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NAS CECIL FIELD, FL
5090.3a

"2006 ANNUAL OPERATION AND MAINTENANCE STATUS REPORT FOR NUTRIENT INJECTION SYSTEM AT BUILDING 46 FORMER TANKS 46R, 46D, 46SUL AND 46UL NAS CECIL FIELD FL"
4/1/2007
TERRAINE INC ENVIRONMENTAL SERVICES

TERRAINE Environmental Consulting

optimization
through
innovation

2006 Annual Operation and Maintenance Status Report January 1, 2006 to December 31, 2006

NUTRIENT INJECTION SYSTEM

BUILDING 46

Former Tanks 46R, 46D, 46SUL and 46UL

Naval Air Station Cecil Field Jacksonville, Florida

Contract No. N62467-02-G-0352 Contract Task Order No. 0001

Submitted to:

U.S. Naval Facilities Engineering Command Southeast

Prepared by:

TERRAINE
Environmental Consulting

April 2007

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SIGNATURE PAGE

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

James L. Young, P.G., REM President/CEO TERRAINE, Inc.	4/25/07 Date	PG-FL2090, REM-6089 Registration Nos.

JAMES L YOUNG
LICENSE
NO. 2090
STATE OF
FLORIDA
PROFESSIONAL GEOLOGIST

Karen L. Baer Field Superintendent TERRAINE, Inc.	4/25/07 Date

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Active Remediation System Status Report

ACRONYMS

amsl	Above mean sea level
bgs	Below ground surface
BOA	Basic Ordering Agreement
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
°C	degrees Celsius
CTO	Contract Task Order
DO	Dissolved Oxygen
EPA	U.S. Environmental Protection Agency
FAC	Florida Administrative Code
FID	Flame Ionization Detector
FL PRO	Florida Petroleum Residual Organic
Ft.	Feet
Gal/min.	Gallons per minute
GCTL	Groundwater Cleanup Target Levels
LNAPL	Light Non-Aqueous Phase Liquid
µS/cm	microsiemens per centimeter
µg/L	micrograms per liter
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
mL/min	milliliters per minute
mS/cm	millisiemens per centimeter
MTBE	Methyl-tert-butyl-ether
mV	millivolts
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
n/a	not applicable
ND	Non Detect
NGVD	National Geodetic Vertical Datum
NM	Not measured
NR	Not recorded
NS	Not sampled
NTU	Nephelometric Turbidity Units
O&M	Operation and Maintenance
ORP	Oxidation Reduction Potential
PAHs	Polynuclear Aromatic Hydrocarbons
ppm	parts per million
SCTL	Soil Cleanup Target Level
TERRAINE	Terraine, Inc.
TRPH	Total Recoverable Petroleum Hydrocarbons

EXECUTIVE SUMMARY

SCOPE

The objective of the remedial action at the Building 46 site is to reduce the concentrations of petroleum-related contaminants in the groundwater and unsaturated soils to target levels specified by Florida Administrative Code (FAC) 62-777.

To treat the impacted soil and groundwater and thereby achieve state-mandated cleanup target levels, a Nutrient Injection System was installed at the site during the period of November 2000 to January 2001. The Nutrient Injection System commenced operation on January 18, 2001.

As a result of anaerobic conditions in the aquifer which were not conducive to biodegradation of the contaminants of concern, nutrient injection was discontinued in April 2004. Nitrogen and phosphorus are no longer being injected into the subsurface; rather the compressors are currently used to inject air as an oxygen source into the subsurface to enhance the biodegradation of benzene, toluene, ethyl benzene, and xylenes (BTEX), naphthalene, methyl-tert-butyl-ether (MTBE), and total recoverable petroleum hydrocarbons (TRPH).

The purpose of this Annual Operations and Maintenance Report is to provide a summary of activities performed at the site during the period of January 1, 2006 to December 31, 2006.

CONCLUSIONS AND RECOMMENDATIONS

The overall trend for BTEX and MTBE in groundwater appears to be decreasing since the baseline sampling event. TRPH detections in all wells with the exception of CEF-46-1S were below the Groundwater Cleanup Target Level (GCTL) during 2006. Some subsurface soil contaminant concentrations are still sporadically exceeding their respective groundwater leachability criteria.

In December 2006, benzene concentrations exceeded the GCTL in groundwater sampled from CEF-46-1S and -2S. Ethylbenzene concentrations exceeded the GCTL in groundwater sampled from CEF-46-1S. Xylenes exceeded the GCTL in groundwater sampled from CEF-46-1S. MTBE concentrations exceeded the GCTL in groundwater sampled from CEF-46-1S, and -7I.

Air injections should continue along with periodic monitoring of soil and groundwater until contaminant concentrations fall below regulatory limits. Although nutrient injection has been discontinued, ongoing air injection should assist biodegradation of site contaminants. Key field geochemical parameters (pH, dissolved oxygen [DO], and oxidation reduction potential [ORP]) should continue to be monitored to gauge the microbial health of the groundwater. Finally, due to the high sulfate concentrations in some locations (which could be the prime reason for low pH), buffering the system with a neutralizing compound may be necessary.

2006 ANNUAL OPERATIONS AND MAINTENANCE STATUS REPORT

BUILDING 46

NAVAL AIR STATION, CECIL FIELD

JACKSONVILLE, FLORIDA

PREPARED FOR:	Mr. Mark Davidson
PREPARED BY:	*TERRAINE, Inc.*
PERIOD OF PERFORMANCE:	January 1, 2006 to December 31, 2006
FIELD TEAM:	Danny Hockett, Robert Brookshire, Larry Wolski
CONTRACT NUMBER:	N62467-02-G-0352
TASK ORDER NUMBER:	0001
TASK ORDER MANAGER:	James L. Young, P.G.; REM
SUBMITTAL DATE:	April 2007

1.0 INTRODUCTION

Terraine, Inc. (TERRAINE) has been contracted by the Department of the Navy, Naval Facilities Engineering Command (NAVFAC) Southeast, to provide Operation and Maintenance (O&M) services at Building 46, Naval Air Station (NAS) Cecil Field, Jacksonville, Florida, under the **Basic Ordering Agreement (BOA) Contract No. N62467-02-G-0352, Contract Task Order (CTO) No. 0001**. The purpose of this 2006 Annual O&M Report is to provide a summary of activities performed at the site during the period of January 1, 2006 to December 31, 2006.

1.1 Purpose

The objective of the remedial action at the Building 46 site is to reduce concentrations of petroleum-related contaminants in the groundwater and unsaturated soils to target levels specified by Florida Administrative Code (FAC) 62-777.

To treat the impacted soil and groundwater and thereby achieve state-mandated cleanup target levels, a Nutrient Injection System was installed at the site during the period of November 2000 to January 2001. The Nutrient Injection System commenced operation on January 18, 2001. A remediation system/technology description and a more detailed site background and history are provided in the First Quarter O&M Status Report submitted by TERRAINE in June 2004.

As a result of anaerobic conditions in the aquifer which were not conducive to biodegradation of the contaminants of concern, nutrient injection was discontinued in April 2004. Nitrogen and phosphorus are no longer being injected into the subsurface; rather the compressors are currently only used to inject air as an oxygen source into the subsurface to enhance the biodegradation of benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, methyl tert-butyl ether (MTBE), and total recoverable petroleum hydrocarbons (TRPH).

1.2 Site Location and Description

A base map illustrating the site location at NAS Cecil Field is included in **Figure 1, Appendix A**. A site map is included in **Figure 2, Appendix A.**

2.0 INVESTIGATION AND METHODOLOGY SUMMARY

2.1 System Performance Monitoring

The system was shut down for monthly system checks and approximately four weeks throughout the year for quarterly sampling activities. Otherwise, the system did not experience any downtime. Site visit O&M logs are provided in **Appendix B**.

2.2 Water Level Measurements

Depth-to-water measurements were recorded on December 8, 2006 at the monitoring wells which were sampled. The top-of-casing elevation, depth-to-water measurements, and calculated water level elevations are provided in **Table 1, Appendix C**. The locations of the wells are shown on **Figure 2, Appendix A.**

On December 8, 2006, groundwater flow in the intermediate aquifer was to the south-southwest **(Figure 3, Appendix A).** Due to limited data points, groundwater flow in the shallow and deep aquifers could not be determined.

Light Non-Aqueous Phase Liquid (LNAPL) was not noted in any monitoring well during the monitoring period.

2.3 Groundwater Sampling

2.3.1 Methodology

Groundwater sampling was conducted at Building 46 on December 8, 2006. Fourteen (14) wells were purged and sampled using low-flow methodology. Purging of wells consisted of removing groundwater with a Geotech© peristaltic pump at a flow rate less than or equal to the groundwater recharge rate until field parameters (temperature, pH, conductivity, turbidity, dissolved oxygen [DO] and oxidation reduction potential [ORP]) had stabilized. Water levels in the wells were continuously monitored to maintain drawdown at less than 0.3 feet.

Field analytical tests using Hach© kits were performed during the 4th Quarter 2006 sampling event. Groundwater from each of the 14 monitoring wells was tested for carbon dioxide, alkalinity, ferrous iron, hydrogen sulfide, and DO.

The results from the field parameters and field analytical tests are summarized on **Table 2, Appendix C.** Copies of the groundwater purging/sampling logs including all field parameter measurements are provided in **Appendix D**.

2.3.2 Chemical Analysis Suite

Groundwater samples from the monitoring wells were laboratory analyzed for the following analyte suite:

- BTEX and MTBE by U.S. Environmental Protection Agency (EPA) Method 8260B.
- Polynuclear aromatic hydrocarbons (PAHs) by EPA Method 8270C.
- TRPH by Florida Petroleum Residual Organic (FL-PRO).
- Sulfate by EPA Method 300.0.

2.4 Soil Sampling

2.4.1 Methodology

Quarterly soil-screening and sampling was conducted on December 8, 2006 during the 4th Quarter monitoring period. Three soil borings, labeled SB-1, SB-2, and SB-14, were installed. The locations of these soil borings are shown in **Figure 2, Appendix A**. The water table was encountered at approximately 10 feet below land surface. The soil was screened using a Heath© Porta Flame Ionization Detector (FID). The results of the screening are shown in ***Table 5, Appendix C***. A soil sample was collected and sent to the laboratory for analysis from soil borings SB-1 and SB-14 at 8 feet below ground surface (bgs) and from soil boring SB-2 at 10 feet bgs.

2.4.2 Chemical Analysis Suite

Soil collected from the soil borings were laboratory analyzed for the following analyte suite:

- BTEX and MTBE by U.S. EPA Method 8260B
- PAHs by EPA Method 8270C
- TRPH by FL-PRO

2.5 Investigative Derived Waste

Purge water collected from the monitoring wells during the 4th Quarter sampling event was collected and containerized. All investigative derived waste is stored at the Day Tank 1 site in 55-gallon drums and will be transported to Industrial Water Services in Jacksonville, Florida by SWS Environmental First Response in March 2006.

3.0 SUMMARY OF SAMPLING AND LABORATORY ANALYTICAL RESULTS

3.1 Data Validation

A cursory review of quality control data was performed. This review evaluated data completeness, holding time compliance, laboratory blank contamination, and detection limits. The validation process results in qualifiers that are shown with the analyte concentrations in **Tables 3 and 4, Appendix C**.

3.2 Groundwater Monitoring

For the fourth quarter of 2006, laboratory reports indicated groundwater sampled from three (3) wells (CEF-46-1S, -2S, and -7I) had contaminant of concern concentrations exceeding the GCTLs. Groundwater analytical results are summarized in **Table 3, Appendix C**.

3.2.1 BTEX/MTBE

With minor exceptions, the overall trend for BTEX and MTBE appears to be decreasing since the December 2000 baseline sampling event.

In December 2006, benzene concentrations exceeded the GCTL in groundwater sampled from CEF-46-1S and -2S. Ethylbenzene concentrations exceeded the GCTL in groundwater sampled from CEF-46-1S. Xylenes exceeded the GCTL in groundwater sampled from CEF-46-1S.

In December 2006, MTBE concentrations exceeded the GCTL in groundwater sampled from CEF-46-1S, and -7I.

3.2.2 PAHs

PAHs continued to exceed applicable GCTLs in samples from two (2) wells (CEF-46-1S and -7I) during 2006.

Naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene exceeded their respective GCTL at well CEF-46-1S during all four quarters of monitoring in 2006. Naphthalene has exceeded its GCTL since the initial sampling event in December 2000. 1-methylnaphthalene, and 2-methylnaphthalene have each exceeded their GCTLs since the second quarter of 2003.

Naphthalene was also detected at concentrations greater than the GCTL in groundwater sampled from monitoring well CEF-46-7I during the first, second, and third quarters of 2006.

3.2.3 TRPH

TRPH exceeded its GCTL in groundwater sampled from monitoring well CEF-46-1S during the first, second, and third quarters of 2006. TRPH detections at all other wells were below the GCTL during 2006.

3.2.4 Sulfate

Sulfate was measured beginning in June 2005. As shown in **Table 3**, six of the wells show sulfate exceeding its GCTL of 250 mg/L in groundwater in December 2006. The greatest exceedance in 2006 occurred in CEF-46-5I (14,400 mg/L). Sulfate may be naturally occurring in the intermediate and shallow aquifers and is a possible reason for the relatively low pH in the area. While sulfate may have an impact on the pH, it is a potential electron acceptor for BTEX biodegradation and hence contributes to the overall decrease of these contaminants over time.

3.3 Groundwater Field Test Kits/Field Parameter Readings

Field parameters monitored during the 2006 groundwater sampling included pH, conductivity, DO, ORP, temperature, carbon dioxide, alkalinity, ferrous iron, and hydrogen sulfide. Measurements were collected using either a YSI556© multimeter or Hach© test kits. Field measurements are presented in **Table 2, Appendix C**.

Groundwater pH: The pH of the groundwater is variable, but the site as a whole shows a pH decrease compared to results of 2000. Some locations have pH values which could reduce microbial activity. In December 2006, 13 of the 14 wells had pH levels less than 6, and 9 of 14 wells had pH levels less than 4. Low pHs can be attributed to acid formation (phosphoric and nitric) resulting from the former injection of nutrients, the presence of high concentrations of natural sulfate, and possible production of metabolic acids and carbon dioxide from microbial degradation activity. Irrespective of the cause, the pH of groundwater in several area monitoring wells continues to be relatively low and that could result in continuation of lower degradation rates.

Groundwater Temperature: In general, groundwater temperatures in all three (3) zones are above 20 degrees centigrade, well within the 10-45 degree range within which microorganisms generally flourish. Temperatures remain stable throughout the year, suggesting that kinetic activity should not be impacted by seasonal changes.

Conductivity: Conductivity shows large temporal changes; no trends and patterns could be discerned.

Dissolved Oxygen (DO): Though DO is variable, site-wide there appears to have been a general decline from the 1 to 2 mg/L range in 2000 to values less than 1 mg/L in 2006. The major implication of this anaerobic environment is lowered degradation rates because petroleum constituents such as BTEX, MTBE, and naphthalene are reduced much more gradually under such conditions.

Oxidation-Reduction Potential: ORP is variable at this site. Low ORP in the shallow wells is likely the result of injection towards the intermediate and deep zones of the aquifer.

Carbon Dioxide: Field test results indicate that carbon dioxide levels are variable and do not show a definite pattern or trend.

Alkalinity: Field test results indicate that alkalinity levels are variable and do not show a definite pattern or trend.

Ferrous Iron: Ferrous iron tended to fluctuate at each well over time. The data suggest an overall increase in ferrous iron at the site. Variability in this parameter may be naturally occurring due to seasonal effects, influenced by low DO values and anaerobic degradation taking place at specific localities within the area being remediated.

Hydrogen Sulfide: Hydrogen sulfide is quite variable both spatially and temporally. This might be influenced, in part, by variations in anaerobic degradation at different parts of the site.

3.4 Soil Monitoring

The baseline-sampling event, conducted December 20, 2000, revealed that soil samples collected from the three borings (SB-1, SB-2, SB-14) had contaminant concentrations above the soil cleanup target levels (SCTLs) per Chapter 62-777 FAC. Soil-screening and sampling was conducted on a quarterly basis during 2006. The locations of the soil borings are shown on **Figure 2, Appendix A**. Soil analytical results are summarized in **Table 4, Appendix C**.

3.4.1 BTEX/MTBE

Benzene concentrations were below reporting limits all four (4) quarters in 2006 in soil sampled from SB-1. Concentrations of ethylbenzene, toluene, and xylenes in soil sampled from soil boring SB-1 exceeded their respective SCTLs during the first quarter of 2006. MTBE exceeded the SCTL during the third quarter of 2006.

Benzene concentrations were below reporting limits all four (4) quarters in 2006 in soil sampled from SB-2. Ethylbenzene exceeded the SCTL in soil sampled from SB-2 during the first and second quarter of 2006. Toluene exceeded the SCTL during the first quarter 2006 and xylenes exceeded the SCTL in soil sampled from SB-2 during the first, second, and fourth quarters of 2006. MTBE exceeded the SCTL during the third quarter of monitoring in 2006.

Benzene exceeded the SCTL in soil sampled from SB-14 during the first and fourth quarter 2006. Ethyl benzene and toluene exceeded the SCTL in soil sampled from SB-14 during the fourth quarter of 2006. Xylenes exceeded the SCTL in soil samples from SB-14 during the third and fourth quarter and MTBE exceeded the SCTL during the third quarter 2006.

3.4.2 PAHs

Naphthalene exceeded the SCTL in soil sampled from soil boring SB-1 during the first quarter of 2006.

Naphthalene exceeded the SCTL in soil sampled from soil boring SB-2 during the first and second quarter of 2006.

Naphthalene exceeded the SCTL in soil sampled from soil boring SB-14 during the fourth quarter of 2006.

3.4.3 TRPH

Soil laboratory analytical results revealed that TRPH concentrations at SB-1 and SB-14 were below the SCTL during all four quarters of monitoring in 2006.

Soil laboratory analytical results revealed that TRPH concentrations at SB-2 exceeded the SCTL during the second quarter of monitoring in 2006.

4.0 EVALUATION OF REMEDIATION SYSTEM PERFORMANCE

Because anaerobic and low pH conditions in the aquifer were not very conducive to biodegradation of the contaminants of concern, both the east and west nutrient injection systems were discontinued in April 2004. Nitrogen and phosphorus are no longer being injected into the subsurface; rather the compressors are currently used only to inject air through the system to provide oxygen for the continued biodegradation of site contaminants. Site conditions are changing very gradually. System optimization is considered necessary in order to more efficiently achieve cleanup goals. An Active Remediation Status Report Summary is included in **Appendix E.**

5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Conclusions

The fourth quarter of 2006 marked the completion of six years of remediation system operation and quarterly soil and groundwater monitoring. Because subsurface conditions disfavor anaerobic microbial degradation of contaminants, nutrient enhancement in the east and west remediation systems was discontinued in April 2004. The system now pumps air to the subsurface to enhance biodegradation. In spite of the scale-back of the remediation system, recent sampling results indicate reductions in contaminant concentrations in both soil and groundwater compared to the December 2000 baseline sampling results. This indicates continued microbial degradation of the petroleum contaminants in soil and groundwater.

