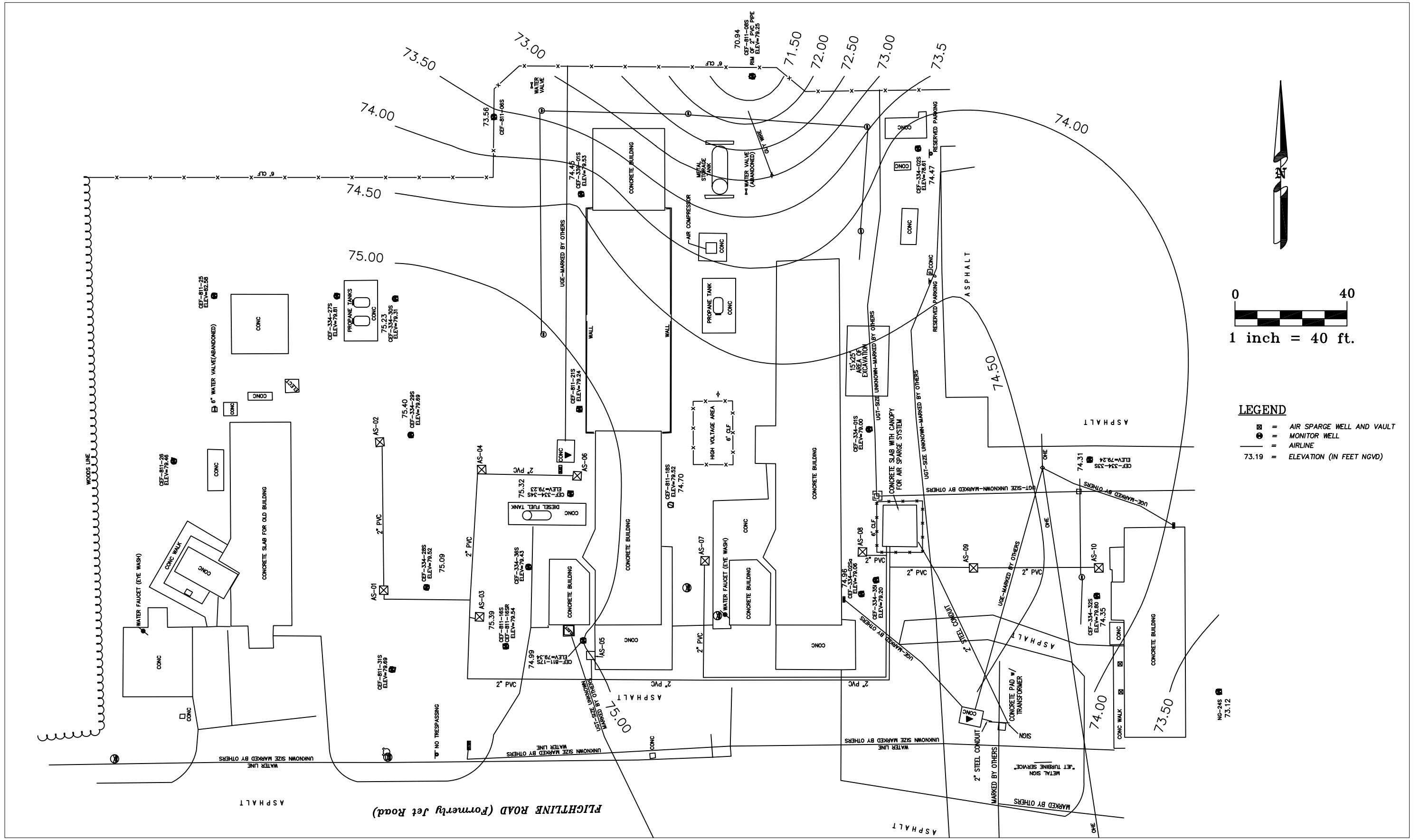
2.4 Water Level Measurements

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
3rd Contract Quarter 2006

Monitoring Well	Date	TOC Elevation (feet)	Depth to Water (feet bTOC)	Water Level Elevation (feet NGVD)
NG-24S	12/11/2005	78.17	5.90	72.27
CEF-334-32S	12/11/2005	79.80	6.28	73.52
CEF-334-33S	12/11/2005	79.24	5.77	73.47
CEF-334-02S	12/11/2005	78.61	5.06	73.55
CEF-811-08S	12/11/2005	79.26	5.53	73.73
CEF-334-01S	12/11/2005	79.00	5.60	73.40
CEF-811-06S	12/11/2005	78.02	5.54	72.48
CEF-334-02SA	12/11/2005	79.06	5.21	73.85
CEF-811-17S	12/11/2005	79.34	5.40	73.94
CEF-811-16SR	12/11/2005	79.54	5.20	74.34
CEF-334-34S	12/11/2005	79.23	5.13	74.10
CEF-339-29S	12/11/2005	79.89	5.65	74.24
CEF-339-30S	12/11/2005	79.31	5.20	74.11
CEF-339-28S	12/11/0005	79.52	5.44	74.08
CEF-811-18S	12/11/2005	79.52	5.58	73.94

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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DRAWN: RC	REVISIONS	BY	DATE	ESA Environmental Specialists, Inc. Since 1995	JET ENGINE TEST CELL FORMER NAS CECIL FIELD JACKSONVILLE, FLORIDA	POTENIOMETRIC SURFACE MAP SEPTEMBER 3, 2005	FIGURE 2-1
CHECKED: AS							
DATE: OCT 2005							

3 Summary of Sampling and Laboratory Analytical Results

3.1 Groundwater Monitoring

ESA conducted the 3rd Contract Quarter 2006 groundwater monitoring events beginning on November 6, 2005. During the 3rd Contract Quarter 2006 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 3rd Contract Quarter 2006 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 highly aerobic in a few cases with DO measurements above 1 milligram per liter (mg/ L) in only 3 of the 15 monitoring wells. This is reduced from the previous 7 of the 15 monitoring wells reported during the last quarterly report. The oxidation-reduction potential (ORP) measurements greater than 50 millivolts were present in 8 of the 15 monitoring wells as opposed to the only 5 from the previous quarterly report.

The Groundwater Samples from the monitoring well CEF-811-18S in the previous quarterly report detected concentrations exceeding Groundwater Cleanup Target Levels (GCTLs) for Naphthalene, however during this quarters sampling the Naphthalene is measurements are reported under GCTLs, however the sample matrix interfered with the laboratories analysis' ability to make an accurate determination.

None of the wells during this quarterly report identified concentrations that exceeded the GCTLs or the Natural Attenuation Default Source Concentrations (NADSC) at a detectable limit.

As compared to the previous quarterly reports, overall, the groundwater analytical concentrations have decreased as 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.

Table 3-1 Groundwater Analytical Results, 3rd Contract Quarter 2006

	Station ID		NG-24S	CEF-334-32S	CEF-334-33S	CEF-334-02SA	CEF-811-17S	CEF-811-16SR	CEF-334-34S	Equipment Blank
	Sample ID		J058261-01	J058261-02	J058261-03	J058261-04	J058261-05	J05261-06	J058261-07	J058261-08
	Sample Date		12/11/05	12/11/05	12/11/05	12/11/05	12/11/05	12/11/05	12/11/05	12/11/05
	GCTL[1]	NADC[1]								
Parameter	micrograms per liter (µg/L)									
Volatile Aromatic Hydrocarbons										
Benzene	1	10	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.63 U	0.21 U	0.21 U
Ethylbenzene	30	300	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.51 U	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	1.1 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	1.89 U	0.79 i	0.63 U
Toluene	1	10	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.69 U	0.44 i	0.23 U
1-methylnaphthalene	28	280	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
2-methylnaphthalene	28	280	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Acenaphthene	20	200	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	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	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	0.080 U
Benzo(a)anthracene	0.05	0.5	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Benzo(a)pyrene	0.2	2	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U	0.094 U
Benzo(b)fluoranthene	0.05	0.5	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 U	0.081 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	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	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	0.060 U
Dibenz(a,h)anthracene	0.005	0.05	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**
Fluoranthene	280	2800	0.084 U	0.084 U	0.084 U	0.084 U	0.094 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	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-cd)pyrene	0.05	0.5	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Naphthalene	14	140	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	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	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	0.12 U

Table 3-1 cont'd

	Station ID		CEF-339-28S	CEF-339-29S	CEF-811-18S	Dup 1	Trip Blank
	Sample ID		J058261-09	J058261-10	J058261-11	J058261-12	J058261-13
	Sample Date		12/11/05	12/11/05	12/11/05	12/11/05	12/11/05
	GCTL[1]	NADC[1]					
Parameter	micrograms per liter (µg/L)						
Volatile Aromatic Hydrocarbons							
Benzene	1	10	0.21 U	0.21 U	0.40 i	0.21 U	0.21 U
Ethylbenzene	30	300	0.17 U	0.17 U	2.8	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
Xylenes (total)	20	200	0.79 i	0.63 U	0.86 i	0.89 i	0.63 U
Toluene	1	10	0.61 i	0.23 U	0.42 i	0.68 i	0.23 U
1-methylnaphthalene	28	280	0.64	0.12 U	0.18 i	0.56	-
2-methylnaphthalene	28	280	0.49 i	0.18 U	0.19 i	0.45 i	-
Acenaphthene	20	200	0.13 U	0.13 U	0.13 U, J4	0.13 U	-
Acenaphthylene	210	2100	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	-
Benzo(a)anthracene	0.05	0.5	0.11 U	0.11 U	0.11 U	0.11U	-
Benzo(a)pyrene	0.2	2	0.094 U	0.094 U	0.094 U	0.094 U	-
Benzo(b)fluoranthene	0.05	0.5	0.081 U	0.081 U	0.081 U	0.081 U	-
Benzo(g,h,i)perylene	210	2100	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	-
Chrysene	4.8	48	0.060 U	0.060 U	0.060 U	0.060 U	-
Dibenz(a,h)anthracene	0.005	0.05	**0.10 U**	**0.10 U**	**0.10 U**	**0.10 U**	-
Fluoranthene	280	2800	0.084 U	0.084 U	0.084 U	0.084 U	-
Fluorene	280	2800	0.10 U	0.10 U	0.10 U, J4	0.10 U	-
Indeno(1,2,3-cd)pyrene	0.05	0.5	0.15 U	0.15 U	0.15 U	0.15 U	-
Naphthalene	14	140	2.0	0.15 U	4.2 J4	1.9	-
Phenanthrene	210	2100	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	-