5.2 Recommendations

Air injections should continue along with periodic monitoring of soil and groundwater until contaminant concentrations fall below regulatory limits. Although nutrient injection has been discontinued, ongoing air injection should assist biodegradation of site contaminants. Key field geochemical parameters (pH, DO, and ORP) should continue to be monitored to gauge the microbial health of the groundwater. Finally, due to the high sulfate concentrations in some locations (which could be the prime reason for low pH), buffering the system with a neutralizing compound may be necessary.

6.0 REFERENCES

Florida Department of Environmental Protection, 1999.
Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C. CEHT/TR-99-01, May.

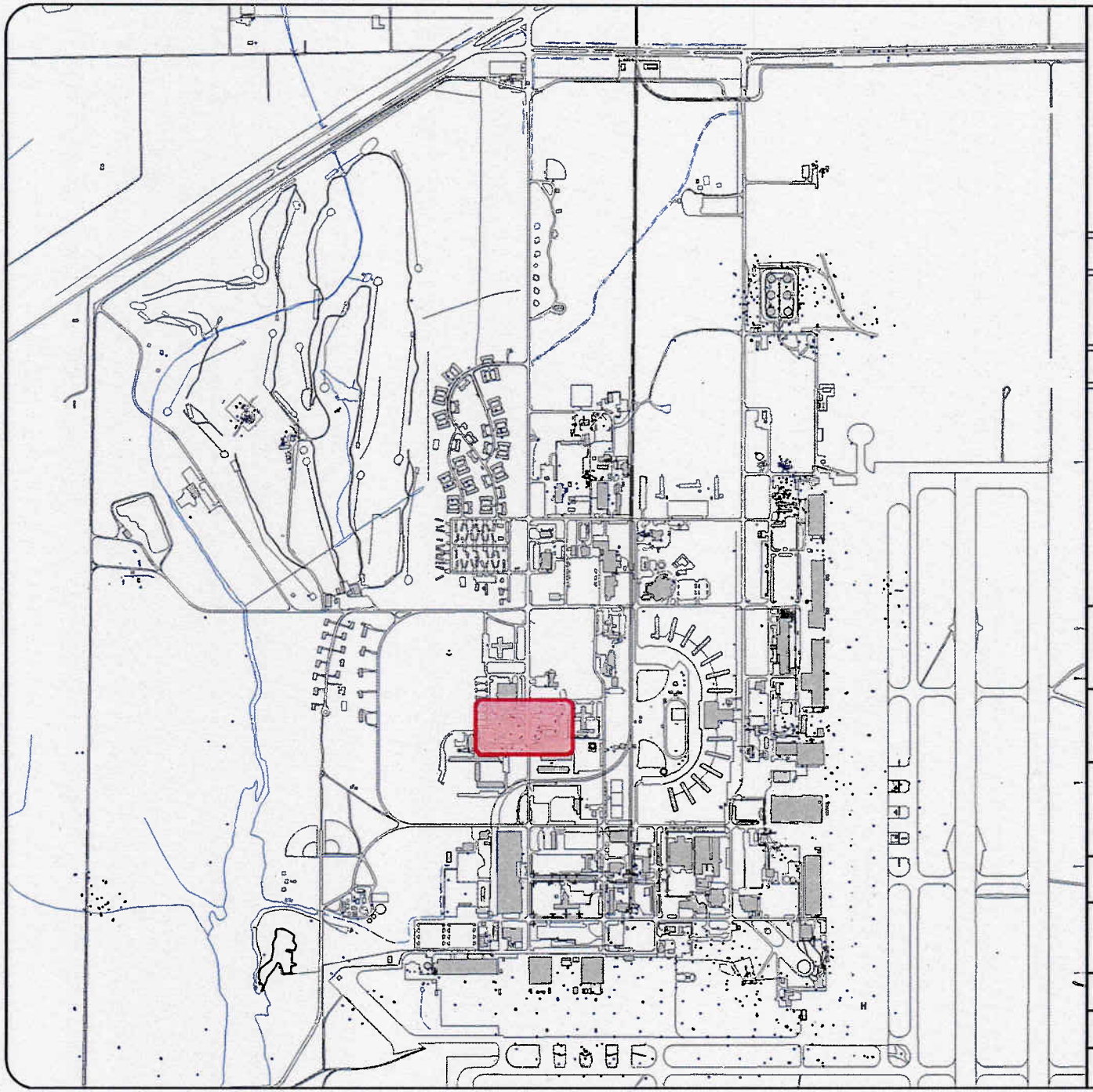
Terraine, Inc. Third Quarter, 2004 Operations and Maintenance Status Report, Nutrient Injection System, Building 46, Naval Air Station, Cecil Field, Jacksonville, Florida.

Terraine, Inc. Third Quarter, 2005 Operations and Maintenance Status Report, Nutrient Injection System, Building 46, Naval Air Station, Cecil Field, Jacksonville, Florida.

APPENDIX A

FIGURES

Figure 1	*Site Location Map, Building 46*
Figure 2	*Site Map, Building 46*
Figure 3	*Groundwater Elevation Map, Intermediate Zone*



N
W E
S

NOTES

Sources: Environmental IR Gateway (www.sdirport.com)

LEGEND

APPROXIMATE SITE BOUNDARY

0 0.25 0.5

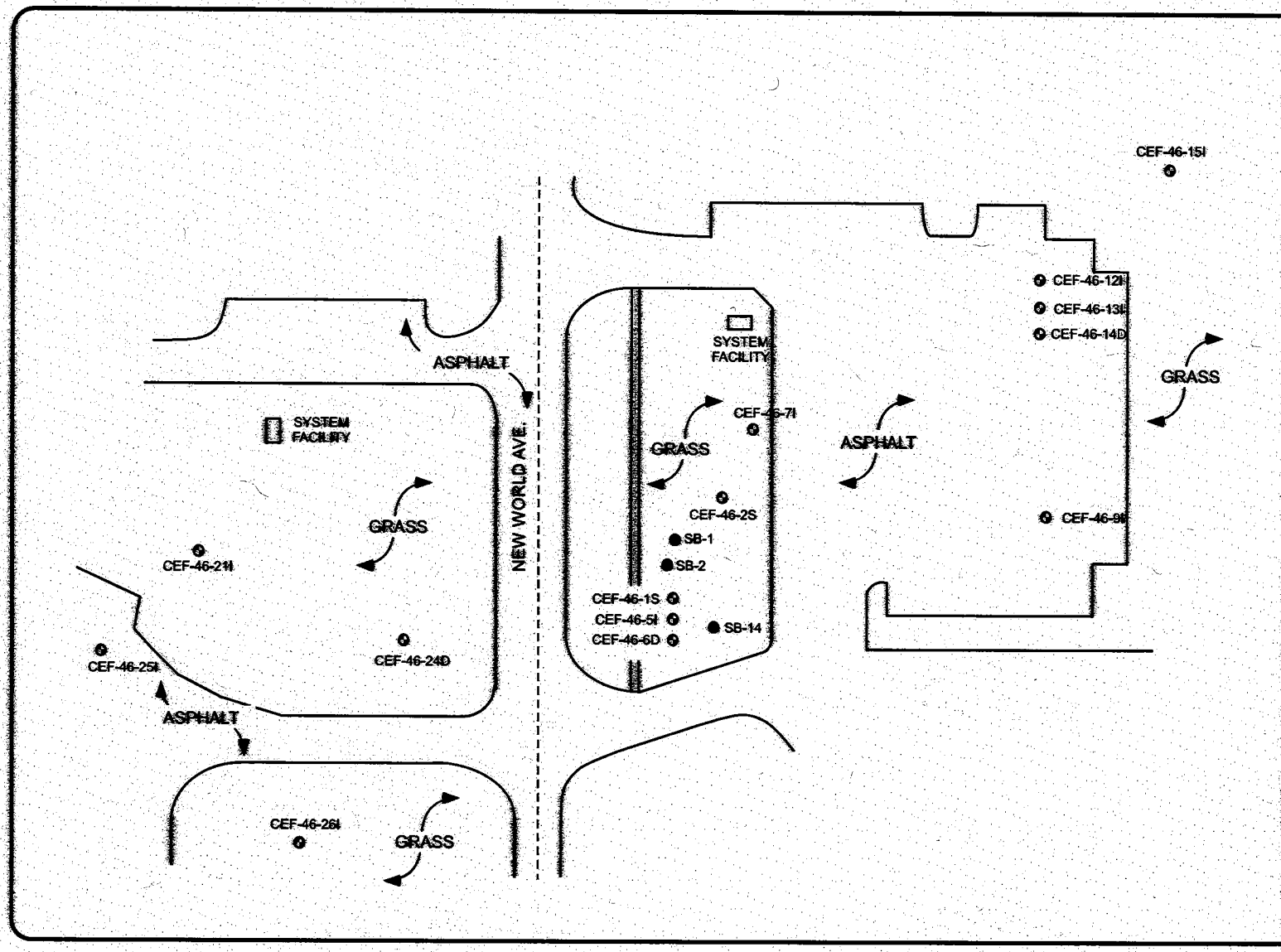
APPROXIMATE SCALE IN MILES

TERRAINE
Environmental Consulting

NAS CECIL FIELD
FIGURE 1: SITE LOCATION MAP
BUILDING 46

Prepared For:
U.S. Naval Facilities Engineering Command, Southeast

DWN BY: LFW	CHK BY: KBG
SCALE: SEE LEGEND	APR BY: JLY
DATE:10/12/04	FILE: N/A



N
W E
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NOTES

LEGEND

- MONITORING WELL
- SOIL BORING

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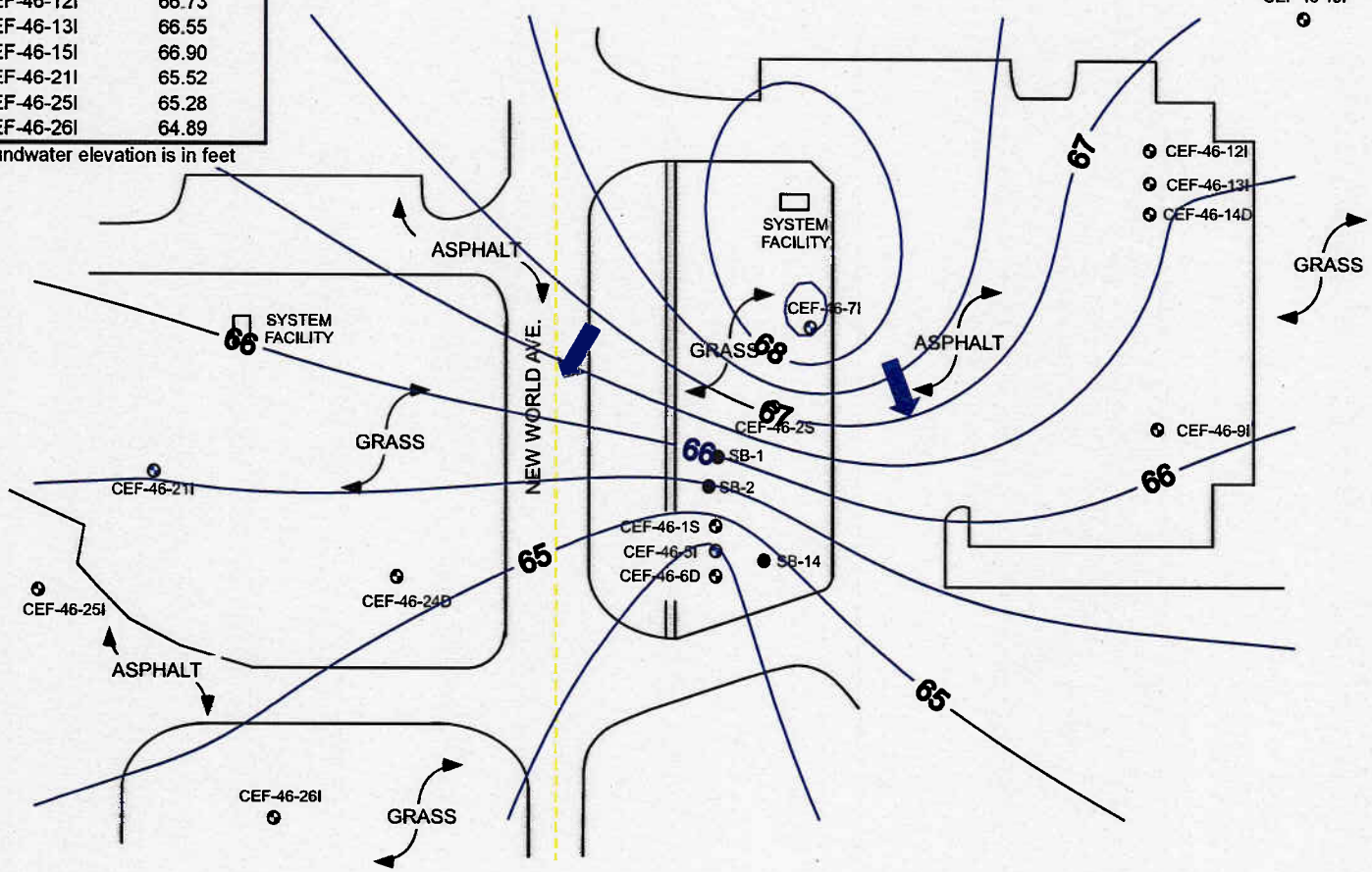
NAS CECIL FIELD
FIGURE 2: SITE MAP
BUILDING 46

Prepared For:
U.S. Naval Facilities Engineering Command, Southeast

DWN BY: KLB	CHK BY: LFW
	APR BY: JLY
DATE: 1/04/2007	FILE: 04-41001

Well ID	Groundwater Elevation
CEF-46-5I	64.36
CEF-46-7I	68.67
CEF-46-9I	66.15
CEF-46-12I	66.73
CEF-46-13I	66.55
CEF-46-15I	66.90
CEF-46-21I	65.52
CEF-46-25I	65.28
CEF-46-26I	64.89

Groundwater elevation is in feet



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NOTES

Contour plot generated using kriging algorithm with linear variogram model.

LEGEND

- MONITORING WELL
- SOIL BORING
- Indicates groundwater flow direction

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NAS CECIL FIELD
FIGURE 3: GROUNDWATER ELEVATION MAP, INTERMEDIATE ZONE BUILDING 46

Prepared For:
U.S. Naval Facilities Engineering Command, Southeast

DWN BY: KLB	CHK BY: LFW
	APR BY: JLY
DATE: 1/04/2007	FILE: 04-41001

APPENDIX B

Site Visit Operation and Maintenance Logs

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	1/17/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	1:00 PM
Personnel on Site:	L E Priester	**Departure Time:**	2:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			37,975.2		
Pressure Hour Meter (Hours)			37,891.8		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	OK
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	Phone line not functioning.
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Checked filters--OK
Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004

One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	1/17/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	1:00 PM
Personnel on Site:	L E Priester	**Departure Time:**	2:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			4,244.0		
Pressure Hour Meter (Hours)			37,589.5		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary	None		None		AG Jax
Cylinder 3 (psig, primary/secondary	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulator	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	Needs replacement Use spare on East side
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	Phone line disconnected
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flows continue to be directed towards maintenance of treatment area.
Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004

Reset Compressor #2

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	2/21/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	1:00 PM
Personnel on Site:	L E Priester	**Departure Time:**	2:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			38,814.2		
Pressure Hour Meter (Hours)			38,730.7		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	OK
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	Phone line not functioning.
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Checked filters--OK
Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004

One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	2/21/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	1:00 PM
Personnel on Site:	L E Priester	**Departure Time:**	2:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			5,083.1		
Pressure Hour Meter (Hours)			38,428.6		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary	None		None		AG Jax
Cylinder 3 (psig, primary/secondary	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulator	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	Needs replacement Use spare on East side
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	Phone line disconnected
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK
Additional Notes:	Flows continue to be directed towards maintenance of treatment area. Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004 Reset Compressor #2

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	3/22/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			39,506.0		
Pressure Hour Meter (Hours)			39,419.0		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	OK
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	Phone line not functioning.
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Checked filters--OK
Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004

One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	3/22/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			5,763.0		
Pressure Hour Meter (Hours)			39,108.0		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary)	None		None		AG Jax
Cylinder 3 (psig, primary/secondary)	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulator	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	Phone line disconnected
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flows continue to be directed towards maintenance of treatment area.
Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004

Reset Compressor #2

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	4/18/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			40,056.0		
Pressure Hour Meter (Hours)			39,969.0		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	OK
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	Phone line not functioning.
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Checked filters--OK
Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004

One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	4/18/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			6,303.0		
Pressure Hour Meter (Hours)			39,645.0		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary)	None		None		AG Jax
Cylinder 3 (psig, primary/secondary)	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulator	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	Phone line disconnected
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK
Additional Notes:	Flows continue to be directed towards maintenance of treatment area. Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004 Reset Compressor #2

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	5/23/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			40,266.0		
Pressure Hour Meter (Hours)			40,174.0		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	OK
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	Phone line not functioning.
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Checked filters--OK
Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004

One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	5/23/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			6,513.0		
Pressure Hour Meter (Hours)			39,850.0		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary)	None		None		AG Jax
Cylinder 3 (psig, primary/secondary)	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulator	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	Phone line disconnected
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flows continue to be directed towards maintenance of treatment area.
Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004

Reset Compressor #2

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	6/8/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			40,406.8		
Pressure Hour Meter (Hours)			40,323.4		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	OK
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	Phone line not functioning.
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Checked filters--OK
Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004

One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	6/8/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			6,675.8		
Pressure Hour Meter (Hours)			40,021.0		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary)	None		None		AG Jax
Cylinder 3 (psig, primary/secondary)	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulator	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	Phone line disconnected
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flows continue to be directed towards maintenance of treatment area.
Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004

Reset Compressor #2

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	7/12/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			41,179.0		
Pressure Hour Meter (Hours)			41,096.0		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	OK
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Checked filters--OK
Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004

One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	7/12/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			7,448.0		
Pressure Hour Meter (Hours)			40,794.0		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary)	None		None		AG Jax
Cylinder 3 (psig, primary/secondary)	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flows continue to be directed towards maintenance of treatment area.
Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004

Reset Compressor #2

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	8/15/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			41,962.0		
Pressure Hour Meter (Hours)			41,879.0		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	OK
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Checked filters--OK
Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004

One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	8/15/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	10:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	12:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			8,231.0		
Pressure Hour Meter (Hours)			41,576.0		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary)	None		None		AG Jax
Cylinder 3 (psig, primary/secondary)	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK
Additional Notes:	Flows continue to be directed towards maintenance of treatment area. Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004 Reset Compressor #2

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	9/12/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	11:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	1:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			42,608.0		
Pressure Hour Meter (Hours)			42,525.0		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	OK
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Checked filters--OK
Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004

One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	9/12/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	11:00 AM
Personnel on Site:	L E Priester	**Departure Time:**	1:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			9,513.0		
Pressure Hour Meter (Hours)			42,858.0		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary)	None		None		AG Jax
Cylinder 3 (psig, primary/secondary)	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flows continue to be directed towards maintenance of treatment area.
Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004

Reset Compressor #2

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	10/10/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	10:30 AM
Personnel on Site:	L E Priester	**Departure Time:**	1:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			43,244.0		
Pressure Hour Meter (Hours)			43,161.0		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	OK
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Checked filters--OK
Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004

One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	10/10/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	10:30 AM
Personnel on Site:	L E Priester	**Departure Time:**	1:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			9,513.0		
Pressure Hour Meter (Hours)			42,858.0		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary)	None		None		AG Jax
Cylinder 3 (psig, primary/secondary)	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flows continue to be directed towards maintenance of treatment area.
Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004

Reset Compressor #2

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	11/14/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	10:30 AM
Personnel on Site:	L E Priester	**Departure Time:**	1:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			44,047.0		
Pressure Hour Meter (Hours)			43,963.0		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	Tripped out- Replaced this compressor as part of PM.
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK
Additional Notes:	Flow continues to be directed to plume hot spot. Checked filters--OK Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004 One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	11/14/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	10:30 AM
Personnel on Site:	L E Priester	**Departure Time:**	1:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			10,316.0		
Pressure Hour Meter (Hours)			43,661.0		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary)	None		None		AG Jax
Cylinder 3 (psig, primary/secondary)	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flows continue to be directed towards maintenance of treatment area.
Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004

Reset Compressor #2

Left Maintenance trailer on-site for next month O&M

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	12/11/2006
Site Name: Cecil Field Site 46 East		**Arrival Time:**	10:30 AM
Personnel on Site:	L E Priester	**Departure Time:**	1:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			44,719.0		
Pressure Hour Meter (Hours)			44,635.0		
Air Supply					
Leg 1 (PSIG)		50	50		
Leg 2 (PSIG)		50	50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		
Cylinder 2 (psig, primary/secondary)	None		None		Nitrous off per Navy
Cylinder 3 (psig, primary/secondary)	None		None		
Cylinder 4 (psig, primary/secondary)	None		None		
Cylinder 5 (psig, primary/secondary)	None		None		
Flow Meter (CFH)		0		0	
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.75		0.75		Turned Off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I4 (Valve % Open/CFM)	0		0		No change to air flow distribution to leg 1 .
Inj. Well I5 (Valve % Open/CFM)	100		100		
Inj. Well D9 (Valve % Open/CFM)	0		0		
Inj. Well D10 (Valve % Open/CFM)	0		0		
Inj. Well D11 (Valve % Open/CFM)	0		0		
Inj. Well I2 (Valve % Open/CFM)	0		0		
Inj. Well I3 (Valve % Open/CFM)	100		100		
Inj. Well I6 (Valve % Open/CFM)	100		100		
Inj. Well I7 (Valve % Open/CFM)	100		100		
Inj. Well I8 (Valve % Open/CFM)	0		0		
Inj. Well I1 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		No change to air flow distribution to leg 2 .
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	100		100		
Inj. Well D4 (Valve % Open/CFM)	50		50		
Inj. Well D5 (Valve % Open/CFM)	0		0		
Inj. Well D6 (Valve % Open/CFM)	25		25		
Inj. Well D7 (Valve % Open/CFM)	25		25		
Inj. Well D8 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK-Off No N20
Nitrous Oxide Solenoid Valve	OK-Off No N20
TEP System	OK-Off
AC Gast M853 Mod 5K49ZN4223	
#1	Running
#2	Turned off
#3	Turned off
#4	Turned off
Air Legs/ Solenoid Valves	OK
Ventilation Fans	OK. Roof fan OK. Verified thermostat function.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flow continues to be directed to plume hot spot.
Checked filters--OK
Removed all Nitrous Oxide Cylinders per Navy (Magwood) in March 2004

One three phase 6LDH is in trailer for spare.

pHA-ER OPERATION and MAINTENANCE LOG		**Date:**	12/11/2006
Site Name: Cecil Field Site 46 West		**Arrival Time:**	10:30 AM
Personnel on Site:	L E Priester	**Departure Time:**	1:00 PM

Exterior Parameters	**Arrival**		**Departure**		**Comments**
Power Disconnect (On/Off)	On		On		
Power Hour Meter (Hours)			10,964.0		
Pressure Hour Meter (Hours)			44,309.0		
Air Supply					
Leg 1 (PSIG)	50		50		
Leg 2 (PSIG)	50		50		
Nitrous Oxide					
Cylinder 1 (psig, primary/secondary)	None		None		AG Jax No Nitrous Oxide per Navy
Cylinder 2 (psig, primary/secondary)	None		None		AG Jax
Cylinder 3 (psig, primary/secondary)	None		None		AG Jax
Flow Meter (CFH)	0		0		
Adjunct Gas					
Cylinder 1 (psig, primary/secondary)	NA		NA		
Flow Meter					
TEP					
Gallons (US, Liq.)	0.55		0.55		TEP turned off per Navy
Air Flow (CFM)	0		0		
Air Flow					
Inj. Well I1 (Valve % Open/CFM)	0		0		No change to flow rates.
Inj. Well I2 (Valve % Open/CFM)	25		25		
Inj. Well I3 (Valve % Open/CFM)	0		0		
Inj. Well I4 (Valve % Open/CFM)	25		25		
Inj. Well I5 (Valve % Open/CFM)	25		25		
Inj. Well I8 (Valve % Open/CFM)	25		25		No change to flow rates.
Inj. Well I6 (Valve % Open/CFM)	25		25		Set up for maintenance flow.
Inj. Well I7 (Valve % Open/CFM)	0		0		
Inj. Well D1 (Valve % Open/CFM)	100		100		
Inj. Well D2 (Valve % Open/CFM)	100		100		
Inj. Well D3 (Valve % Open/CFM)	0		0		

Maintenance Information	**Maintenance Performed**
Nitrous System Cylinders/Regulators	OK. No N2O
Nitrous Oxide Solenoid Valve	OK. No N2O
TEP System	OK -Off
AC Gast M853 Mod 5K49ZN4223	
#1 SN 0103706074	OK
#2 SN 0103706070	OK
#3 SN 0103706076	Removed
#4 SN0103706073	Turned off.
Air Legs/ Solenoid Valves	OK.
Ventilation Fan	OK.
Primary Electrical System	OK
PLC-Telemetry	OK
Relay Assembly	OK
Pressure Switch	OK
Flow Switch	OK

Additional Notes:

Flows continue to be directed towards maintenance of treatment area.
Removed all Nitous Oxide cylinders per Navy (Magwood) in March 2004

All running OK

Maintenance trailer still on-site

APPENDIX C

TABLES

Table 1	*Groundwater Elevation and Free Product Data*
Table 2	*Groundwater Field Analytical Results*
Table 3	*Groundwater Analytical Results*
Table 4	*Soil Analytical Results*

TABLE 1
GROUNDWATER ELEVATION AND FREE PRODUCT DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Well Total Depth (Feet BGS)	Date	Top of Casing Elevation (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Water Level Elevation (Feet)
CEF-46-1S	14.24	12/21/00	79.08	No Product	4.94	74.14
		03/14/03		No Product	2.55	76.53
		06/09/03		No Product	2.40	76.68
		09/03/03		No Product	3.42	75.66
		12/11/03		No Product	5.20	73.88
		03/18/04		No Product	5.92	73.16
		06/08/04		No Product	7.80	71.28
		09/21/04		No Product	3.42	75.66
		12/01/04		No Product	7.06	72.02
		03/13/05		No Product	9.00	70.08
		06/09/05		No Product	9.04	70.04
		09/06/05		No Product	6.95	72.13
		12/06/05		No Product	8.79	70.29
		03/29/06		No Product	9.31	69.77
		06/09/06		No Product	10.95	68.13
		09/24/06		No Product	12.60	66.48
		12/08/06		No Product	12.52	66.56
CEF-46-2S	13.88	12/21/00	79.08	No Product	5.02	74.06
		03/14/03		No Product	2.55	76.53
		06/05/03		No Product	3.75	75.33
		09/03/03		No Product	2.70	76.38
		12/11/03		No Product	5.04	74.04
		03/18/04		No Product	6.02	73.06
		06/08/04		No Product	7.80	71.28
		09/21/04		No Product	3.75	75.33
		12/01/04		No Product	7.02	72.06
		03/13/05		No Product	8.86	70.22
		06/09/05		No Product	8.95	70.13
		09/06/05		No Product	6.70	72.38
		09/21/05		No Product	6.60	72.48
		12/06/05		No Product	8.23	70.85
		03/30/06		No Product	9.22	69.86
		06/09/06		No Product	10.83	68.25
		09/24/06		No Product	11.54	67.54
		12/08/06		No Product	12.32	66.76
CEF-46-3S	15.00	12/06/05	79.14	No Product	9.10	69.95
CEF-46-4S	15.00	12/06/05	79.29	No Product	8.85	70.44
CEF-46-5I	49.65	12/21/00	79.18	No Product	5.81	73.37
		03/14/03		No Product	3.40	75.78
		06/05/03		No Product	4.90	74.28
		09/03/03		No Product	6.25	72.93
		12/11/03		No Product	6.64	72.54
		03/18/04		No Product	7.89	71.29
		06/08/04		No Product	9.40	69.78
		09/21/04		No Product	5.71	73.47
		12/01/04		No Product	9.23	69.95
		03/13/05		No Product	10.11	69.07
		06/09/05		No Product	10.45	68.73
		09/06/05		No Product	8.63	70.55
		12/06/05		No Product	10.01	69.17
		03/29/06		No Product	10.68	68.50
		06/09/06		No Product	11.95	67.23
		09/24/06		No Product	12.62	66.56
		12/08/06		No Product	14.82	64.36
CEF-46-6D	79.82	12/21/00	79.17	No Product	7.40	71.77
		03/14/03		No Product	6.50	72.67
		06/09/03		No Product	8.00	71.17
		09/03/03		No Product	5.82	73.35
		12/10/03		No Product	7.30	71.87
		03/16/04		No Product	10.60	68.57
		06/08/04		No Product	11.69	67.48
		09/21/04		No Product	7.46	71.71
		12/01/04		No Product	9.72	69.45
		03/13/05		No Product	10.58	68.59
		06/09/05		No Product	10.20	68.97
		09/06/05		No Product	9.60	69.61
		12/06/05		No Product	10.95	68.22
		03/29/06		No Product	10.78	68.39
		06/09/06		No Product	12.24	66.93
		09/24/06		No Product	9.21	69.96
		12/08/06		No Product	16.90	62.27
CEF-46-7I	29.68	12/21/00	79.02	No Product	5.45	73.57
		03/14/03		No Product	3.30	75.72
		06/09/03		No Product	3.20	75.82
		09/03/03		No Product	2.80	76.22
		12/11/03		No Product	5.84	73.18
		03/18/04		No Product	7.40	71.62
		06/08/04		No Product	8.80	70.22
		09/21/04		No Product	4.95	74.07
		12/01/04		No Product	8.60	70.42
		03/13/05		No Product	9.71	69.31
		06/09/05		No Product	9.40	69.62
		09/06/05		No Product	7.19	71.83
		12/06/05		No Product	9.00	70.02
		03/30/06		No Product	9.91	69.11
		06/09/06		No Product	11.30	67.72
		09/24/06		No Product	11.82	67.20
		12/08/06		No Product	10.35	68.67
CEF-46-8I	30.50	12/06/05	78.91	No Product	9.10	69.81

TABLE 1
GROUNDWATER ELEVATION AND FREE PRODUCT DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Well Total Depth (Feet BGS)	Date	Top of Casing Elevation (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Water Level Elevation (Feet)
CEF-46-9I	48.81	12/21/00	79.05	No Product	5.67	73.38
		03/14/03		No Product	2.55	76.50
		06/04/03		No Product	4.10	74.95
		09/03/03		No Product	3.32	75.73
		12/11/03		No Product	5.79	73.26
		03/16/04		No Product	7.20	71.85
		06/08/04		No Product	8.92	70.13
		09/21/04		No Product	5.29	73.76
		12/01/04		No Product	8.44	70.61
		03/13/05		No Product	9.58	69.47
		06/09/05		No Product	9.78	69.27
		09/06/05		No Product	7.86	71.19
		12/06/05		No Product	9.40	69.65
		03/30/06		No Product	9.95	69.10
		06/09/06		No Product	11.32	67.73
		09/24/06		No Product	11.89	67.16
		12/08/06		No Product	12.90	66.15
CEF-46-10I	30.50	12/06/05	80.18	No Product	9.08	71.10
CEF-46-11I	50.50	12/06/05	80.23	No Product	9.73	70.50
CEF-46-12I	29.61	12/21/00	78.73	No Product	5.23	73.50
		03/14/03		No Product	2.10	76.63
		06/05/03		No Product	3.30	75.43
		09/03/03		No Product	2.90	75.83
		12/11/03		No Product	5.45	73.28
		03/16/04		No Product	6.45	72.28
		06/08/04		No Product	8.10	70.63
		09/21/04		No Product	4.30	74.43
		12/01/04		No Product	7.25	71.48
		03/13/05		No Product	8.70	70.03
		06/09/05		No Product	8.80	69.93
		09/06/05		No Product	6.80	71.93
		12/06/05		No Product	8.35	70.38
		03/29/06		No Product	8.93	69.80
		06/09/06		No Product	10.54	68.19
		09/25/06		No Product	11.13	67.60
		12/08/06		No Product	12.00	66.73
CEF-46-13I	39.56	12/21/00	78.87	No Product	5.43	73.44
		03/14/03		No Product	2.31	76.56
		06/05/03		No Product	3.50	75.37
		09/03/03		No Product	3.10	75.77
		12/11/03		No Product	5.90	72.97
		03/16/04		No Product	6.85	72.02
		06/08/04		No Product	8.61	70.26
		09/21/04		No Product	4.65	74.22
		12/01/04		No Product	7.60	71.27
		03/13/05		No Product	8.91	69.96
		06/09/05		No Product	9.10	69.77
		09/06/05		No Product	7.15	71.72
		12/06/05		No Product	8.64	70.23
		03/29/06		No Product	9.17	69.70
		06/09/06		No Product	10.95	67.92
		09/25/06		No Product	11.36	67.51
		12/08/06		No Product	12.32	66.55
CEF-46-14D	76.79	12/21/00	76.88	No Product	4.86	72.02
		03/14/03		No Product	4.20	74.68
		06/04/03		No Product	6.15	72.73
		09/03/03		No Product	5.15	73.73
		12/10/03		No Product	7.20	71.68
		03/16/04		No Product	6.72	70.16
		06/08/04		No Product	9.75	69.13
		09/21/04		No Product	5.34	73.54
		12/01/04		No Product	7.66	71.22
		03/13/05		No Product	8.54	70.34
		06/09/05		No Product	9.74	69.14
		09/06/05		No Product	8.09	70.79
		12/06/05		No Product	8.42	70.46
		03/28/06		No Product	9.50	69.38
		06/09/06		No Product	10.70	68.18
		09/24/06		No Product	11.14	67.74
		12/08/06		No Product	13.74	65.14
CEF-46-15I	29.77	12/21/00	79.75	No Product	6.33	73.42
		03/13/03		No Product	3.47	76.28
		06/04/03		No Product	4.54	75.21
		09/03/03		No Product	4.22	75.53
		12/10/03		No Product	6.53	73.22
		03/16/04		No Product	7.40	72.35
		06/08/04		No Product	9.22	70.53
		09/21/04		No Product	5.20	74.55
		12/01/04		No Product	8.07	71.68
		03/13/05		No Product	9.31	70.44
		06/09/05		No Product	9.54	70.21
		09/06/05		No Product	7.69	72.06
		12/06/05		No Product	9.10	70.65
		03/30/06		No Product	9.95	69.80
		06/09/06		No Product	11.46	68.29
		09/24/06		No Product	11.95	67.80
		12/08/06		No Product	12.85	66.90

TABLE 1
GROUNDWATER ELEVATION AND FREE PRODUCT DATA

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well Identification	Well Total Depth (Feet BGS)	Date	Top of Casing Elevation (Feet)	Depth to Product (Feet)	Depth to Water (Feet)	Water Level Elevation (Feet)
CEF-46-16I	60.00	12/06/05	79.42	No Product	8.96	70.46
CEF-46-17D	60.50	12/06/05	79.16	No Product	8.79	70.37
CEF-46-18I	30.50	12/07/05	78.54	No Product	9.44	69.10
CEF-46-19I	60.50	12/07/05	78.88	No Product	10.55	68.33
CEF-46-20I	30.50	12/07/05	79.34	No Product	9.60	69.74
CEF-46-21I	29.70	12/21/00	79.33	No Product	6.02	73.31
		03/13/03		No Product	2.79	76.54
		06/05/03		No Product	4.18	75.15
		09/03/03		No Product	3.70	75.63
		12/11/03		No Product	7.50	71.83
		03/18/04		No Product	8.35	70.98
		06/08/04		No Product	10.10	69.23
		09/21/04		No Product	5.80	73.53
		12/01/04		No Product	9.15	70.18
		03/13/05		No Product	10.60	68.73
		06/10/05		No Product	10.90	68.43
		09/06/05		No Product	NR	NR
		12/07/05		No Product	10.11	69.22
		03/29/06		No Product	10.60	68.73
		06/09/06		No Product	12.18	67.15
		09/24/06		No Product	12.97	66.36
		12/06/06		No Product	13.81	65.52
CEF-46-22I	60.50	12/07/05	79.22	No Product	9.91	69.31
CEF-46-23D	92.50	12/07/05	NA	No Product	11.18	NA
CEF-46-24D	90.45	12/21/00	78.74	No Product	7.30	71.44
		03/14/03		No Product	13.78	64.96
		06/05/03		No Product	6.40	72.34
		09/03/03		No Product	4.97	73.77
		12/10/03		No Product	7.40	71.34
		03/18/04		No Product	8.95	69.79
		06/08/04		No Product	10.68	68.06
		09/21/04		No Product	6.31	72.43
		12/01/04		No Product	9.11	69.63
		03/13/05		No Product	9.92	68.82
		06/09/05		No Product	10.28	68.46
		09/06/05		No Product	8.93	69.81
		12/07/05		No Product	9.92	68.82
		03/29/06		No Product	10.15	68.59
		06/09/06		No Product	11.69	67.05
		09/24/06		No Product	12.12	66.62
		12/06/06		No Product	13.69	65.05
CEF-46-25I	50.45	12/21/00	79.17	No Product	6.25	72.92
		03/13/03		No Product	2.49	76.68
		06/04/03		No Product	3.98	75.19
		09/03/03		No Product	3.50	75.67
		12/10/03		No Product	5.98	73.19
		03/18/04		No Product	8.30	70.87
		06/08/04		No Product	10.03	69.14
		09/21/04		No Product	5.61	73.56
		12/01/04		No Product	9.11	70.06
		03/13/05		No Product	10.46	68.71
		06/09/05		No Product	10.56	68.61
		09/06/05		No Product	8.93	70.24
		12/07/05		No Product	10.10	69.07
		03/29/06		No Product	10.50	68.67
		06/09/06		No Product	12.19	66.98
		09/24/06		No Product	12.98	66.19
		12/06/06		No Product	13.89	65.28
CEF-46-26I	47.76	12/21/00	79.43	No Product	7.09	72.34
		03/14/03		No Product	3.82	75.61
		06/05/03		No Product	4.30	75.13
		09/03/03		No Product	3.73	75.70
		12/11/03		No Product	6.65	72.78
		03/18/04		No Product	8.05	71.38
		06/08/04		No Product	10.40	69.03
		09/21/04		No Product	6.56	72.87
		12/01/04		No Product	10.20	69.23
		03/13/05		No Product	11.50	67.93
		06/09/05		No Product	11.50	67.93
		09/06/05		No Product	9.90	69.53
		12/07/05		No Product	11.01	68.42
		03/29/06		No Product	11.00	68.43
		06/09/06		No Product	12.90	66.53
		09/24/06		No Product	13.60	65.83
		12/06/06		No Product	14.54	64.89
CEF-46-27D	90.00	12/07/05	78.94	No Product	10.65	68.29
CEF-46-28I	50.00	12/07/05	79.38	No Product	11.21	68.17
CEF-46-29I	50.00	12/07/05	79.88	No Product	11.75	68.13
CEF-46-30I	50.00	12/07/05	79.66	No Product	11.10	68.56
CEF-46-31I	50.00	12/07/05	90.02	No Product	12.20	77.82