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
3rd Contract Quarter 2006

Sample Date 12/11/2005	Groundwater					
Well	**pH**	**Conductivity (mS/cm)**	**Turbidity (NTU)**	**Dissolved Oxygen (mg/L)**	**Temperature (ºC)**	**ORP (mV)**
NG-24S	5.72	98.7	2.24	0.51	22.1	199
CEF-334-32S	5.76	56.9	60.2	**5.28**	20.2	64
CEF-334-33S	4.97	67.7	17.49	0.90	22.2	213
CEF-334-02S	6.29	466.0	6.87	0.37	18.8	282
CEF-811-08S	6.68	176.9	32.2	**4.74**	20.2	268
CEF-334-01S	6.55	439.4	8.43	0.54	19.3	182
CEF-811-06S	5.63	141.9	5.32	**1.53**	20.5	209
CEF-334-02SA	6.26	133.1	12.95	0.11	20.2	5
CEF-811-17S	6.65	345.0	10.61	0.17	20.5	-42
CEF-811-16SR	6.34	363.4	18.48	0.30	20.3	38
CEF-334-34S	6.25	307.3	5.23	0.42	17.3	-4
CEF-339-29S	6.91	606.0	2.54	0.11	22.3	-97
CEF-339-30S	6.42	242.0	4.49	0.29	21.4	106
CEF-339-28S	6.85	96.3	2.25	0.14	20.0	-97
CEF-811-18S	6.08	221.5	7.36	0.25	20.5	-2

Note: All measurements taken using direct reading instruments in the field.
mS/cm – milliSiemens per centimeter
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

During the 3rd Contract Quarter 2006 period, following a recent repair and restart of the air supply line feeding air sparge well AS-05, an additional air line leak was detected near the elbow leading from the equipment compound to the line that feeds the northern portion of the AS system. The area is a substantial distance from the recent repair area and an unrelated concern. Change Order Modification No. 2 was submitted on November 7, 2005 for the approval of use for the Emergency Repair Funds. The necessary repairs were approved and completed. Compressor Maintenance was also completed during the 3rd Contract Quarter on the JETC mattei compressor. This maintenance was necessary to ensure the proper and most efficient running of the Compressor. The maintenance included all performances of major preventative services, new parts and installation of oil filters, oil return valves, and other filter elements, as well as servicing the inlet valve, vacuum relief valve, pressure relief valve, inspection of the control systems, and a thorough testing of the operation and performance of the unit. The system was shut off during the maintenance when it was discovered the replacement of the filter elements the previous contractor had specified were the incorrect filter element for repair. Much time was used to determine the correct filter element through trial and error. The correct filter element is now in place and the system is up and running much more efficiently and effectively.

The JETC AS systems operated with a great amount downtime during the monitoring period with a resulting operational efficiency of percent of 36.69%. The majority of the downtime for the JETC AS System is described above, as well as a result of compressor relay trips when local electrical utilities have a power blink which frequently occurs and have been discussed in previous reports. A system enhancement modification was sent to contracting on February 10, 2006 with a full quote for the work to be performed for these installations. The installation of automatic timed resets for the Mattei compressors operating at Cecil Field will reduce downtime when electrical power outages occur. This installation will offer the AS Systems auto reset capabilities as compared to the current configuration which only offers a manual reset method.

None of the wells during this quarterly report identified concentrations that exceeded the GCTLs or the NADSCs at a detectable limit. The DO measurements above 1 milligram per liter (mg/ L) were reduced to only 3 of the 15 monitoring wells as opposed to the 7 of the 15 monitoring wells during the last quarterly report. Oxidation-reduction potential (ORP) measurements greater than 50 millivolts however were increased from 5 wells in the previous quarterly report to 8 of the 15 monitoring wells.

As compared to the previous quarterly reports, overall, the groundwater analytical concentrations have decreased as no detected levels were reported to exceed GCTLs or NADSCs. This indicates that the air sparge system is reducing the groundwater contamination at this site.

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

Advanced
Environmental Laboratories, Inc.