BGS = Below Ground Surface
NR = not recorded due to water level meter malfunction
Elevation is referenced to National Geodetic Vertical Datum 1929 (NGVD 1929)
Depth-to-product measured from top of casing
Depth-to-water measured from top of casing

TABLE 2
GROUNDWATER FIELD ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)*	Oxidation Reduction Potential (mV)	Temperature (°C)	Carbon Dioxide (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L)**
CEF-46-1S	12/21/00	6.20	0.512	1.05	NM	22.70	NM	200	1.4	1.0	NM
	03/14/03	7.54	2.520	0.89	-204.00	20.77	ND	100	2.2	5.0	NM
	06/09/03	6.39	1.730	ND	-238.00	25.28	Interference	140	3.2	5.0	NM
	09/03/03	6.27	0.201	2.03	-364.00	27.53	Interference	205	1.0	5.0	NM
	12/11/03	5.98	0.234	ND	-332.00	23.15	400	250	1.4	5.0	ND
	03/18/04	6.48	0.220	NM	-278.00	22.33	Interference	175	2.0	5.0	ND
	06/08/04	6.00	1.920	0.04	-296.00	26.24	Interference	130	1.0	5.0	ND
	09/21/04	7.42	0.122	0.00	-234.00	27.97	Interference	100	5.4	5.0	ND
	12/01/04	6.39	2.404	0.15	-356.90	26.07	362	205	ND	5.0	ND
	03/13/05	6.23	1.467	0.18	-347.60	24.63	170	275	2.8	5.0	ND
	06/09/05	6.24	1.223	0.71	-347.10	26.88	140	195	1.8	5.0	ND
	09/06/05	6.52	0.927	0.20	-367.70	27.64	140	120	1.6	5.0	ND
	12/06/05	6.92	0.507	0.22	-269.80	23.49	123	85	1.6	5.0	ND
	03/29/06	5.73	0.355	0.24	-129.80	24.21	280	ND	2.6	5.0	ND
	06/09/06	4.30	0.405	0.50	-130.00	25.49	83	375	1.5	1.0	ND
	9/24/2006***	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/08/06	3.29	10.302	0.59	5.1	22.01	426	ND	4.4	5.0	ND
CEF-46-2S	12/21/00	6.20	0.962	1.06	NM	23.20	352	720	1.0	ND	NM
	03/14/03	7.08	1.620	1.60	-112.00	20.88	310	165	2.2	0.1	NM
	06/05/03	6.44	1.860	ND	NM	24.66	228	195	2.2	0.3	NM
	09/03/03	6.25	1.480	0.03	-132.00	27.94	245	160	2.0	0.3	NM
	12/11/03	6.47	1.070	0.40	-258.00	23.85	218	190	1.0	1.0	0.6
	03/18/04	6.80	0.123	NM	-111.00	20.09	231	190	1.4	0.7	ND
	06/08/04	5.73	0.855	0.16	-145.00	25.17	154	95	4.8	ND	3.0
	09/21/04	7.06	0.142	0.03	-153.00	26.76	157	130	3.8	2.0	ND
	12/01/04	6.45	2.454	0.06	-215.20	25.63	88	100	0.6	5.0	ND
	03/13/05	5.92	2.547	0.07	-181.60	22.86	207	60	2.2	1.0	ND
	06/09/05	6.14	2.530	0.59	-199.90	24.39	127	55	5.0	0.5	ND
	09/06/05	6.68	3.436	0.04	-295.10	27.26	184	90	3.8	1.0	ND
	09/21/05	6.61	2.954	0.49	-125.00	26.67	NM	NM	NM	NM	NM
	12/06/05	6.41	1.839	0.33	-25.00	24.31	175	65	3.0	0.1	ND
	03/30/06	5.84	3.300	0.24	-10.00	24.29	167	60	5.2	ND	ND
	06/09/06	4.75	0.994	0.66	-47.90	25.94	67	60	4.4	0.1	ND
	09/25/06	5.81	1.175	0.39	-85.10	26.25	237	75	4.0	0.7	ND
	12/08/06	6.02	1.232	0.73	-9.50	23.77	162	50	2.4	2.0	ND
CEF-46-3S	12/06/05	7.38	2.078	0.16	-106.90	25.11	108	325	ND	5.0	ND
CEF-46-4S	12/06/05	6.11	0.728	0.36	-57.10	25.04	167	20	3.8	5.0	ND
CEF-46-5I	12/21/00	5.60	0.140	1.10	NM	23.20	183	100	1.8	1.0	NM
	03/14/03	3.54	5.810	2.05	393.00	25.23	ND	ND	4.2	ND	NM
	06/05/03	2.00	4.840	0.23	407.00	26.92	Interference	ND	9.9	ND	NM
	09/03/03	2.74	4.450	0.04	320.00	27.29	Interference	ND	10.0	ND	NM
	12/11/03	2.84	4.480	4.01	331.00	22.90	568	ND	6.0	ND	ND
	03/18/04	2.48	4.074	NM	NM	25.00	172	ND	4.2	ND	ND
	06/08/04	2.28	5.216	0.10	503.60	27.25	93	ND	15.0	ND	15.0
	09/21/04	6.04	0.103	0.05	-61.80	26.85	171	5	4.8	0.1	ND
	12/01/04	4.48	0.638	0.23	267.70	26.86	Interference	ND	7.2	0.1	ND
	03/13/05	4.21	2.300	0.00	283.00	27.41	579	ND	9.2	ND	ND
	06/09/05	2.71	5.151	0.06	319.90	29.89	390	ND	10.0	ND	ND
	09/06/05	2.91	0.946	0.18	513.50	26.98	145	ND	3.8	ND	ND
	12/06/05	2.62	4.721	2.15	554.10	24.95	94	ND	ND	ND	ND
	03/29/06	2.36	3.174	0.21	418.90	25.71	478	ND	4.8	ND	ND
	06/09/06	2.69	4.061	0.67	406.40	29.66	535	ND	6.0	0.1	ND
	09/24/06	2.91	3.865	0.24	361.70	28.12	Interference	5	9.8	ND	ND
	12/08/06	2.66	12.471	1.61	353.30	21.20	Interference	ND	5.0	1.0	ND
CEF-46-6D	12/21/00	9.71	0.180	6.51	NM	23.50	8	120	0.4	0.3	NM
	03/14/03	3.23	8.600	2.64	404.00	25.71	ND	ND	4.2	ND	NM
	06/09/03	2.69	9.740	0.09	77.00	27.97	Interference	ND	7.0	ND	NM
	09/03/03	2.70	8.759	0.37	335.00	27.71	Interference	ND	10.0	ND	NM
	12/10/03	2.62	0.790	ND	376.00	23.95	Interference	ND	5.4	ND	0.8
	03/16/04	2.53	0.746	6.00	NM	24.60	263	ND	ND	3.0	ND
	06/08/04	2.42	8.973	0.09	431.60	26.46	Interference	ND	9.8	ND	15.0
	09/21/04	2.37	10.411	0.23	434.30	26.45	109	ND	9.8	0.1	ND
	12/01/04	2.59	18.791	0.15	437.10	27.16	118	ND	7.6	0.1	ND
	03/13/05	2.44	9.000	0.14	414.00	26.45	176	ND	10.0	ND	ND
	06/09/05	2.49	8.012	0.15	431.90	26.79	Interference	ND	10.0	ND	ND
	09/06/05	2.48	7.592	0.99	608.90	28.41	154	ND	4.2	0.1	ND
	12/06/05	2.52	10.154	5.44	515.70	25.87	99	ND	10.0	ND	ND
	03/29/06	2.21	9.429	1.82	598.90	26.23	241	200	4.6	ND	1.8
	06/09/06	2.49	8.276	0.71	564.50	28.89	128	ND	2.5	0.1	ND
	09/24/06	2.56	8.092	0.33	508.10	28.70	Interference	60	10.0	ND	ND
	12/08/06	2.42	9.589	4.80	344.60	19.58	Interference	ND	4.4	ND	3.2

TABLE 2
GROUNDWATER FIELD ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)*	Oxidation Reduction Potential (mV)	Temperature (°C)	Carbon Dioxide (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L)**
CEF-46-7I	12/21/00	4.90	0.510	1.11	NM	25.40	317	60	0.6	0.3	NM
	03/14/03	3.23	0.250	5.24	360.00	23.41	121	ND	1.8	ND	NM
	06/09/03	3.80	0.191	1.05	278.00	26.12	233	ND	2.2	ND	NM
	09/03/03	4.51	0.226	0.12	81.00	27.32	143	ND	4.0	2.0	NM
	12/11/03	5.19	0.180	0.67	-170.00	23.07	70	25	3.7	2.0	ND
	03/18/04	4.89	0.230	NM	120.00	24.42	75	15	4.0	ND	ND
	06/08/04	3.67	0.089	0.24	256.00	25.91	99	ND	4.4	ND	ND
	09/21/04	3.55	0.085	0.00	163.00	26.80	68	5	10.0	ND	ND
	12/01/04	5.62	0.175	0.06	-50.60	26.45	217	10	5.8	1.0	ND
	03/13/05	4.90	0.130	0.12	-79.20	25.78	122	35	4.0	2.0	ND
	06/09/05	4.04	0.439	0.67	-39.50	26.99	148	ND	3.8	2.0	ND
	09/06/05	3.65	0.461	0.15	253.60	26.26	140	ND	4.6	0.1	ND
	12/06/05	3.90	0.188	0.40	258.30	23.64	113	ND	3.0	0.1	ND
	03/30/06	4.40	0.244	0.38	120.70	23.92	128	20	5.0	0.1	ND
	06/09/06	2.04	0.126	0.68	37.20	25.43	176	70	5.8	0.7	ND
	09/25/06	4.84	0.108	0.25	3.40	25.61	105	15	4.8	2.0	ND
	12/08/06	3.39	0.485	2.30	468.20	23.41	181	ND	0.1	ND	4.2
CEF-46-8I	12/06/05	4.89	0.076	0.59	80.80	25.87	Interference	15	3.0	ND	ND
CEF-46-9I	12/20/00	5.29	0.079	1.47	NM	24.60	84.6	20	0.8	0.3	NM
	03/14/03	5.47	0.914	1.35	64.00	25.40	ND	ND	2.2	1.0	NM
	06/04/03	4.75	1.090	0.60	-8.00	25.73	Interference	ND	6.0	1.0	NM
	09/03/03	3.74	1.040	0.84	18.00	26.85	Interference	ND	3.8	1.0	NM
	12/10/03	3.64	1.010	6.21	-100.00	26.29	Interference	ND	5.2	0.5	ND
	03/16/04	3.67	0.165	NM	199.00	25.08	Interference	ND	2.8	2.0	ND
	06/08/04	3.58	1.770	0.14	68.00	25.99	Interference	ND	8.0	5.0	3.0
	09/21/04	3.50	1.401	0.17	-18.20	25.99	Interference	ND	8.4	3.0	ND
	12/01/04	3.68	NM	0.11	-74.80	26.09	370	ND	4.5	3.0	ND
	03/13/05	5.92	0.540	0.00	72.00	25.01	296	ND	5.4	1.0	ND
	06/09/05	3.76	0.830	0.14	-29.30	26.31	201	ND	3.6	2.0	ND
	09/06/05	3.74	0.641	0.18	-39.70	28.43	352	ND	3.5	5.0	ND
	12/06/05	3.76	1.055	0.24	225.80	25.47	Interference	ND	3.0	5.0	ND
	03/30/06	3.96	20.384	0.37	-34.40	24.92	Interference	ND	5.0	2.0	ND
	06/09/06	2.86	0.756	0.33	177.80	29.25	Interference	ND	7.0	2.0	ND
	09/24/06	3.70	0.661	0.17	218.80	29.13	413	5	7.2	0.1	ND
	12/08/06	3.81	0.493	0.38	-43.60	24.24	Interference	ND	ND	2.0	ND
CEF-46-10I	12/06/05	5.68	0.119	0.50	33.20	23.89	99	15	2.0	1.0	ND
CEF-46-11I	12/06/05	6.44	0.406	0.63	-46.20	23.45	134	85	2.0	5.0	ND
CEF-46-12I	12/20/00	5.57	0.160	1.91	NM	26.50	193.6	80	0.8	2.0	NM
	03/14/03	3.38	0.178	3.92	333.00	26.07	96	ND	2.2	ND	NM
	06/05/03	4.22	0.155	1.65	117.00	26.33	168	ND	1.0	ND	NM
	09/03/03	4.71	0.308	0.00	164.00	27.88	136	5	0.0	ND	NM
	12/11/03	4.97	0.310	0.61	129.00	23.96	84	1	2.2	0.1	0.8
	03/18/04	5.33	0.129	0.60	NM	24.90	86	5	3.5	0.1	0.6
	06/08/04	4.69	0.142	0.47	162.00	26.48	122	5	3.0	ND	13.0
	09/21/04	4.65	0.245	0.01	124.00	24.84	115	5	3.0	ND	ND
	12/01/04	5.30	0.661	0.12	133.40	26.37	45	5	1.4	ND	ND
	03/13/05	5.12	0.384	0.12	120.10	24.02	220	25	1.0	ND	ND
	06/09/05	5.13	0.412	0.97	121.10	25.29	217	25	1.8	ND	ND
	09/06/05	5.06	0.417	0.22	4.20	26.82	306	20	2.8	0.1	ND
	12/06/05	4.79	0.185	0.50	170.40	22.70	273	ND	4.8	ND	ND
	03/29/06	4.54	0.234	0.42	66.50	24.92	253	25	2.8	0.3	ND
	06/09/06	3.73	0.203	0.59	216.8	26.76	246	15	5.2	0.1	ND
	09/25/06	3.93	0.222	0.60	-49.8	25.73	443	15	3.2	0.1	ND
	12/08/06	4.39	0.236	1.04	266.5	23.65	296	ND	4.5	0.1	ND
CEF-46-13I	12/20/00	5.40	0.120	1.23	NM	25.00	188	20	1.4	5.0	NM
	03/14/03	6.29	0.110	0.99	-31.00	25.90	280	ND	2.5	5.0	NM
	06/05/03	3.71	0.643	0.00	1.00	26.44	Interference	ND	3.6	5.0	NM
	09/03/03	3.81	0.999	0.36	57.00	28.50	Interference	ND	2.4	2.0	NM
	12/11/03	3.93	0.990	1.11	160.00	24.10	Interference	ND	3.2	5.0	ND
	03/18/04	3.76	1.282	0.50	NM	25.60	Interference	ND	3.0	0.3	ND
	06/08/04	3.08	1.170	0.34	286.00	26.73	Interference	ND	3.6	ND	1.0
	09/21/04	4.96	0.588	0.17	-32.00	26.20	Interference	ND	7.8	5.0	ND
	12/01/04	3.93	0.931	0.06	37.70	26.53	Interference	ND	0.7	5.0	ND
	03/13/05	2.92	0.947	0.75	494.30	24.67	Interference	ND	2.8	1.0	ND
	06/09/05	2.98	1.584	0.71	361.30	25.97	Interference	ND	4.0	0.7	ND
	09/06/05	3.84	1.698	0.84	-90.00	26.30	Interference	ND	4.1	1.0	ND
	12/06/05	3.55	0.568	0.47	257.70	22.63	167	ND	3.0	2.0	ND
	03/29/06	2.48	0.538	0.63	571.60	24.98	246	ND	3.4	0.1	ND
	06/09/06	3.04	0.205	0.26	125.10	27.12	58	ND	10.0	2.0	ND
	09/25/06	3.86	0.154	0.47	-42.30	26.38	395	ND	5.4	0.1	ND
	12/08/06	4.07	0.146	1.03	121.60	23.00	242	ND	3.5	2.0	ND

TABLE 2
GROUNDWATER FIELD ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)*	Oxidation Reduction Potential (mV)	Temperature (°C)	Carbon Dioxide (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L)**
CEF-46-14D	12/20/00	5.87	0.109	1.52	NM	24.90	84	540	2.4	0.3	NM
	03/14/03	6.26	0.098	0.85	-33.00	25.32	180	15	2.5	5.0	NM
	06/04/03	5.77	0.106	0.17	-39.00	26.14	186	20	2.3	2.0	NM
	09/03/03	4.82	0.215	0.86	-54.00	27.66	155	20	2.2	5.0	NM
	12/10/03	5.36	0.282	0.07	-62.00	25.92	136	10	2.4	1.0	ND
	03/16/04	5.43	0.105	0.80	NM	25.60	154	20	24.0	5.0	ND
	06/08/04	5.17	0.109	0.10	-58.90	26.00	NM	NM	NM	NM	NM
	09/21/04	5.26	0.125	0.16	-159.20	25.37	120	15	4.8	3.0	ND
	12/01/04	5.51	0.239	0.42	-174.00	25.41	176	25	2.4	0.1	ND
	03/13/05	7.68	0.110	0.20	-29.00	22.89	109	25	3.8	2.0	ND
	06/09/05	5.38	0.156	0.25	-64.40	25.86	94	15	1.5	0.1	ND
	09/06/05	5.33	0.108	0.25	-169.70	26.70	109	15	3.5	1.0	ND
	12/06/05	5.22	0.127	ND	-28.60	22.36	185	ND	2.6	2.0	ND
	03/29/06	3.67	0.106	0.51	192.00	24.43	160	15	4.8	0.3	ND
	06/09/06	4.02	0.093	0.52	25.10	29.19	93	10	2.6	0.1	ND
	09/24/06	3.34	0.095	0.49	148.90	28.48	252	40	3.0	0.3	ND
	12/08/06	5.45	0.103	0.38	-109.40	23.46	Interference	45	1.0	0.7	ND
CEF-46-15I	12/20/00	5.01	0.108	1.27	NM	22.20	86.6	40	3.2	1.0	NM
	03/13/03	4.64	0.191	0.90	328.00	22.79	343	ND	3.2	ND	NM
	06/04/03	1.76	0.172	0.59	92.00	22.89	368	10	3.3	ND	NM
	09/03/03	3.99	0.369	0.45	195.00	24.16	367	ND	2.8	ND	NM
	12/10/03	4.00	0.290	6.16	99.00	23.64	124	1	3.5	0.1	5.0
	03/16/04	4.30	0.501	NM	241.00	22.91	324	ND	3.0	ND	ND
	06/08/04	4.26	0.168	0.22	193.30	22.89	317	15	3.8	ND	3.0
	09/21/04	4.25	0.179	0.27	-55.00	23.27	319	ND	3.5	ND	ND
	12/01/04	4.42	0.347	0.19	-91.40	23.69	143	15	3.4	0.1	ND
	03/13/05	4.47	0.180	2.07	256.00	22.05	291	ND	ND	ND	1.0
	06/09/05	4.16	0.244	0.19	-51.00	22.93	312	10	4.8	ND	ND
	09/06/05	4.32	0.138	0.66	-101.60	23.90	219	ND	2.5	3.0	ND
	12/06/05	4.66	0.180	0.76	86.00	20.99	155	15	2.0	0.7	ND
	03/30/06	4.54	2.820	0.55	23.20	22.20	234	15	4.8	0.1	ND
	06/09/06	3.10	0.146	0.45	138.80	24.19	241	20	5.4	0.5	ND
	09/24/06	3.07	0.142	0.29	192.90	24.45	253	5	6.4	ND	ND
	12/08/06	4.54	0.150	0.54	-2.00	20.88	296	ND	2.2	0.1	ND
CEF-46-16I	12/06/05	4.87	0.148	0.90	44.90	20.67	241	20	2.5	5.0	ND
CEF-46-17D	12/06/05	4.44	1.904	0.61	53.50	20.08	Interference	ND	3.5	3.0	ND
CEF-46-18I	12/07/05	3.80	0.856	0.99	318.80	23.56	0.186	ND	9.0	0.1	ND
CEF-46-19I	12/07/05	2.58	5.885	0.77	476.90	22.01	Interference	ND	3.6	5.0	ND
CEF-46-20I	12/07/05	3.84	1.054	0.95	324.00	23.14	241	ND	9.0	0.1	ND
CEF-46-21I	12/20/00	4.86	0.047	1.35	NM	23.20	9.4	60	0.8	ND	NM
	03/13/03	3.75	0.713	2.35	397.00	23.94	0.0	ND	3.0	ND	NM
	06/05/03	3.12	0.798	0.00	251.00	24.22	Interference	ND	3.9	0.7	NM
	09/03/03	3.34	0.406	2.82	449.00	26.30	115	ND	1.6	ND	NM
	12/11/03	3.58	0.476	3.43	407.00	23.07	89	ND	1.6	ND	2.0
	03/18/04	3.81	0.162	2.10	NM	23.00	91	ND	2.4	ND	1.0
	06/08/04	3.39	0.147	0.86	406.00	23.91	78	ND	1.4	ND	13.0
	09/21/04	2.61	0.147	0.44	317.00	24.62	69	ND	0.8	ND	ND
	12/01/04	3.89	0.334	2.30	439.10	24.76	54	ND	0.3	ND	ND
	03/13/05	3.66	0.175	0.10	311.20	23.58	112	ND	0.8	ND	0.10
	06/09/05	3.61	0.114	1.21	319.00	23.57	45	5	1.4	ND	0.00
	09/06/05	4.22	0.103	0.26	79.30	25.31	75	5	1.0	ND	ND
	12/07/05	4.36	0.218	2.03	219.80	23.24	35	ND	4.5	3.0	3.60
	03/29/06	3.54	0.072	0.43	83.90	23.97	31	10	1.0	0.3	ND
	06/09/06	3.70	0.056	0.15	209.70	25.52	NM	NM	NM	NM	NM
	09/24/06	3.83	0.095	0.47	-45.30	25.78	156	20	2.4	0.1	ND
	12/08/06	3.99	0.121	0.57	284.10	20.08	140	5	1.8	0.1	ND
CEF-46-22I	12/07/05	3.70	4.124	1.03	153.30	22.84	95	ND	10.00	5.00	ND
CEF-46-23D	12/07/05	2.44	21.506	1.23	438.80	24.49	86	ND	8.50	0.10	ND
CEF-46-24D	12/20/00	6.15	0.129	0.13	NM	21.90	16.4	60	2.3	0.1	NM
	03/14/03	3.70	2.530	2.23	402.00	27.46	ND	ND	4.0	ND	NM
	06/05/03	0.36	3.160	0.36	250.00	28.22	Interference	ND	5.9	ND	NM
	09/03/03	3.20	2.110	0.21	282.00	27.68	Interference	ND	5.4	ND	NM
	12/10/03	3.24	0.200	0.30	308.00	26.18	Interference	ND	3.8	ND	ND
	03/16/04	3.45	1.285	0.60	NM	27.60	Interference	ND	4.2	0.1	ND
	06/08/04	3.09	1.564	0.20	386.40	27.04	Interference	ND	7.2	0.1	ND
	09/21/04	3.74	1.218	0.44	17.20	26.06	Interference	ND	9.6	0.3	ND
	12/01/04	3.74	2.133	0.33	211.60	24.52	Interference	ND	8.5	0.3	ND
	03/13/05	6.16	1.200	0.12	58.00	25.70	Interference	5	7.4	1.0	ND
	06/09/05	4.26	4.395	0.06	106.40	26.31	Interference	5	10.0	0.5	ND
	09/06/05	4.12	2.946	0.17	161.20	26.94	Interference	ND	9.0	1.0	ND
	12/07/05	4.38	8.358	0.96	207.30	23.42	72	ND	5.2	0.3	0.96
	03/29/06	4.34	3.362	0.46	97.90	24.67	Interference	5	5.2	ND	ND
	06/09/06	3.66	2.810	0.41	212.10	26.11	Interference	ND	10.0	0.1	ND
	09/24/06	4.09	2.319	0.50	20.40	26.75	Interference	ND	5.0	0.1	ND
	12/08/06	3.48	1.664	0.43	265.90	21.23	Interference	ND	3.1	0.1	ND

TABLE 2
GROUNDWATER FIELD ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	pH	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)*	Oxidation Reduction Potential (mV)	Temperature (°C)	Carbon Dioxide (mg/L)	Alkalinity as $CaCO_3$ (mg/L)	Ferrous Iron (mg/L)	Hydrogen Sulfide (mg/L)	Dissolved Oxygen (mg/L)**
CEF-46-25I	12/20/00	5.81	0.167	2.88	NM	24.60	20.6	120	0.6	5.0	NM
	03/13/03	6.16	1.420	1.03	-58.00	25.35	ND	ND	4.5	5.0	NM
	06/04/03	5.98	1.440	0.00	-87.00	25.76	ND	ND	6.0	5.0	NM
	09/03/03	3.77	0.910	0.53	-107.00	26.43	Interference	ND	3.8	5.0	NM
	12/10/03	3.95	0.860	5.82	-198.00	24.15	Interference	ND	3.5	5.0	ND
	03/16/04	3.74	0.179	NM	-2.00	23.99	Interference	ND	5.4	5.0	ND
	06/08/04	3.53	2.054	0.13	-92.90	25.15	Interference	ND	6.2	5.0	ND
	09/21/04	3.66	1.736	0.41	-97.40	24.31	Interference	ND	NM	2.0	ND
	12/01/04	3.72	3.586	0.08	-153.10	24.20	Interference	ND	7.8	5.0	ND
	03/13/05	6.67	0.800	0.19	8.00	22.96	Interference	ND	12.0	5.0	ND
	06/09/05	3.74	1.429	0.13	-111.30	24.71	Interference	ND	9.8	5.0	ND
	09/06/05	3.44	0.871	0.14	-96.00	25.26	Interference	ND	9.5	5.0	ND
	12/07/05	3.96	2.015	1.03	140.40	21.84	58	ND	7.0	5.0	ND
	03/29/06	4.05	0.340	0.43	121.40	23.78	Interference	5	5.0	5.0	ND
	06/09/06	3.52	0.235	0.33	-28.40	24.84	NM	NM	NM	NM	NM
	09/24/06	3.86	0.201	0.47	-85.30	25.71	316	ND	3.4	5.0	ND
	12/08/06	3.85	0.299	0.84	75.90	20.23	Interference	ND	3.4	5.0	ND
CEF-46-26I	12/20/00	8.53	0.099	0.03	NM	23.10	24.2	NM	1.4	NM	NM
	03/14/03	6.34	0.063	4.66	3.00	26.88	ND	ND	4.6	5.0	NM
	06/05/03	3.31	2.880	0.00	-2.00	24.60	Interference	ND	9.0	5.0	NM
	09/03/03	3.40	1.990	0.12	111.00	25.14	Interference	ND	7.8	5.0	NM
	12/11/03	3.52	0.224	0.00	151.00	22.18	Interference	ND	3.0	5.0	ND
	03/18/04	3.51	0.268	NM	203.00	22.45	Interference	ND	5.0	5.0	ND
	06/08/04	2.43	3.460	0.32	284.00	24.34	Interference	ND	4.0	1.0	4.0
	09/21/04	3.69	0.280	0.00	91.00	23.88	Interference	ND	10.0	5.0	ND
	12/01/04	2.62	6.045	0.11	371.60	23.43	Interference	ND	3.33	5.0	ND
	03/13/05	2.90	5.353	0.12	250.30	24.33	Interference	ND	10.0	2.0	ND
	06/09/05	2.54	6.025	0.82	297.10	24.22	Interference	ND	10.0	5.0	ND
	09/06/05	3.40	5.927	0.06	74.90	24.57	Interference	ND	6.2	3.0	ND
	12/07/05	3.50	6.642	0.43	225.50	22.19	Interference	ND	8.0	5.0	ND
	03/29/06	2.84	3.147	0.46	498.40	23.82	Interference	ND	8.0	ND	ND
	06/09/06	2.72	2.493	0.23	281.80	24.46	Interference	ND	9.2	5.0	ND
	09/24/06	3.78	1.952	0.42	-63.80	26.59	Interference	ND	8.2	2.0	ND
	12/08/06	3.24	1.682	0.69	100.60	20.74	Interference	ND	4.5	5.0	ND
CEF-46-27D	12/07/05	7.67	1.491	1.08	-79.40	22.38	169	280	5.0	ND	ND
CEF-46-28I	12/07/05	4.00	5.614	0.53	84.50	21.24	Interference	ND	4.8	5.0	ND
CEF-46-29I	12/07/05	3.52	7.275	0.53	152.90	21.24	Interference	ND	7.0	5.0	ND
CEF-46-30I	12/07/05	3.64	4.614	0.29	-3.20	21.97	Interference	ND	10.0	5.0	ND
CEF-46-31I	12/07/05	3.68	6.551	0.44	71.60	21.08	Interference	ND	10.0	5.0	ND

* Horiba Multimeter
**Dissolved Oxygen Hach Test Kit
***Well went dry after pumping 0.7 gallons, final readings not obtained.
ND = Non Detect
NM = Not Measured

TABLE 3
GROUNDWATER ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	Benzene	Ethyl Benzene	Toluene	Xylene	BTEX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene
CEF-46-1S	12/21/00	13000	2800	40000	18000	74900	NM	550	NM	NM	1.4	<1.1
	01/26/01	0.26	0.44	1.4	3.2	5.32	<1.0	<1.0	NM	NM	<1.0	<1.0
	03/14/03	592	1160	1160	4560	7522	619	496	<4.0	<4.0	<4.0	<4.0
	06/09/03	262	626	316	1070	2276	511	947	136	162	<0.10	0.29
	09/03/03	350	735	575	2920	4580	365	661	133	126	<0.10	0.46
	12/11/03	430	882	1410	3640	6362	432	601	69	117	<0.10	0.28
	03/16/04	401	741	1160	2280	4582	486	508	61.5	98.5	<0.10	0.24
	06/08/04	163	484	194	526	1367	310	342	36.6	76.6	<5.10	<2.04
	09/21/04	54.8Y	321Y	87.4Y	2140Y	2613.2Y	276Y	252 J3Y	24.2 J3Y	64.2 J3Y	<5.49 J3Y	<2.20 J3Y
	12/01/04	153	601.5	163.9	779	1697.4	216.1	621.4	65.6	143	<0.235	<0.165
	03/13/05	174	687	152	1100	2113	334	503	56.9	94.6	<0.0840	<0.012
	06/09/05	263	767	306	1330	2666	270	316	51.3	73.0	< 0.0840	< 0.112
	09/06/05	127	664	169	2520	3480	133	697	52.6	188	<0.0840	<0.112
	12/06/05	85.9	627	95.8	1410	2218.7	644	709	20.9 I	108	<0.933	<1.24
	03/29/06	15.2	205	38.2	458	714.4	267	644	65.8	119	<0.0840	<0.112
	06/09/06	21.9	259	118	698	1096.9	187	322	36.7	78	<0.0840	0.280 I
	09/24/06	31.6	359	67.1	1320	1767.7	140	592	76.9	111	<0.0840	<0.112
	12/09/06	12.6	131	37.3	194	376.1	22.1	187	32.2	83	<0.0840	<0.112
CEF-46-2S	12/21/00	309	72	51	200	632	NA	230	NM	NM	<1.1	2.5
	01/25/01	7.3	0.96	1.6	3.3	13.06	7.1	11	NM	NM	<1.0	<1.0
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	166	<2.0	<2.0	<2.0	<2.0	<2.0
	06/05/03	<1.00	<1.0	<1.0	<1.0	<1.0	64.5	<0.10	<0.10	<0.10	<0.10	<0.10
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	21.3	0.24	<0.10	<0.10	<0.10	<0.10
	12/11/03	<1.00	<1.0	<1.0	<3.0	<1.0	21.7	<0.10	<0.10	<0.10	<0.10	<0.10
	03/18/04	12.4	<1.0	<1.0	3.7	16.1	24.3	1.4	0.16	0.21	<0.10	0.11
	06/08/04	3.72	<1.00	<1.00	<1.00	3.72	26.1	0.643 I	<2.04	<2.04	<5.10	0.398 I
	09/21/04	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	6.32Y	<2.17 J3Y	<2.17 J3Y	<2.17 J3Y	<2.17 J3Y	<2.17 J3Y
	12/01/04	116	134.6	0.5700 I	136	389.17	136.8	61.30	4.56 I	<0.214	<0.235	2.32 I
	03/13/05	54.8	1.04 I	0.210 I	1.64	57.49	47.6	96.50	7.77	0.439 I	<0.0840	0.602 I
	06/09/05	25.9	< 0.201	< 0.142	< 0.220	25.9	17.2	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112
	09/06/05	<0.143	<0.201	<0.142	< 0.220	<0.220	3.95	26.0	1.12 I	<0.203	< 0.0840	< 0.112
	09/21/05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	4.47	<0.100	<0.133	<0.203	<0.0840	<0.112
	03/30/06	0.460 I	0.420 I	<0.176	<0.298	0.880 I	3.41	8.9	0.810 I	<0.203	<0.0840	<0.112
	06/09/06	<0.305	<0.336	<0.257	<0.433	<0.433	2.00	<0.100	<0.133	<0.203	<0.0840	<0.112
	09/25/06	<0.305	<0.336	<0.257	<0.433	<0.433	1.69	<0.100	<0.133	<0.203	<0.0840	<0.112
	12/08/06	3.16	0.680 I	<0.257	1.46	5.34	2.44	<0.100	<0.133	<0.203	<0.0840	<0.112
CEF-46-3S	12/06/06	17.2	1.61 I	0.480 I	1.56 I	21.06	10.3	<0.100	<0.137	<0.209	<0.0666	<0.115
CEF-46-4S	12/06/06	0.570 I	<0.201	<0.142	0.540 I	1.111	1.47 I	<0.100	<0.137	<0.209	<0.0666	<0.115
CEF-46-6I	12/21/00	859	38	13	150	1061	NM	1.6	NM	NM	<1.1	<1.1
	01/25/01	180	7.4	3.1	31	221.5	<1.0	<1.0	NM	NM	<1.0	<1.0
	03/14/03	<1.0	<1.0	<1.0	9.0	9.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0
	06/05/03	<1.00	<1.0	<1.0	5.2	5.2	4.6	<0.10	<0.10	<0.10	<0.10	<0.10
	09/03/03	<1.00	<1.0	<1.0	6.6	6.6	66.2	<0.10	<0.10	<0.10	<0.10	<0.10
	12/11/03	<1.00	<1.0	<1.0	4.1	4.1	70	<0.10	<0.10	<0.10	<0.10	<0.10
	03/18/04	1.4	<1.0	1.1	3.9	6.4	28.4	<0.10	<0.10	<0.10	<0.10	<0.10
	06/08/04	<1.00	<1.00	<1.00	<1.00	<1.00	2.3	<2.04	<2.04	<2.04	<5.10	<2.04
	09/21/04	<1.00Y	1.61Y	<1.00Y	2.93Y	4.54Y	<1.00Y	<2.20 J3Y	<2.20 J3Y	<2.20 J3Y	<5.49 J3Y	<2.20 J3Y
	12/01/04	<0.143	0.4400 I	<0.1417	<0.220	0.4400 I	<0.2359	<0.23	<0.206	<0.216	<0.237	<0.167
	03/13/05	1.75 I	<0.201	<0.142	1.23 I	2.98 I	3.56	<0.112	<0.148	<0.233	<0.0933	<0.124
	06/09/05	< 0.143	< 0.201	< 0.142	0.950 I	0.950 I	8.65	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112
	09/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112
	12/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112
	03/29/06	<0.140	<0.126	<0.176	<0.298	<0.298	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112
	06/09/06	0.340 I	<0.336	<0.257	<0.433	0.340 I	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112
	09/24/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112
	12/08/06	<0.305	<0.338	<0.257	<0.433	<0.443	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112
CEF-46-6D	12/21/00	2.8	9.9	6	18	36.7	NM	3.3	NM	NM	<1.1	<1.1
	02/06/01	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<1.1	NM	NM	<1.1	<1.1
	03/14/03	<1.0	<1.0	<1.0	6.0	6.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0
	06/09/03	<1.00	<1.0	<1.0	6.7	6.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	09/03/03	<1.00	<1.0	<1.0	3.3	3.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/10/03	<1.00	<1.0	<1.0	<3.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/16/04	<1.00	<1.0	<1.0	<3.0	<3.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10
	06/08/04	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.04	<2.04	<2.04	<5.10	<2.04
	09/21/04	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<2.15 J3Y	<2.15 J3Y	<2.15 J3Y	<5.38 J3Y	<2.15 J3Y
	12/01/04	<0.143	1.160 I	<0.1417	1.35 I	2.53 I	<0.2359	<0.23	<0.208	<0.219	<0.240	<0.169
	03/13/05	<0.143	<0.201	<0.142	1.78 I	1.78 I	<0.236	<0.112	<0.146	<0.233	<0.0933	<0.124
	06/09/05	< 0.143	< 0.201	< 0.142	1.01 I	1.01 I	< 0.236	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112
	09/06/05	<0.143	<0.201	<0.142	0.340 I	0.340 I	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112
	12/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112
	03/29/06	<0.140	<0.126	<0.176	<0.298	<0.298	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112
	06/09/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112
	09/24/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.0133	<0.203	<0.0840	<0.112
	12/08/06	<0.305	<0.338	<0.257	1.22	1.22	<0.336	0.370 I	<0.133	<0.203	<0.0840	<0.112
CEF-46-7I	12/21/00	9100	2600	17000	15000	43900	NM	250	NM	NM	0.86	<1.1
	02/22/01	6500	1400	10000	7900	25800	6100	120	NM	NM	<1.0	<1.0
	03/14/03	946	150	86.5	904	2086	4980	<2.0	<2.0	<2.0	<2.0	<2.0
	06/09/03	676	123	51.6	754	1604.6	4190	32.4	0.42	0.24	<0.10	<0.10
	09/03/03	832	156	<10.0	697	1687.0	5140	123	6.12	7.82	<0.10	<0.10
	12/11/03	734	111	5	290	1140.0	5620	96.2	4.76	8.28	<0.10	<0.10
	03/18/04	366	66	8.5 ?	414	874.5	3460	2.15	<0.10	<0.10	<0.10	<0.10
	06/08/04	208	42.7	11.3	330	592.0	3060	3.34	<2.04	<2.04	<5.10	<2.04
	09/21/04	494Y	38.1Y	9.99Y	387Y	929.09Y	2190Y	0.242 J3, IY	<2.20 J3Y	<2.20 J3Y	<5.49 J3Y	<2.20 J3Y
	12/01/04	833	144.9	10.30	631	1619.2	1943	131.2	5.16	8.13	<0.230	<0.162
	03/13/05	775	176	3.26	269	1223.3	1480	126	6.39	7.40	<0.0840	<0.112
	06/09/05	394	127	2.79	199	722.79	528	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112
	09/06/05	92.9	41.3	2.52	95.6	232.32	1730	<0.100	<0.133	<0.203	<0.0840	<0.112
	12/06/05	651	144	11.3 I	357	1163.3	2140	28.6	<0.148	<0.226	<0.0933	<0.124
	03/30/06	146	26.0	0.650 I	29	201.65	1290	33.7	0.900 I	1.10 I	<0.0840	<0.112
	06/09/06	207	33.2	0.310 I	11.4	251.91	662	60.7	2.67 I	1.24 I	<0.0840	<0.112
	09/25/06	162	25.4	0.310 I	5.07	192.78	295 L	75.1	2.98 I	0.510 I	<0.0840	<0.112
	12/08/06	<0.305	0.490 I	<0.257	<0.433	0.490 I	372	<0.100	<0.133	<0.203	<0.0840	<0.112
Groundwater Criteria[1]		1	30	40	20	n/a	20	14	28	28	210	20
Natural Attenuation Default Source[1]		100	300	400	200	n/a	200	140	280	280	2100	200