6601 Southpoint Parkway
Jacksonville, Florida 32216
(904) 363-9350
FAX (904) 363-9354

Client:	URS	**Report No.:**	J058261
Project Name:	Cecil Field-Jet C	**Date Sampled:**	12/11/05
Project Number:		**Date Received:**	12/12/05 15:10
		Date Reported:	12/20/05

Attention: Bill Kelly
Phone Number: 9046456233

Address: 8761 Perimeter Park Blvd.
Suite 201
Jacksonville, FL 32216

Project Description

The analytical results for the samples contained in this report were submitted for analysis as outlined by the Chain of Custody.

Project Name: Cecil Field-Jet C

Approved By: _____

Paul Gunsaulies, Project Manager

If there are any questions involving this report, the above named should be contacted.

Advanced Environmental Laboratories certifies that the test results in this report meet all requirements of the NELAC standards, unless notated otherwise in the body of the report.

Total Number of Pages = 24

Advanced
Environmental Laboratories, Inc.

6601 Southpoint Parkway
Jacksonville, Florida 32216
(904) 363-9350
FAX (904) 363-9354

Laboratory Project No./SDG#: **J058261**

Analytical Batch ID: SV121405EFP

Client Name: **URS**

Project ID: **Cecil Field-Jet C**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. METHOD

Analysis: FL-PRO

Preparation: METHOD

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: The lower control criterion was exceeded for the surrogate Ortho-Terphenyl in the samples J058261-02 and -04, due to matrix interferences. Emulsions that formed during the extraction process are suspected of adversely affecting the recovery of the surrogate. The surrogate results are qualified accordingly.

D. Spikes: The matrix spike recovery of TPH for the sample J058261-11 was outside the AEL control criteria as a result of the heterogeneous character of the sample. The relative percent difference (RPD) for the replicate analysis supports this. Since the unspiked sample contains analyte concentrations relative to the amount spiked, the variability between replicates was sufficient to bias the percent recoveries outside normal AEL control criteria. The associated Laboratory Control Sample indicates the analysis was in control. The affected sample is qualified to indicate matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Quality Assurance Officer, or designee, as verified by the following signature, has authorized release of the data contained in this data package:

Paul Gunsaulies, Project Manager

Advanced
Environmental Laboratories, Inc.

6601 Southpoint Parkway
Jacksonville, Florida 32216
(904) 363-9350
FAX (904) 363-9354

Laboratory Project No./SDG#: **J058261**

Analytical Batch ID: SV121305NB

Client Name: **URS**

Project ID: **Cecil Field-Jet C**

I. RECEIPT

No Exceptions were encountered.

II. HOLDING TIMES

Preparation: All holding times were met.

Analysis: All holding times were met.

III. METHOD

Analysis: SW8270C-SIM

Preparation: SW3510C

IV. PREPARATION

Sample preparation proceeded normally.

V. ANALYSIS

A. Calibration: All acceptance criteria were met.

B. Blanks: All acceptance criteria were met.

C. Surrogates: All acceptance criteria were met.

D. Spikes: The matrix spike recoveries of Naphthalene, Acenaphthene, and Fluorene for J058261-11 were outside control criteria because of matrix interference. The chromatogram indicated the presence of non-target background components that prevented adequate resolution of the target analytes. As a result, accurate quantitation was not possible. The results are qualified to indicate matrix interference.

E. Internal Standard: All acceptance criteria were met.

F. Samples: Sample analyses proceeded normally.

G. Other:

I certify that this data package is in compliance with the terms and conditions agreed to by Advanced Environmental Laboratories, Inc. and by the client, both technically and for completeness, except for the conditions detailed above. The Quality Assurance Officer, or designee, as verified by the following signature, has authorized release of the data contained in this data package:

Paul Gunsaulies, Project Manager

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-01
Client Sample ID: 1
Site: NG-24S
Matrix: Water

Date/Time Sampled: 12/11/05 18:03
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**280**	ug/L	U	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.40**	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	65		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	82		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	102		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	88		SW8270C-SIM	SW3510C

U The compound was analyzed for but not detected.

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

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-02
Client Sample ID: 2
Site: CEF-334-32S
Matrix: Water

Date/Time Sampled: 12/11/05 16:53
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**610**	ug/L	i	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.40**	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	51		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	77	J4	FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	94		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	72		SW8270C-SIM	SW3510C

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4 The sample matrix interfered with the ability to make an accurate determination.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-03
Client Sample ID: 3
Site: CEF-334-33S
Matrix: Water

Date/Time Sampled: 12/11/05 17:23
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**280**	ug/L	U	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.40**	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	64		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	88		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	100		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	80		SW8270C-SIM	SW3510C

U The compound was analyzed for but not detected.

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

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-04
Client Sample ID: 4
Site: CEF-334-02SA
Matrix: Water

Date/Time Sampled: 12/11/05 16:17
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**570**	ug/L	i	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.40**	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	65		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	67	J4	FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	94		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	80		SW8270C-SIM	SW3510C

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4 The sample matrix interfered with the ability to make an accurate determination.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-05
Client Sample ID: 5
Site: CEF-811-17S
Matrix: Water

Date/Time Sampled: 12/11/05 14:01
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**2500**	ug/L		FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.40**	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	73		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	96		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	90		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	92		SW8270C-SIM	SW3510C

U The compound was analyzed for but not detected.

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

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-06
Client Sample ID: 6
Site: CEF-811-16SR
Matrix: Water

Date/Time Sampled: 12/11/05 13:22
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**2900**	ug/L		FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	3	0.63	2.5	**0.63**	ug/L	U	SW8021B		J
Ethylbenzene	3	0.51	2.0	**0.51**	ug/L	U	SW8021B		J
m&p-Xylenes	3	1.2	4.8	**1.2**	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	3	1.1	4.2	**1.1**	ug/L	U	SW8021B		J
o-Xylene	3	0.69	2.8	**0.69**	ug/L	U	SW8021B		J
Toluene	3	0.69	2.8	**0.69**	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	70		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	92		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	102		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	84		SW8270C-SIM	SW3510C

U The compound was analyzed for but not detected.

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

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-07
Client Sample ID: 7
Site: CEF-334-34S
Matrix: Water

Date/Time Sampled: 12/11/05 12:28
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**3000**	ug/L		FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.56**	ug/L	i	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.44**	ug/L	i	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	60		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	119		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	104		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	96		SW8270C-SIM	SW3510C

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-08
Client Sample ID: 8
Site: EQUIPMENT BLANK
Matrix: Water

Date/Time Sampled: 12/11/05 12:50
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**280**	ug/L	U	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.40**	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	78		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	91		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	102		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	92		SW8270C-SIM	SW3510C

U The compound was analyzed for but not detected.

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

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C
Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-09
Client Sample ID: 9
Site: CEF-339-28S
Matrix: Water
Date/Time Sampled: 12/11/05 14:49
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**510**	ug/L	i	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.64**	ug/L		AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.49**	ug/L	i	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**2.0**	ug/L		SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.56**	ug/L	i	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.61**	ug/L	i	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	67		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	84		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	94		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	80		SW8270C-SIM	SW3510C

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-10
Client Sample ID: 10
Site: CEF-339-29S
Matrix: Water

Date/Time Sampled: 12/11/05 11:11
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**280**	ug/L	U	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.12**	ug/L	U	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.18**	ug/L	U	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**0.15**	ug/L	U	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.40**	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	68		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	89		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	98		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	76		SW8270C-SIM	SW3510C

U The compound was analyzed for but not detected.

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

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C
Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-11
Client Sample ID: 11
Site: CEF-811-18S
Matrix: Water
Date/Time Sampled: 12/11/05 15:39
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**1300**	ug/L	, J4	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.18**	ug/L	i	AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.19**	ug/L	i	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U , J4	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U , J4	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**4.2**	ug/L	, J4	SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.40**	ug/L	i	SW8021B		J
Ethylbenzene	1	0.17	0.68	**2.8**	ug/L		SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.63**	ug/L	i	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.42**	ug/L	i	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	59		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	101		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	98		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	76		SW8270C-SIM	SW3510C

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J4 The sample matrix interfered with the ability to make an accurate determination.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-12
Client Sample ID: 12
Site: DUP 1
Matrix: Water

Date/Time Sampled: 12/11/05
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Florida Petroleum Range Organics

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Total PHS	1	280	1100	**380**	ug/L	i	FL-PRO		J

Polynuclear Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
1-Methylnaphthalene	1	0.12	0.49	**0.56**	ug/L		AEL SOP SVOC-006: 2-25-03		J
2-Methylnaphthalene	1	0.18	0.71	**0.45**	ug/L	i	SW8270C-SIM		J
Acenaphthene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Acenaphthylene	1	0.13	0.51	**0.13**	ug/L	U	SW8270C-SIM		J
Anthracene	1	0.080	0.32	**0.080**	ug/L	U	SW8270C-SIM		J
Benzo(a)anthracene	1	0.11	0.45	**0.11**	ug/L	U	SW8270C-SIM		J
Benzo(a)pyrene	1	0.094	0.38	**0.094**	ug/L	U	SW8270C-SIM		J
Benzo(b)fluoranthene	1	0.081	0.32	**0.081**	ug/L	U	SW8270C-SIM		J
Benzo(g,h,i)perylene	1	0.092	0.37	**0.092**	ug/L	U	SW8270C-SIM		J
Benzo(k)fluoranthene	1	0.082	0.33	**0.082**	ug/L	U	SW8270C-SIM		J
Chrysene	1	0.060	0.24	**0.060**	ug/L	U	SW8270C-SIM		J
Dibenz(a,h)anthracene	1	0.10	0.41	**0.10**	ug/L	U	SW8270C-SIM		J
Fluoranthene	1	0.084	0.34	**0.084**	ug/L	U	SW8270C-SIM		J
Fluorene	1	0.10	0.42	**0.10**	ug/L	U	SW8270C-SIM		J
Indeno(1,2,3-cd)pyrene	1	0.15	0.59	**0.15**	ug/L	U	SW8270C-SIM		J
Naphthalene	1	0.15	0.61	**1.9**	ug/L		SW8270C-SIM		J
Phenanthrene	1	0.10	0.40	**0.10**	ug/L	U	SW8270C-SIM		J
Pyrene	1	0.12	0.48	**0.12**	ug/L	U	SW8270C-SIM		J