Well	Date	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene
CEF-46-1S	12/21/00	0.88	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
	01/26/01	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	03/14/03	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0	<4.0
	06/09/03	0.22	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	09/03/03	0.26	0.48	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	12/11/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	03/16/04	<0.10	0.18	0.27	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	06/08/04	<2.04	<5.10	<1.02	<1.02	<5.10	<0.204	<0.204	<0.204	<0.510	<0.204
	09/21/04	<2.20 J3Y	<5.49Y	<1.10Y	<1.10Y	<5.49Y	<0.220Y	<2.20Y	<0.220Y	<0.549Y	<0.220Y
	12/01/04	<0.347	<0.110	0.204 I	<0.106	<0.102	<0.150	<0.084	<0.102	<0.259	<0.167
	03/13/05	<0.0900	<0.0990	<0.0780	<0.108	<0.135	<0.106	<0.0630	<0.0600	<0.0900	<0.154
	06/09/05	< 0.0900	< 0.0990	< 0.0780	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154
	09/06/05	0.500 I	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	12/06/05	<1.00	<1.11	<0.889	<1.20	<1.50	<1.15	<0.744	<0.667	<1.00	<1.67
	03/29/06	0.240 I	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	06/09/06	0.200 I	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	09/24/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	12/09/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
CEF-46-2S	12/21/00	3.1	0.35	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
	01/25/01	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	03/14/03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	06/05/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	09/03/03	<0.10	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	12/11/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	03/18/04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	06/08/04	<2.04	<5.10	<1.02	<1.02	<5.10	<0.204	<0.204	<0.204	<0.510	<0.204
	09/21/04	<2.17 J3Y	<5.43Y	<1.09Y	<1.09Y	<5.43Y	<0.217Y	<2.17Y	<0.217Y	<0.543Y	<0.217Y
	12/01/04	2.00 I	<0.110	<0.118	<0.106	<0.102	<0.150	<0.084	<0.102	<0.259	<0.167
	03/13/05	0.684 I	0.306 I	<0.0780	<0.108	<0.135	<0.106	<0.0630	<0.0600	<0.0900	<0.154
	06/09/05	< 0.0900	< 0.0990	< 0.0780	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154
	09/06/05	0.240 I	<0.100	<0.0800	<0.108	<0.135	< 0.106	<0.0670	<0.0600	<0.0900	<0.150
	09/21/05	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
	12/06/05	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	03/30/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<.0106	<0.0670	<0.0600	<0.0900	<0.150
	06/09/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	09/25/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	12/08/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
CEF-46-3S	12/06/06	<0.0928	<0.103	<0.0825	<0.111	<0.139	<0.0691	<0.0619	<0.0619	<0.0928	<0.155
CEF-46-4S	12/06/06	<0.0928	<0.103	<0.0825	<0.111	<0.139	<0.0691	<0.0691	<0.0619	<0.0928	<0.155
CEF-46-6I	12/21/00	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
	01/25/01	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	03/14/03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	06/05/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	09/03/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	12/11/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	03/18/04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	06/08/04	<2.04	<5.10	<1.02	<1.02	<5.10	<0.204	<2.04	<0.204	<0.510	<0.204
	09/21/04	<2.20 J3Y	<5.49Y	<1.10Y	<1.10Y	<5.49Y	<0.220Y	<2.20Y	<0.220Y	<0.549Y	<0.220Y
	12/01/04	<0.127	<0.111	<0.120	<0.107	<0.103	<0.152	<0.085	<0.103	<0.262	<0.168
	03/13/05	<0.100	<0.110	<0.0667	<0.120	<0.150	<0.118	<0.0700	<0.0667	<0.100	<0.171
	06/09/05	< 0.0900	< 0.0990	< 0.0780	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154
	09/06/05	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	12/06/05	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	03/29/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	06/09/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	09/24/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	12/08/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
CEF-46-6D	12/21/00	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
	02/06/01	<1.1	<1.1	<1.1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21
	03/14/03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	06/09/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	09/03/03	<1.0	0.31	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/10/03	<1.0	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/16/04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	06/08/04	<2.04	<5.10	<1.02	<1.02	<5.10	<0.204	<2.04	<0.204	<0.510	<0.204
	09/21/04	<2.15 J3Y	<5.38Y	<1.08Y	<1.08Y	<5.38Y	<0.215Y	<2.15Y	<0.215Y	<0.538Y	<0.215Y
	12/01/04	<0.128	<0.112	<0.121	<0.108	<0.104	<0.153	<0.085	<0.104	<0.265	<0.170
	03/13/05	<0.100	<0.110	<0.0667	<0.120	<0.150	<0.118	<0.0700	<0.0667	<0.100	<0.171
	06/09/05	< 0.0900	< 0.0990	< 0.0780	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154
	09/06/05	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	12/06/05	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	03/29/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	06/09/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	09/24/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	12/08/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
CEF-46-7I	12/21/00	0.7	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
	02/22/01	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
	03/14/03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	06/09/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	09/03/03	0.14	0.47	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	12/11/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	03/18/04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	06/08/04	<2.04	<5.10	<1.02	<1.02	<5.10	<0.204	<2.04	<0.204	<0.510	<0.204
	09/21/04	<2.20 J3Y	<5.49Y	<1.10Y	<1.10Y	<5.49Y	<0.220Y	<2.20Y	<0.220Y	<0.549Y	<0.220Y
	12/01/04	<0.123	<0.107	<0.116	<0.104	<0.100	<0.147	<0.082	<0.100	<0.254	<0.163
	03/13/05	<0.0900	<0.0990	<0.0780	<0.108	<0.135	<0.106	<0.0630	<0.0600	<0.0900	<0.154
	06/09/05	< 0.0900	< 0.0990	< 0.0780	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154
	09/06/05	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	12/06/05	<0.100	<0.111	<0.0889	<0.120	<0.150	<0.118	<0.0744	<0.0667	<0.100	<0.167
	03/30/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	06/09/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	09/25/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
	12/08/06	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150
Groundwater Criteria[1]		280	210	2100	280	210	0.05	4.8	0.05	0.5	0.2
Natural Attenuation Default Source[1]		2800	2100	21000	2800	2100	5	480	5	50	20

Well	Date	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Nitrate (mg/L)	Nitrite (mg/L)	Orthophosphate (mg/L)	Sulfate (mg/L)	TRPH (ug/L)
CEF-46-1S	12/21/00	<0.22	<0.22	<0.22	0.002 J	0.15	<1	NM	[illegible]
	01/26/01	<0.20	<0.20	<0.20	<0.60	0.2	0.25	NM	290
	03/14/03	<4.0	<4.0	<4.0	<0.100	0.15	<0.100	NM	77000
	06/09/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	NM	33200
	09/03/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	NM	38300
	12/11/03	<0.10	<0.10	<0.10	<0.10	<0.30	<0.100	NM	39600
	03/16/04	<0.10	<0.10	<0.10	<0.100	<0.30	<0.100	NM	16200
	06/08/04	<0.204	<0.204	<0.204	<0.100	<0.005	0.083 ?	NM	15400
	09/21/04	<0.220Y	<0.220Y	<2020 J3Y	<0.02Y	<0.005Y	0.389Y	NM	33300Y
	12/01/04	<0.133	<0.094	<0.160	<0.018	<0.005	0.099	NM	25200
	03/13/05	<0.121	<0.146	<0.102	<0.0550	0.006	0.0317 V	NM	23000
	06/09/05	< 0.121	< 0.146	< 0.102	< 0.055	< 0.005 J4	0.0740	109	41100
	09/06/05	<0.121	<0.146	<0.100	<0.055	<0.005	0.116	97.9	51000
	12/06/05	<1.34	<1.62	<1.11	NM	NM	NM	42.8	36500
	03/29/06	<0.121	<0.146	<0.100	NM	NM	NM	4.37	35300
	06/09/06	<0.121	<.0146	<0.100	NM	NM	NM	24.5	17100
	09/24/06	<0.121	<0.146	<0.100	NM	NM	NM	63.0	12300
	12/09/06	<0.121	<0.146	<0.100	NM	NM	NM	11000	4130
CEF-46-2S	12/21/00	<0.22	<0.22	<0.22	<0.60	<0.4	0.22	NM	3100
	01/25/01	<0.20	<0.20	<0.20	0.083	<0.40	<1.0	NM	640
	03/14/03	<2.0	<2.0	<2.0	<0.100	0.100	<0.100	NM	1370
	06/05/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	NM	339
	09/03/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	NM	339
	12/11/03	<0.10	<0.10	<0.10	<0.10	<0.30	<0.100	NM	796
	03/18/04	<0.10	<0.10	<0.10	<0.100	<0.30	<0.100	NM	436
	06/08/04	<0.204	<0.204	<2.04	<0.10	<0.005	0.160 ?	NM	530
	09/21/04	<0.217Y	<0.217Y	<2.17 J3Y	0.1Y	0.005Y	0.027 ?Y	NM	0.26Y
	12/01/04	<0.133	<0.094	<0.160	<0.018	0.007	0.08	NM	2450
	03/13/05	<0.121	<0.146	<0.102	<0.0550	0.008	0.0350 V	NM	1600
	06/09/05	< 0.121	< 0.146	< 0.102	< 0.055	0.014	0.0330	664	1850
	09/06/05	<0.121	<0.146	<0.100	< 0.055	<0.005	0.00800	643	NM
	09/21/05	NM	NM	NM	NM	NM	NM	NM	341
	12/06/05	<0.121	<0.146	<0.100	NM	NM	NM	1680	654
	03/30/06	<0.121	<0.146	<0.100	NM	NM	NM	722	1170
	06/09/06	<0.121	<0.146	<0.100	NM	NM	NM	442	623
	09/25/06	<0.121	<0.146	<0.100	NM	NM	NM	297	704
	12/08/06	<0.121	<0.146	<0.100	NM	NM	NM	416	431
CEF-46-3S	12/06/06	<0.125	<0.151	<0.103	NM	NM	NM	503	40 I
CEF-46-4S	12/06/06	<0.125	<0.151	<0.103	NM	NM	NM	255	<18
CEF-46-6I	12/21/00	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	NM	<550
	01/25/01	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	NM	<520
	03/14/03	<2.0	<2.0	<2.0	<0.100	0.35	3.92	NM	<200
	06/05/03	<0.10	<0.10	<0.10	<0.30	<0.30	<0.282	NM	<106
	09/03/03	<0.10	<0.10	<0.10	<0.100	<0.30	0.965	NM	333
	12/11/03	<0.10	<0.10	<0.10	<0.100	<0.30	1.31	NM	456
	03/18/04	<0.10	<0.10	<0.10	<0.600	<0.60	<0.100	NM	242
	06/08/04	<0.204	<0.204	<2.04	<0.100	0.46	2.09 ?	NM	<200
	09/21/04	<0.220Y	<0.220Y	<2.20 J3Y	<0.02Y	0.118Y	0.103Y	NM	<200Y
	12/01/04	<0.134	<0.095	<0.162	<0.018	<0.005	<0.003	NM	120 I V
	03/13/05	<0.134	<0.162	<0.113	<0.0550	0.021	1.91	NM	<18
	06/09/05	< 0.121	< 0.146	< 0.102	< 0.055	0.005	4.16	5440	19 I
	09/06/05	<0.121	<0.146	<0.100	<0.055	0.023	0.0410	462	<18
	12/06/05	<0.121	<0.146	<0.100	NM	NM	NM	2520	<18
	03/29/06	<0.121	<0.146	<0.100	NM	NM	NM	1660	<18
	06/09/06	<0.121	<0.146	<0.100	NM	NM	NM	2360	129 I
	09/24/06	<0.121	<0.146	<0.100	NM	NM	NM	1910	56 I
	12/08/06	<0.121	<0.146	<0.100	NM	NM	NM	14400	18 I
CEF-46-6D	12/21/00	<0.21	<0.21	<0.21	<0.6	<0.4	0.22	NM	<560
	02/06/01	<0.21	<0.21	<0.21	<0.60	<0.40	<1.0	NM	<500
	03/14/03	<2.0	<2.0	<2.0	<0.100	0.270	4.61	NM	274
	06/09/03	<1.0	<1.0	<1.0	<1.0	<1.0	0.674	NM	<200
	09/03/03	<1.0	<1.0	<1.0	<0.300	<0.30	5.81	NM	<225
	12/10/03	<1.0	<1.0	<1.0	<0.100	0.33	1.34	NM	<200
	03/16/04	<0.10	<0.10	<0.10	<0.500	<1.00	<0.100	NM	<100
	06/08/04	<0.204	<0.204	<2.04	<0.100	0.102	0.127 ?	NM	<200
	09/21/04	<0.215Y	<0.216Y	<2.15 J3Y	<0.02Y	0.008Y	0.013 ?Y	NM	<220Y
	12/01/04	<0.135	<0.096	<0.164	<0.018	<0.084	22.5	NM	140 I V
	03/13/05	<0.134	<0.162	<0.113	<0.0550	0.059	17.8	NM	<18
	06/09/05	< 0.121	< 0.146	< 0.102	< 0.055	0.054	19.6 Q	9580	24 I
	09/06/05	<0.121	<0.146	<0.100	<0.150	1.20	0.0680	7950	<18
	12/06/05	<0.121	<0.146	<0.100	NM	NM	NM	8480	<18
	03/29/06	<0.121	<0.146	<0.100	NM	NM	NM	8270	<18
	06/09/06	<0.121	<0.146	<0.100	NM	NM	NM	7510	135 I
	09/24/06	<0.121	<0.146	<0.100	NM	NM	NM	5290	36 I
	12/08/06	<0.121	<0.146	<0.100	NM	NM	NM	12480	74 I
CEF-46-7I	12/21/00	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	NM	13000
	02/22/01	<0.20	<0.20	<0.20	<0.6	<0.4	<1.0	NM	17000
	03/14/03	<2.0	<2.0	<2.0	<0.100	<0.100	<0.100	NM	5480
	06/09/03	<0.10	<0.10	<0.10	<0.50	<0.50	<0.100	NM	4060
	09/03/03	<0.10	<0.10	<0.10	<0.100	<0.10	<0.100	NM	2530
	12/11/03	<0.10	<0.10	<0.10	<0.100	<0.30	<0.100	NM	5410
	03/18/04	<0.10	<0.10	<0.10	<0.100	<0.60	<0.100	NM	1900
	06/08/04	<0.204	<0.204	<2.04	<0.100	0.022	0.073 ?	NM	650
	09/21/04	<0.220Y	<0.220Y	<2.20 J3Y	<0.02Y	0.016Y	0.028 ?Y	NM	960Y
	12/01/04	<0.130	<0.092	<0.157	0.016	0.034	0.012	NM	1770
	03/13/05	<0.121	<0.146	<0.102	<0.0550	<0.005	0.00510 V I	NM	1570
	06/09/05	< 0.121	< 0.146	< 0.102	< 0.055	0.005	0.0250	279	1360
	09/06/05	<0.121	<0.146	<0.100	<0.055	0.013	0.0190	167	1280
	12/06/05	<0.134	<0.162	<0.111	NM	NM	NM	54.6	970
	03/30/06	<0.121	<0.146	<0.100	NM	NM	NM	37.1	<18
	06/09/06	<0.121	<0.146	<0.100	NM	NM	NM	33.0	832
	09/25/06	<0.121	<0.146	<0.100	NM	NM	NM	28.6	544
	12/08/06	<0.121	<0.146	<0.100	NM	NM	NM	139.0	<18
Groundwater Criteria[1]		0.05	0.005	210	10 *	1 *	n/a	250 *	5000
Natural Attenuation Default Source[1]		5	0.5	2100	100 *	10 *	n/a	n/a	50000

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	Benzene	Ethyl Benzene	Toluene	Xylene	BTEX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene
CEF-46-8I	12/06/05	<0.143	<0.201	<0.14[illegible]	<0.220	<0.220	13.8	<0.103	<0.137	<0.209	<0.0866	<0.115	<0.0928	<0.103	<0.0825
CEF-46-9I	12/20/00	<1.0	<1.0	<1.0	<1.0	<4.0	NM	<1.1	NM	NM	<1.1	<1.1	<1.1	<1.1	<1.1
	01/25/01	<1.0	<1.0	<1.0	<1.0	<4.0	1.3	<1.0	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	06/04/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	0.22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	12/10/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	0.22	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	03/16/04	<1.00	<1.0	<1.0	<3.0	<3.0	<1.0	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
	06/08/04	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.20	<2.20	<2.20	<5.49	<2.20	<2.20	<5.49	<2.20
	09/21/04	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	3.92Y	<2.20 J3Y	<2.20 J3Y	<2.20 J3Y	<5.49 J3Y	<2.20 J3Y	<2.20 J3Y	<5.49Y	<1.10Y
	12/01/04	<0.143	0.5500 I	<0.1417	0.440 I	0.990 I	28.85	0.32 I	<0.202	<0.212	<0.232	<0.164	<0.124	<0.108	<0.117
	03/13/05	<0.143	<0.201	<0.142	<0.220	<0.220	16.0	<0.101	<0.133	<0.210	<0.0840	<0.112	<0.0900	<0.0990	<0.0760
	06/09/05	< 0.143	0.420 I	< 0.142	0.560 I	0.970 I	13.5	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112	< 0.0900	< 0.0990	< 0.0760
	09/06/05	< 0.143	<0.201	<0.142	0.220 I	0.220 I	79.7	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	12/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	48.1	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	03/30/06	0.260 I	<0.126	<0.176	<0.298	<0.298	24.2	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	06/09/06	<0.305	<0.338	<0.257	<0.433	<0.433	12.7	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	09/24/06	<0.305	<0.338	<0.257	<0.433	<0.433	14.6	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	12/06/06	<0.305	<0.338	<0.257	<0.433	<0.433	9.52	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
CEF-46-10I	12/06/05	<0.143	<0.201	<0.143	<0.220	<0.220	<0.236	<0.102	<0.136	<0.207	<0.0857	<0.114	<0.0918	<0.102	<0.0816
CEF-46-11I	12/06/05	<0.143	<0.201	<0.142	<0.229	<0.229	<0.236	<0.105	<0.140	<0.214	<0.0884	<0.116	<0.0947	<0.105	<0.0842
CEF-46-12I	12/20/00	<1.0	<1.0	<1.0	<1.0	<4.0	NM	<1.1	NM	NM	<1.1	<1.1	<1.1	<1.1	<1.1
	01/24/01	<1.0	<1.0	<1.0	<1.0	<4.0	14	<1.0	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	06/05/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	12/11/03	<1.00	<1.0	<1.0	<3.0	<1.0	2.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	03/16/04	<1.00	<1.0	<1.0	<3.0	<3.0	79.9	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	06/08/04	<1.00	<1.00	<1.00	<1.00	<1.00	502	<2.20	<2.20	<2.20	<5.49	<2.20	<2.20	<5.49	<1.10
	09/21/04	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	15.9Y	<2.00 J3Y	<2.00 J3Y	<2.00 J3Y	<5.00 J3Y	<2.00 J3Y	<2.00 J3Y	<5.00Y	<1.00Y
	12/01/04	<0.143	<0.2010	<0.1417	<0.220	<0.220	8.480	<0.22	<0.200	<0.210	<0.230	<0.162	<0.123	<0.107	<0.116
	03/13/05	<0.143	<0.201	<0.142	<0.220	<0.220	0.450 I	<0.101	<0.133	<0.210	<0.0840	<0.112	<0.0900	<0.0990	<0.0760
	06/09/05	<0.143	<0.201	<0.142	<0.220	<0.220	< 0.236	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112	< 0.0900	< 0.0990	< 0.0780
	09/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	< 0.236	<0.100	<0.133	<0.203	<0.0810	< 0.112	< 0.0900	<0.100	<0.0800
	12/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	03/29/06	<0.140	<0.126	<0.176	<0.298	<0.298	0.310 I	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	06/09/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	09/25/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	12/06/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
CEF-46-13I	12/20/00	<1.0	<1.0	<1.5	0.45	0.45	NM	0.69	NM	NM	<1.1	<1.1	<1.1	<1.1	<1.1
	01/24/01	<1.0	<1.0	1.5	0.62	2.12	280	0.6	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	318	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	06/05/03	1.10	<1.0	<1.0	<1.0	1.1	254	0.19	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	240	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	12/11/03	<1.00	<1.0	<1.0	<0.30	<1.0	114	0.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	03/16/04	<1.00	<1.0	<1.0	<3.0	<3.0	60.7	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	06/08/04	<1.00	<1.00	<1.00	<1.00	<1.00	83.8	<2.02	<2.02	<2.02	<5.05	<2.02	<2.02	<5.05	<1.01
	09/21/04	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	149Y	<2.22 J3Y	<2.22 J3Y	<2.22 J3Y	<5.56 J3Y	<2.22 J3Y	<2.22 J3Y	<5.56Y	<1.11Y
	12/01/04	<0.143	0.9000 I	<0.1417	1.29 I	2.19 I	337.5	<0.22	<0.202	<0.212	<0.232	<0.164	<0.124	<0.108	<0.117
	03/13/05	<0.143	<0.201	<0.142	<0.220	<0.220	133	<0.101	<0.133	<0.210	<0.0840	<0.112	<0.0900	<0.0990	<0.0780
	06/09/05	<0.143	<0.201	<0.142	<0.220	<0.220	62.7	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112	< 0.0900	< 0.0990	< 0.0780
	09/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	1.75 I	<0.100	< 0.133	<0.203	<0.0840	<0.112	< 0.0900	<0.100	<0.0800
	12/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	0.880 I	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	03/29/06	<0.140	<0.126	<0.176	<0.298	<0.298	0.400 I	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	06/09/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	09/25/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	12/06/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
CEF-46-14D	12/20/00	<1.0	<1.0	0.42	0.37	0.79	NM	<1.1	NM	NM	<1.1	<1.1	<1.1	<1.1	<1.1
	01/24/01	<1.0	<1.0	<1.0	0.23	0.23	<1.0	<1.0	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	06/04/03	<1.00	<1.0	<1.0	<1.0	<1.0	1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	12/10/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	03/16/04	<1.00	<1.0	<1.0	<3.0	<3.0	4.2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	06/08/04	<1.00	<1.00	<1.00	<1.00	<1.00	2.4	<2.20	<2.20	<2.20	<5.49	<2.20	<2.20	<5.49	<1.10
	09/21/04	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	2.97Y	<2.20 J3Y	<2.20 J3Y	<2.20 J3Y	<5.49 J3Y	<2.20 J3Y	<2.20 J3Y	<5.49Y	<1.10Y
	12/01/04	<0.143	<0.2010	<0.1417	<0.220	<0.220	2.500	<0.22	<0.204	<0.214	<0.235	<0.165	<0.126	<0.110	<0.116
	03/13/05	<0.143	<0.201	<0.142	<0.220	<0.220	3.190	<0.101	<0.133	<0.210	<0.084	<0.112	<0.0900	<0.0990	<0.0780
	06/09/05	<0.143	<0.201	<0.142	<0.220	<0.220	1.38 I	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112	< 0.0900	< 0.0990	< 0.0780
	09/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	5.30	<0.100	< 0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	12/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	8.21	<0.111	<0.148	<0.226	<0.0933	<0.124	<0.100	<0.111	<0.0889
	03/29/06	<0.140	<0.126	<0.176	<0.298	<0.298	1.07	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	06/09/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	09/24/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	12/06/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.253	<0.0840	<0.112	<0.0900	<0.100	<0.0800
CEF-46-15I	12/20/00	<1.0	<1.0	<1.0	<1.0	<4.0	NM	<1.1	NM	NM	<1.1	<1.1	<1.1	<1.1	<1.1
	01/24/01	0.17	<1.0	<1.0	<1.0	0.17	<1.0	<1.0	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0
	03/13/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4
	06/04/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.42	<0.10
	12/10/03	<1.00	<1.0	<1.0	<3.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.42	<0.10
	03/16/04	<1.00	<1.0	<1.0	<3.0	<3.0	<1.0	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11
	06/08/04	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.20	<2.20	<2.20	<5.49	<2.20	<2.20	<5.49	<1.10
	09/21/04	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<2.11Y	<2.11 J3Y	<2.11 J3Y	<5.26Y	<2.11Y	<2.11Y	<5.26Y	<1.05Y
	12/01/04	<0.143	<0.2010	<0.1417	<0.220	<0.220	<0.2359	<0.23	<0.206	<0.216	<0.237	<0.167	<0.127	<0.111	<0.120
	03/13/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.101	<0.133	<0.210	<0.0840	<0.112	<0.0900	<0.0990	<0.0780
	06/09/05	<0.143	<0.201	<0.142	<0.220	<0.220	< 0.236	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112	< 0.0900	< 0.0990	< 0.0780
	09/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	< 0.236	<0.100	< 0.133	<0.203	< 0.0840	< 0.112	< 0.0900	<0.100	<0.0800
	12/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.111	<0.148	<0.226	<0.0933	<0.124	<0.100	<0.111	<0.0889
	03/30/06	<0.140	<0.126	<0.176	<0.298	<0.298	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	06/09/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	09/24/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
	12/06/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800
Groundwater Criteria[1]		1	30	40	20	n/a	20	14	28	28	210	20	280	210	2100
Natural Attenuation Default Source[2]		100	300	400	200	n/a	200	140	280	280	2100	200	2800	2100	21000

Well	Date	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Nitrate (mg/L)	Nitrite (mg/L)	Orthophosphate (mg/L)	Sulfate (mg/L)	TRPH (ug/L)
CEF-46-8I	12/06/05	<0.111	<0.139	<0.109	<0.0691	<0.0619	<0.0928	<0.155	<0.125	<0.161	<0.103	NM	NM	NM	13.3	<18
CEF-46-9I	12/20/00	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	NM	<570
	01/25/01	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	NM	<500
	03/14/03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	0.170	<0.100	NM	<200
	06/04/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.30	0.411	NM	<211
	09/03/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.100	<0.30	<0.100	NM	<225
	12/10/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.100	0.180	0.308	NM	<200
	03/16/04	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.300	<0.30	<0.100	NM	<111
	06/08/04	<1.10	<5.49	<0.220	<2.20	<0.220	<0.549	<0.220	<0.220	<0.220	<2.20	<0.100	<0.005	0.055 ?	NM	<210
	09/21/04	<1.10Y	<5.49Y	<0.220Y	<2.20Y	<0.220Y	<0.549Y	<0.220Y	<0.220Y	<0.220Y	<0.220 J3Y	<0.02Y	<0.005Y	0.018 ?Y	NM	220Y
	12/01/04	<0.105	<0.101	<0.149	<0.083	<0.101	<0.257	<0.165	<0.131	<0.093	<0.159	<0.018	<0.005	0.013	NM	80 I V
	03/13/05	<0.108	<0.135	<0.106	<0.0630	<0.0600	<0.0900	<0.154	<0.121	<0.146	<0.102	<0.0550	<0.005	0.00830 V	NM	<18
	06/09/05	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154	< 0.121	< 0.146	< 0.102	< 0.055	< 0.005	0.00800	253	< 18
	09/06/05	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	<0.055	<0.005	0.0340	288 ?	< 18
	12/06/05	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	486	<18
	03/30/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	556	181
	06/09/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	380	452
	09/24/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	114	54 I
	12/06/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	228	<18
CEF-46-10I	12/06/05	<0.110	<0.138	<0.108	<0.0584	<0.0612	<0.0918	<0.153	<0.123	<0.148	<0.102	NM	NM	NM	9.04	<18
CEF-46-11I	12/06/05	<0.114	<0.142	<0.112	<0.0705	<0.0632	<0.0947	<0.158	<0.127	<0.154	<0.105	NM	NM	NM	17.4	<18
CEF-46-12I	12/20/00	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<2.0	NM	<530
	01/24/01	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	NM	<520
	03/14/03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	<0.100	<0.100	NM	<200
	06/05/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	NM	<100
	09/03/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	<0.100	NM	<225
	12/11/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	<0.100	NM	<200
	03/16/04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.800	<0.60	<0.100	NM	<222
	06/08/04	<1.10	<5.49	<0.220	<2.20	<0.220	<0.549	<0.220	<0.220	<0.220	<2.20	0.026 ?	0.014	0.017 ?	NM	<200
	09/21/04	<1.00Y	<5.00Y	<0.200Y	<2.00Y	<0.200Y	<0.500Y	<0.200Y	<0.200Y	<0.200Y	<0.200 J3Y	<0.02Y	<0.005Y	0.052 ?Y	NM	<200Y
	12/01/04	<0.104	<0.100	<0.147	<0.082	<0.100	<0.254	<0.163	<0.130	<0.092	<0.157	0.046	0.006	0.017	NM	240 I V
	03/13/05	<0.108	<0.135	<0.106	<0.0630	<0.0600	<0.0900	<0.154	<0.121	<0.146	<0.102	<0.0550	0.009 I	0.00600 V I	NM	<18
	06/09/05	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154	< 0.121	< 0.146	< 0.102	< 0.055	0.006	0.00800	47.5	< 18
	09/06/05	< 0.108	<0.135	< 0.106	<0.0670	< 0.0600	< 0.0900	<0.150	< 0.121	< 0.146	<0.100	< 0.055	<0.005	0.0230	57.1	< 18
	12/06/05	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	43.9	<18
	03/29/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	47.8	<18
	06/09/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	49.9	70 I
	09/25/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	63	<18
	12/06/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	68.3	<18
CEF-46-13I	12/20/00	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	NM	[illegible]
	01/24/01	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	NM	320
	03/14/03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	<0.100	<0.100	NM	276
	06/05/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	NM	<100
	09/03/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	<0.100	NM	<225
	12/11/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.60	<0.100	NM	206
	03/16/04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.600	<0.30	<0.100	NM	<260
	06/08/04	<1.01	<5.05	<0.202	<2.02	<0.202	<0.505	<0.202	<0.202	<0.202	<2.02	<0.02	<0.005	0.078 ?	NM	<220
	09/21/04	<1.11Y	<5.56Y	<0.222Y	<2.22Y	<0.222Y	<0.556Y	<0.222Y	<0.222Y	<0.222Y	<2.22 J3Y	<0.02Y	<0.005Y	0.0137Y	NM	<200Y
	12/01/04	<0.105	<0.101	<0.149	<0.083	<0.101	<0.257	<0.165	<0.131	<0.093	<0.159	<0.018	<0.005	0.017	NM	150 I V
	03/13/05	<0.108	<0.135	<0.106	<0.0630	<0.0600	<0.0900	<0.154	<0.121	<0.146	<0.102	<0.0550	0.013	0.00500 I V	NM	<18
	06/09/05	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154	< 0.121	< 0.146	< 0.102	< 0.055	< 0.005	0.0180	461	< 18
	09/06/05	<0.108	<0.135	< 0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	< 0.146	<0.100	< 0.055	< 0.005	0.0370	519	< 18
	12/06/05	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	169	<18
	03/29/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	104	<18
	06/09/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	54.3	96 I
	09/25/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	33.5	<18
	12/06/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	42.6	<18
CEF-46-14D	12/20/00	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	0.088	<0.4	0.29	NM	<560
	01/24/01	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	0.17	NM	<530
	03/14/03	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	<0.100	0.102	NM	248
	06/04/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.102	NM	<211
	09/03/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	0.168	NM	<225
	12/10/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.100	0.176	NM	<200
	03/16/04	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.10	<0.100	NM	<100
	06/08/04	<1.10	<5.49	<0.220	<2.20	<0.220	<0.549	<0.220	<0.220	<0.220	<2.20	0.018 ?	<0.005	0.134 ?	NM	<220
	09/21/04	<1.10Y	<5.49Y	<0.220Y	<2.20Y	<0.220Y	<0.549Y	<0.220Y	<0.220Y	<0.220Y	<2.20 J3Y	<0.02 QY	<0.005Y	0.144Y	NM	<200Y
	12/01/04	<0.106	<0.102	<0.150	<0.084	<0.102	<0.259	<0.167	<0.133	<0.094	<0.160	<0.018	<0.005	0.161	NM	80 I V
	03/13/05	<0.108	<0.135 J3	<0.106	<0.0630	<0.0600	<0.0900	<0.154	<0.121	<0.146	<0.102	<0.0550	<0.005	0.169	NM	<20
	06/09/05	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154	< 0.121	< 0.146	< 0.102	< 0.055	0.005	0.271	5.16	< 20
	09/06/05	<0.108	<0.135	< 0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	< 0.146	<0.100	< 0.055	0.005	0.316	29.3 ?	<18
	12/06/05	<0.120	<0.150	<0.118	<0.0744	<0.0667	<0.100	<0.167	<0.134	<0.162	<0.111	NM	NM	NM	15.3	<18
	03/29/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	2.12	<18
	06/09/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	<2.00	94 I
	09/24/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	2.91 J4	<18
	12/06/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	<2.00	52 I
CEF-46-15I	12/20/00	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	NM	<560
	01/24/01	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	NM	<530
	03/13/03	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<2.4	<0.100	<0.100	<0.100	NM	<290
	06/04/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	NM	<222
	09/03/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.10	<0.100	NM	<225
	12/10/03	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.100	<0.100	NM	<200
	03/16/04	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.100	<0.10	<0.100	NM	<100
	06/08/04	<1.10	<5.49	<0.220	<2.20	<0.220	<0.549	<0.220	<0.220	<0.220	<2.20	0.021 ?	<0.005	0.006 ?	NM	<220
	09/21/04	<1.05Y	<5.26Y	<0.211Y	<2.11Y	<0.211Y	<0.526Y	<0.211Y	<0.211Y	<0.211Y	<2.11Y	<0.02 QY	<0.005Y	0.006 ?Y	NM	<220Y
	12/01/04	<0.107	<0.103	<0.152	<0.085	<0.103	<0.262	<0.168	<0.134	<0.095	<0.162	<0.018	<0.005	0.005 I	NM	110 I V
	03/13/05	<0.108	<0.135	<0.106	<0.0630	<0.0600	<0.0900	<0.154	<0.121	<0.146	<0.102	<0.0550	<0.005	0.00500 I V	NM	<18.0
	06/09/05	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154	< 0.121	< 0.146	< 0.102	< 0.055	< 0.05	0.0100	25.6	< 20
	09/06/05	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	< 0.146	<0.100	< 0.055	<0.005	<0.00360	34.8 ?	<18
	12/06/05	<0.120	<0.150	<0.118	<0.0744	<0.0667	<0.100	<0.167	<0.134	<0.162	<0.111	NM	NM	NM	20.3	<18
	03/30/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	29.8	<18
	06/09/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	26.7	28 I
	09/24/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	23.9	<18
	12/06/06	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	33.8	<18
Groundwater Criteria[1]		280	210	0.05	4.8	0.05	0.5	0.2	0.05	0.005	210	10 *	1 *	n/a	250 *	5000
Natural Attenuation Default Source[2]		2800	2100	5	480	5	50	20	5	0.5	2100	100 *	10 *	n/a	n/a	50000