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.66**	ug/L	i	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.68**	ug/L	i	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
Nonatricontane	42 - 193	69		FL-PRO	METHOD
Ortho-Terphenyl	82 - 142	90		FL-PRO	METHOD
1-Bromo-4-chlorobenzene	75 - 119	94		SW8021B	SW5030B
Decafluorobiphenyl	21 - 122	68		SW8270C-SIM	SW3510C

i The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
U The compound was analyzed for but not detected.
J DOH certification #E82574 (AEL-JAX) (FL NELAC certification)

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Lab Code: J058261-13
Client Sample ID: 13
Site: TRIP BLANK
Matrix: Water

Date/Time Sampled: 12/11/05
Shipping Method: AEL Pick-up
Sampled By: Robert Burns
Sampling Method: G

Volatile Aromatic Hydrocarbons

Analytes:	Dilution	Adjusted MDL	Adjusted PQL	Results	Units	Qualifier(s)	Method	Parameter Comment	Lab
Benzene	1	0.21	0.84	**0.21**	ug/L	U	SW8021B		J
Ethylbenzene	1	0.17	0.68	**0.17**	ug/L	U	SW8021B		J
m&p-Xylenes	1	0.40	1.6	**0.40**	ug/L	U	SW8021B		J
Methyl-tert-butyl Ether	1	0.35	1.4	**0.35**	ug/L	U	SW8021B		J
o-Xylene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J
Toluene	1	0.23	0.92	**0.23**	ug/L	U	SW8021B		J

Surrogates:	Control Limits	% Recovery	Qual.	Method	Prep Method
1-Bromo-4-chlorobenzene	75 - 119	94		SW8021B	SW5030B

U The compound was analyzed for but not detected.

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

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS **Report No.:** J058261

Project Name: Cecil Field-Jet C **Date/Time Received:** 12/12/05 15:10

Sample Cross Reference Information

Lab Code: J058261-01 **Site: NG-24S**

Client Sample Number: 1 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time	Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05 16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05 20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J058261-02 **Site: CEF-334-32S**

Client Sample Number: 2 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time	Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05 16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05 20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J058261-03 **Site: CEF-334-33S**

Client Sample Number: 3 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time	Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05 16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05 20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J058261-04 **Site: CEF-334-02SA**

Client Sample Number: 4 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time	Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05 16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05 20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS **Report No.:** J058261

Project Name: Cecil Field-Jet C **Date/Time Received:** 12/12/05 15:10

Lab Code: J058261-05 **Site: CEF-811-17S**

Client Sample Number: 5 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time	Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05 16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05 20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J058261-06 **Site: CEF-811-16SR**

Client Sample Number: 6 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time	Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05 16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05 20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J058261-07 **Site: CEF-334-34S**

Client Sample Number: 7 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time	Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05 16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05 20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J058261-08 **Site: EQUIPMENT BLANK**

Client Sample Number: 8 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time	Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05 16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05 20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J058261-09 **Site: CEF-339-28S**

Client Sample Number: 9 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time	Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05 16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05 03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05 20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS **Report No.:** J058261

Project Name: Cecil Field-Jet C **Date/Time Received:** 12/12/05 15:10

Lab Code: J058261-10 **Site: CEF-339-29S**

Client Sample Number: 10 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05	16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05	03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05	03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05	20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J058261-11 **Site: CEF-811-18S**

Client Sample Number: 11 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05	16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05	03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05	03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05	20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J058261-12 **Site: DUP 1**

Client Sample Number: 12 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Florida Petroleum Range Organics	FL-PRO	METHOD	SV121405EFP	12/14/05	16:54	WF	OE121405-PRO	12/14/05 08:30:0
Polynuclear Aromatic Hydrocarbons	AEL SOP SVOC-006: 2-25-03	SW3510C	SV121305NB	12/14/05	03:24	JA	OE121305-SIM	12/13/05 08:45:0
Polynuclear Aromatic Hydrocarbons	SW8270C-SIM	SW3510C	SV121305NB	12/14/05	03:24	JA	OE121305-SIM	12/13/05 08:45:0
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05	20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Lab Code: J058261-13 **Site: TRIP BLANK**

Client Sample Number: 13 **Matrix: Water**

Test Description	Analysis Method	Prep Method	Analytical Batch ID	Analysis Date/Time		Analyst	Prep Batch ID	Prep Date/Time
Volatile Aromatic Hydrocarbons	SW8021B	SW5030B	v121205d	12/12/05	20:23	RMB	v121205d	12/12/05 20:23:0

If the Analytical Batch ID and Prep Batch IDis null, the analysis was not performed by AEL, and the original report from the subcontracted laboratory will be provided containing this information.

Advanced Environmental Laboratories, Inc.

Analytical Report

Client: URS
Project Name: Cecil Field-Jet C

Report No.: J058261
Date/Time Received: 12/12/05 15:10

Quality Assurance Report

Method Blanks

Polynuclear Aromatic Hydrocarbons

QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
SV121305NB	1-Methylnaphthalene	Method Blank	AEL SOP SVOC-006: 2-25-03	0.12	0.12	ug/L	U
SV121305NB	2-Methylnaphthalene	Method Blank	SW8270C-SIM	0.18	0.18	ug/L	U
SV121305NB	Acenaphthene	Method Blank	SW8270C-SIM	0.13	0.13	ug/L	U
SV121305NB	Acenaphthylene	Method Blank	SW8270C-SIM	0.13	0.13	ug/L	U
SV121305NB	Anthracene	Method Blank	SW8270C-SIM	0.080	0.080	ug/L	U
SV121305NB	Benzo(a)anthracene	Method Blank	SW8270C-SIM	0.11	0.11	ug/L	U
SV121305NB	Benzo(a)pyrene	Method Blank	SW8270C-SIM	0.094	0.094	ug/L	U
SV121305NB	Benzo(b)fluoranthene	Method Blank	SW8270C-SIM	0.081	0.081	ug/L	U
SV121305NB	Benzo(g,h,i)perylene	Method Blank	SW8270C-SIM	0.092	0.092	ug/L	U
SV121305NB	Benzo(k)fluoranthene	Method Blank	SW8270C-SIM	0.082	0.082	ug/L	U
SV121305NB	Chrysene	Method Blank	SW8270C-SIM	0.060	0.060	ug/L	U
SV121305NB	Dibenz(a,h)anthracene	Method Blank	SW8270C-SIM	0.10	0.10	ug/L	U
SV121305NB	Fluoranthene	Method Blank	SW8270C-SIM	0.084	0.084	ug/L	U
SV121305NB	Fluorene	Method Blank	SW8270C-SIM	0.10	0.10	ug/L	U
SV121305NB	Indeno(1,2,3-cd)pyrene	Method Blank	SW8270C-SIM	0.15	0.15	ug/L	U
SV121305NB	Naphthalene	Method Blank	SW8270C-SIM	0.15	0.15	ug/L	U
SV121305NB	Phenanthrene	Method Blank	SW8270C-SIM	0.10	0.10	ug/L	U
SV121305NB	Pyrene	Method Blank	SW8270C-SIM	0.12	0.12	ug/L	U

Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits
Decafluorobiphenyl		ug/L			21 - 122

Florida Petroleum Range Organics

QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
SV121405EFP	Total PHS	Method Blank	FL-PRO	280	280	ug/L	U

Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits
Ortho-Terphenyl	51	ug/L	101		82 - 142
Nonatricontane	270	ug/L	91		42 - 193

Volatile Aromatic Hydrocarbons

QCBatchID	Analyte	QC Sample Type	Method	MDL	Result	Units	Qualifier
v121205d	Benzene	Method Blank	SW8021B	0.21	0.21	ug/L	U
v121205d	Ethylbenzene	Method Blank	SW8021B	0.17	0.17	ug/L	U
v121205d	m&p-Xylenes	Method Blank	SW8021B	0.40	0.40	ug/L	U
v121205d	Methyl-tert-butyl Ether	Method Blank	SW8021B	0.35	0.35	ug/L	U
v121205d	o-Xylene	Method Blank	SW8021B	0.23	0.23	ug/L	U
v121205d	Toluene	Method Blank	SW8021B	0.23	0.23	ug/L	U

Surrogate(s)	Result	Units	% Recovery	Qualifier	Acceptance Limits
1-Bromo-4-chlorobenzene	50	ug/L	100		75 - 119

Quality Assurance Qualifiers:

U The compound was analyzed for but not detected.

Definitions:

Water matrix refers to all aqueous matrices except drinking water, including but not limited to, wastewater, ground water, surface water, aqueous wastes and leach
Soil matrix refers to all non-aqueous matrices, including soils, solids, sludges, semi-solids, and non-aqueous waste samples
All results in mg/kg or % are reported in dry weight basis, unless notated otherwise. All results in mg/L are reported in wet weight basis.
MDL Method Detection Limit, without correction for dilution or moisture content
Adjusted Reporting Limit is the MDL accounting for all dilutions and moisture content cacluations.
PQL is defined to be 4 times the MDL, for all results qualified with a 'i' qualifier.
Sampling Method; G=Grab, P=Pump, C=Composite

Client: URS **Report No.:** J058261

Project Name: Cecil Field-Jet C **Date/Time Received:** 12/12/05 15:10

The estimated measurements of uncertainty can be provided upon request

This is the last page of the analytical report.

Advanced Environmental Labs Inc

Advanced Environmental
6601 Southpoint Parkway
Jacksonville, FL 32216

Client: URS

Project name: Cecil Field - Jet C

Date/Time Rcvd: 10/10/05 1560

Log-In request number: J0582G1

Received by: LDS

Completed by: LDS

Cooler/Shipping Information:

Courier: ☒ AEL ☐ Client ☐ UPS ☐ Pony Express ☐ FedEx ☐ AES ☐ ASAP ☐ Other (describe): _____

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

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

Cooler ID	1				
Temp (°C)	0				
Temp taken from	☐ Sample Bottle ☒ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler	☐ Sample Bottle ☐ Cooler
Temp measured with	☐ IR gun ☒ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):	☐ IR gun ☐ Thermometer (enter ID):

Other Information:

Any 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 the sample containers provided by AEL?	✓		
15. Were samples accepted into the laboratory?	✓		
16. Was it necessary to split samples into other bottles?		✓	

Comments:

Advanced Environmental Laboratories, Inc.

- [x] 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: 2106 NW 67th Place, Suite 7, Gainesville, FL 32606 • (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

CHAIN OF CUSTODY RECORD

J058261

CLIENT NAME: URS Corporation	PROJECT NAME: Cecil Field - JETC
ADDRESS: 8761 Perimeter Park Blvd., Ste 201, Jacksonville, FL 32216	P.O. NUMBER / PROJECT NUMBER: 38015444
PHONE: 904/645-6233 FAX: 904/645-6243	PROJECT LOCATION:
CONTACT: William Kelly	SAMPLED BY: Robert Burns

TURN AROUND TIME:

- [x] 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.	Preserv	BTEX+MTBE BY EPA 8021 (H)	PAH BY EPA 8270 SIM (I)	TRPH BY FL-PRO (S)	LAB NUMBER
	NG-24S	G	12-11-05	1803	GW	5		x	x	x	01
	CEF-334-32S			1653		5		x	x	x	02
	CEF-334-33S			1723		5		x	x	x	03
	CEF-334-02SA			1617		5		x	x	x	04
	CEF-811-17S			1401		5		x	x	x	05
	CEF-811-16SR			1322		5		x	x	x	06
	CEF-334-34S			1228		5		x	x	x	07
	EQUIPT. BLANK			1250		5		x	x	x	08

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

	Relinquished by:	Date	Time	Received by:	Date	Time
1		12/12/05	0900		12/12/05	1560
2	AEL Courier	12/12/05	1510	D. Satterfield	12/12/05	1510
3						
4						

Shipment Out: / / Ret'd / /

Method Via: _____ Via: AEL

Sample Kit Cooler # _____ RB _____ D/T _____ AB _____ D/T _____ Trip Bl. ☐ ☐

Received on ice: [x] yes ☐ no QC ☐ sent ☐ received

revised 8/01

Advanced Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

LA

J058261

- ☒ Jacksonville: 6601 Southpoint Parkway, Jacksonville, FL 32216 • (904) 363-9350 Fax (904) 363-9354
- ☐ Tampa: 5810-D Breckenridge Parkway, Tampa, FL 33610 • (813) 630-9616 Fax (813) 630-4327
- ☐ Gainesville: 2106 NW 67th Place, Suite 7, Gainesville, FL 32606 • (352) 367-1500 Fax (352) 367-0050

CLIENT NAME: URS Corporation	PROJECT NAME: CECIL FIELD - JETC
ADDRESS: 8761 Perimeter Park Blvd, Ste 201, Jacksonville, FL 32216	P.O. NUMBER / PROJECT NUMBER:
PHONE: 904/645-6233 FAX: 904/645-6243	PROJECT LOCATION:
CONTACT: William Kelly	SAMPLED BY: Robert Burns

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.	Preserv	BOTTLE SIZE & TYPE: 3x40ml G	1L AG	1L AG					LAB NUMBER
								ANALYSIS REQUIRED: BTEX + MTBE BY EPA 8021	PAH BY EPA 8270 SIM	TRPH BY FL-PRO					
								H	I	S					
1	CEF-339-28S	G	12-11-05	1449	GW	5		x	x	x					09
	CEF-339-29S	G	12-11-05	1111		5		x	x	x					10
	CEF-811-18S	G	12-11-05	1539		5		x	x	x					11
	DUP1	G	12-11-05	—		5		x	x	x					12
	TRIP BLANK	G			W			x							13

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

	Relinquished by:	Date	Time	Received by:	Date	Time
1	[signature]	12/12/05	0930	[signature]	12/12/05	1500
2	AEL Courier	12/12/05	1510	[signature]	12/12/05	1510
3						
4						

Shipment Out: / / Ret: / /

Method Via: _____ Via: AEL

Sample Kit Cooler # _____

RB _____ D/T _____

AB _____ D/T _____

Trip Bl. ☐ ☐

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

revised 8/01