TABLE 3
GROUNDWATER ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Well	Date	Benzene	Ethyl Benzene	Toluene	Xylene	BTEX	Methyl tert-butyl ether	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	Nitrate (mg/L)	Nitrite (mg/L)	Orthophosphate (mg/L)	Sulfate (mg/L)	TRPH (ug/L)
CEF-46-16I	12/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.102	<0.136	<0.207	<0.0857	<0.114	<0.0918	<0.102	<0.0616	<0.110	<0.138	<0.0684	<0.0684	<0.0612	<0.0918	<0.153	<0.123	<0.149	<0.102	NM	NM	NM	20.5	<18
CEF-46-17D	12/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	27.4	<0.105	<0.140	<0.214	<0.0884	<0.118	<0.0947	<0.105	<0.0642	<0.114	<0.142	<0.112	<0.0705	<0.0632	<0.0947	<0.158	<0.127	<0.154	<0.105	NM	NM	NM	982	156 I
CEF-46-18I	12/07/05	<0.143	<0.201	<0.142	0.440 I	0.440 I	1.17 I	<0.111	<0.148	<0.226	<0.0933	<0.124	<0.100	<0.111	<0.0689	<0.120	<0.150	<0.118	<0.0744	<0.0667	<0.100	<0.167	<0.134	<0.162	<0.111	NM	NM	NM	84.9	<20
CEF-46-19I	12/07/05	21.6	0.640 I	<0.142	4.86	26.46	27.7	<0.103	<0.137	<0.209	<0.0856	<0.115	<0.0928	<0.103	<0.0625	<0.111	<0.139	<0.109	<0.0691	<0.0619	<0.0928	<0.155	<0.125	<0.151	<0.103	NM	NM	NM	1230	<20
CEF-46-20I	12/07/05	<0.143	<0.201	<0.142	<0.220	<0.220	0.940 I	<0.109	<0.145	<0.221	<0.0913	<0.122	<0.0978	<0.109	<0.0670	<0.117	<0.147	<0.115	<0.0726	<0.0652	<0.0978	<0.163	<0.132	<0.159	<0.109	NM	NM	NM	112	<18
CEF-46-21I	12/20/00	<1.0	<1.0	<1.0	<1.0	<4.0	NM	<1.1	NM	NM	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	NM	<350
	01/25/01	0.25	<1.0	0.7	<1.0	0.95	<1.0	<1.0	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	NM	300
	03/13/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<2.2	<0.100	<0.100	<0.100	NM	<200
	06/05/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	NM	<100
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	0.18	0.27	0.2	<0.10	0.5	0.67	2.82	0.16	0.35	0.16	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.16	<0.10	<0.100	NM	308
	12/11/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.10	<0.100	NM	<200
	03/16/04	<1.00	<1.0	<1.0	<3.0	<3.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.300	<0.30	<0.100	NM	<222
	06/08/04	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.04	<2.04	<2.04	<5.10	<2.04	<2.04	<5.10	<1.02	<1.02	<5.10	<0.204	<2.04	<0.204	<0.510	<0.204	<0.204	<0.204	<2.04	<0.020	<0.005	0.010 ?	NM	<200
	09/21/04	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<2.20Y	<2.20 J3Y	<2.20 J3Y	<5.49Y	<2.20Y	<2.20Y	<5.49Y	<1.10Y	<1.10Y	<5.49Y	<0.220Y	<2.20Y	<0.220Y	<0.549Y	<0.220Y	<0.220Y	<0.220Y	<2.20Y	<0.04 QY	<0.005Y	0.006Y	NM	<220Y
	12/01/04	<0.143	<0.2010	<0.1417	<0.220	<0.220	<0.2359	<0.23	<0.206	<0.216	<0.237	<0.167	<0.127	<0.111	<0.120	<0.107	<0.103	<0.152	<0.085	<0.103	<0.262	<0.168	<0.134	<0.095	<0.162	<0.018	<0.005	0.007	NM	100 I V
	03/13/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.101	<0.133	<0.210	<0.0840	<0.112	<0.0900	<0.0990	<0.0780	<0.108	<0.135 J3	<0.106	<0.0630	<0.0600	<0.0900	<0.154	<0.121	<0.146	<0.102	<0.0550	<0.005	0.00500 I V	NM	<18
	06/09/05	<0.143	<0.201	<0.142	<0.220	<0.220	< 0.236	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112	< 0.0900	< 0.0990	< 0.0780	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154	< 0.121	< 0.146	< 0.102	< 0.065	< 0.05	< 0.00360	14.1	< 18
	09/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	< 0.236	<0.100	<0.133	<0.203	<0.0840	< 0.112	< 0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	< 0.0600	< 0.0900	<0.150	< 0.121	< 0.146	<0.100	< 0.055	<0.005	<0.00360	29.5	< 18
	12/07/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.111	<0.148	<0.226	<0.0933	<0.124	<0.100	<0.111	<0.0689	<0.120	<0.150	<0.118	<0.0744	<0.0667	<0.100	<0.167	<0.134	<0.162	<0.111	NM	NM	NM	10.6	<20
	03/29/06	<0.140	<0.126	<0.176	<0.298	<0.298	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	14.9	<18
	06/09/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	12.6	76 I
	09/24/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	26.2	35 I
	12/08/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	34.3	<18
CEF-46-22I	12/07/05	<0.143	<0.201	<0.142	0.570 I	0.570 I	<0.236	<0.105	<0.140	<0.214	<0.0884	<0.118	<0.0947	<0.105	<0.0642	<0.114	<0.142	<0.112	<0.0705	<0.0632	<0.0947	<0.158	<0.127	<0.154	<0.105	NM	NM	NM	1060	<20
CEF-46-23D	12/07/05	0.900 I	2.04	1.48 I	40.7	45.12	0.320 I	<0.111	<0.148	<0.226	<0.0933	<0.124	<0.100	<0.111	<0.0689	<0.120	<0.150	<0.118	<0.0744	<0.0667	<0.100	<0.167	<0.134	<0.162	<0.111	NM	NM	NM	6310	102 I
CEF-46-24D	12/20/00	<1.0	<1.0	0.47	9.41	0.88	NM	<1.1	NM	NM	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	0.18	NM	<500
	01/25/01	8.3	0.81	1	2	12.11	<1.0	<1.0	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	0.19	NM	<510
	03/14/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	0.21	0.841	NM	<200
	06/05/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.436	NM	<100
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.30	0.212	NM	<225
	12/10/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	0.16	0.119	NM	<200
	03/16/04	<1.00	<1.0	<1.0	<3.0	<3.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.300	<0.10	<0.100	NM	<100
	06/08/04	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.20	<2.20	<2.20	<5.49	<2.20	<2.20	<5.49	<1.10	<1.10	<5.49	<0.220	<2.20	<0.220	<0.549	<0.220	<0.220	<0.220	<2.20	0.018 ?	<0.005	0.679 ?	NM	<200
	09/21/04	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<2.04Y	<2.04 J3Y	<2.04 J3Y	<5.10Y	<2.04Y	<2.04Y	<5.10Y	<1.02Y	<1.02Y	<5.10Y	<0.204Y	<2.04Y	<0.204Y	<0.510Y	<0.204Y	<0.204Y	<0.204Y	<0.204Y	<0.02 QY	<0.005Y	0.027Y	NM	<200Y
	12/01/04	<0.143	<0.2010	<0.1417	<0.220	<0.220	<0.2359	0.40 I	<0.200	<0.210	<0.230	<0.162	<0.123	<0.107	<0.116	<0.104	<0.100	<0.147	<0.082	<0.100	<0.254	<0.163	<0.130	<0.092	<0.157	<0.018	<0.005	<0.003	NM	130 I V
	03/13/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.101	<0.133	<0.210	<0.0840	<0.112	<0.0900	<0.0990	<0.0780	<0.108	<0.135 J3	<0.106	<0.0630	<0.0600	<0.0900	<0.154	<0.121	<0.146	<0.102	<0.0550	<0.005	0.138	NM	<18
	06/09/05	<0.143	<0.201	<0.142	<0.220	<0.220	< 0.236	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112	< 0.0900	< 0.0990	< 0.0780	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154	< 0.121	< 0.146	< 0.102	< 0.055	< 0.005	0.154	2030	< 20
	09/06/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	<0.055	<0.005	0.0960	1840	<18
	12/07/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	2120	<22
	03/29/06	<0.140	<0.126	<0.176	<0.298	<0.298	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	1800	<18
	06/09/06	<0.305	<0.386	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	1430	125 I
	09/24/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	732	31 I
	12/08/06	<0.305	<0.338	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	737	34 I
CEF-46-25I	12/20/00	<1.0	<1.0	<1.0	<1.0	<4.0	NM	<1.1	NM	NM	<1.1	<1.1	<1.1	<1.1	<1.1	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.6	<0.4	<5.0	NM	<350
	01/25/01	0.25	<1.0	<1.0	0.42	0.67	<1.0	<1.0	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	NM	320
	03/13/03	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<2.3	<0.100	0.15	<0.100	NM	<200
	06/04/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	NM	<200
	09/03/03	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.300	<0.30	<0.100	NM	<225
	12/10/03	<1.00	<1.0	<1.0	<3.0	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.100	<0.100	NM	<200
	03/16/04	<1.00	<1.0	<1.0	<3.0	<3.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.300	<0.10	<0.100	NM	<111
	06/08/04	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<2.02	<2.02	<2.02	<5.05	<2.02	<2.02	<5.05	<1.01	<1.01	<5.05	<0.202	<2.02	<0.202	<0.505	<0.202	<0.202	<0.202	<2.02	<0.020	<0.005	0.040 ?	NM	<200
	09/21/04	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<1.00Y	<2.11Y	<2.11 J3Y	<2.11 J3Y	<5.26Y	<2.11Y	<2.11Y	<5.26Y	<1.05Y	<1.05Y	<5.26Y	<0.211Y	<2.11Y	<0.211Y	<0.526Y	<0.211Y	<0.211Y	<0.211Y	<2.11Y	<0.02 QY	<0.005Y	0.035 ?Y	NM	<220Y
	12/01/04	<0.143	0.4800 I	<0.1417	<0.220	0.4800 I	<0.2359	<0.22	<0.204	<0.214	<0.235	<0.168	<0.126	<0.110	<0.116	<0.106	<0.102	<0.150	<0.084	<0.102	<0.258	<0.167	<0.133	<0.094	<0.160	<0.018	<0.005	<0.027	NM	100 I V
	03/13/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.101	<0.133	<0.210	<0.0840	<0.112	<0.0900	<0.0990	<0.0780	<0.108	<0.135 J3	<0.106	<0.0630	<0.0600	<0.0900	<0.154	<0.121	<0.146	<0.102	<0.0550	<0.005	0.0176 V	NM	<18
	06/09/05	<0.143	<0.201	<0.142	<0.220	<0.220	< 0.236	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112	< 0.0900	< 0.0990	< 0.0780	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154	< 0.121	< 0.146	< 0.102	< 0.055	< 0.005	0.0210	622	< 20
	09/06/05	<0.143	<0.201	<0.142	0.590 I	<0.220	< 0.236	0.260 I	< 0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	< 0.106	<0.0670	< 0.0600	< 0.0900	<0.150	< 0.121	< 0.146	<0.100	<0.055	<0.005	0.0230	477	< 20
	12/07/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.102	<0.136	<0.207	<0.0857	<0.114	<0.0918	<0.102	<0.0616	<0.110	<0.138	<0.108	<0.0684	<0.0612	<0.0918	<0.153	<0.123	<0.149	<0.102	NM	NM	NM	271	<20
	03/29/06	<0.140	0.126	<0.176	<0.298	<0.298	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	93.2	<18
	06/09/06	<0.305	<0.388	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0600	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	65.1	68 I
	09/24/06	<0.305	<0.388	<0.257	<0.433	<0.433	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0600	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	33.0	38.0 I
	12/08/06	<0.305	<0.388	<0.257	<0.433	<0.433	<0.336	0.890 I	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0600	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	94.9	55 I
CEF-46-26I	12/20/00	1300	76	41	310	1729	NM	<1.1	NM	NM	<1.1	<1.1	<1.1	<1.1	<1.1	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.6	<0.4	<1.0	NM	<530
	01/25/01	2400	270	100	820	3590	<5.0	<1.0	NM	NM	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60	<0.40	<1.0	NM	890
	03/14/03	866	23.3	5.4	199	1094	15.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.100	0.35	<0.100	NM	628
	06/05/03	846	30	<10.0	314	1189	21	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	NM	598
	09/03/03	902	24	<10.0	347	1273	17.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.300	<0.10	<0.100	NM	488
	12/11/03	693	16.5	7.9	198	915	19.4	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.300	<0.30	<0.100	NM	954
	03/16/04	870	8.3	6.3 ?	162	1046.6	20.3	<2.20	<2.20	<2.20	<5.49	<2.20	<2.20	<5.49	<1.10	<1.10	<5.49	<0.220	<2.20	<0.220	<0.549	<0.220	<0.220	<0.220	<2.20	0.02	<0.005	0.071 ?	NM	380
	06/08/04	832	87.9	47.7	371	1338.6	25.4	0.13	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.100	<0.60	<0.100	NM	524
	09/21/04	184Y	27.7Y	7.84Y	233Y	452.54Y	141Y	<2.04Y	<2.04 J3Y	<2.04 J3Y	<5.10Y	<2.04Y	<2.04Y	<5.10Y	<1.02Y	<1.02Y	<5.10Y	<0.204Y	<2.04Y	<0.204Y	<0.510Y	<0.204Y	<0.204Y	<0.204Y	<2.04Y	<0.02 QY	<0.005Y	0.047 ?Y	NM	280Y
	12/01/04	168	16.67	6.42	128	319.09	12.05	0.56 I	<0.206	<0.216	<0.237	<0.167	<0.127	<0.111	<0.120	<0.107	<0.103	<0.152	<0.085	<0.103	<0.262	<0.168	<0.134	<0.095	<0.162	<0.018	<0.005	0.03	NM	1500
	03/13/05	5.17	2.03	0.420 I	17.6	25.22	1.83 I	0.216 I	<0.133	<0.210	<0.0840	<0.112	<0.0900	<0.0990	<0.0780	<0.108	<0.135 J3	<0.106	<0.0630	<0.0600	<0.0900	<0.154	<0.121	<0.146	<0.102	<0.0550	<0.005	0.00500 I V	NM	59 I
	06/09/05	9.21	4.68	0.570 I	42.4	56.86	2.33	<0.101	< 0.133	< 0.210	< 0.0840	< 0.112	< 0.0900	< 0.0990	< 0.0780	< 0.108	< 0.135 J3	< 0.106	< 0.0630	< 0.0600	< 0.0900	< 0.154	< 0.121	< 0.146	< 0.102	< 0.055	< 0.005	0.0460	3190	1730
	09/06/05	1.16 I	0.900 I	<0.142	13.3	15.36	<0.236	<0.100	<0.133	<0.203	<0.0840	<0.112	< 0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	<0.055	<0.005	0.0410	2300	67 I
	12/07/05	6.72	0.740 I	<0.142	11.6	18.96	0.480 I	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	1890	<18
	03/29/06	1.00	0.490 I	<0.176	9.64	11.13	1.89	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	415	390
	06/09/06	0.460 I	<0.338	<0.257	5.36	5.81	0.380 I	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	1460	107 I
	09/24/06	0.490 I	<0.338	<0.257	4.10	5.06	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	876	19 I
	12/08/06	0.730 I	<0.338	<0.257	3.98	4.68	<0.336	<0.100	<0.133	<0.203	<0.0840	<0.112	<0.0900	<0.100	<0.0800	<0.108	<0.135	<0.106	<0.0670	<0.0600	<0.0900	<0.150	<0.121	<0.146	<0.100	NM	NM	NM	1190	20 I
CEF-46-27D	12/07/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.101	<0.134	<0.206	<0.0848	<0.113	<0.0909	<0.101	<0.0606	<0.109	<0.136	<0.107	<0.0677	<0.0606	<0.0909	<0.152	<0.122	<0.147	<0.101	NM	NM	NM	2.22	<18
CEF-46-28I	12/07/05	13.8	<0.201	<0.142	1.34 I	14.94	10.6	<0.109	<0.145	<0.221	<0.0913	<0.122	<0.0978	<0.109	<0.0670	<0.117	<0.147	<0.115	<0.0736	<0.0652	<0.0978	<0.163	<0.132	<0.159	<0.109	NM	NM	NM	1308	<18
CEF-46-29I	12/07/05	19.8	<0.201	<0.142	2.46	22.26	0.350 I	<0.103	<0.137	<0.209	<0.0856	<0.115	<0.0928	<0.103	<0.0625	<0.111	<0.139	<0.109	<0.0691	<0.0619	<0.0928	<0.155	<0.125	<0.151	<0.103	NM	NM	NM	2220	<18
CEF-46-30I	12/07/05	<0.143	<0.201	<0.142	<0.220	<0.220	<0.236	<0.111	<0.148	<0.226	<0.0933	<0.124	<0.100	<0.111	<0.0689	<0.120	<0.150	<0.118	<0.0744	<0.0667	<0.100	<0.167	<0.134	<0.162	<0.111	NM	NM	NM	721	<18
CEF-46-31I	12/07/05	0.560 I	<0.201	<0.142	<0.220	0.560 I	<0.236	<0.111	<0.148	<0.226	<0.0933	<0.124	<0.100	<0.111	<0.0689	<0.120	<0.150	<0.118	<0.0744	<0.0667	<0.100	<0.167	<0.134	<0.162	<0.111	NM	NM	NM	2120	<20
Groundwater Criteria[1]		1	30	40	20	n/a	20	14	28	28	210	20	280	210	2100	280	210	0.05	4.8	0.05	0.5	0.2	0.05	0.005	210	10 *	1 *	n/a	250 *	5000
Natural Attenuation Default Source		100	300	400	200	n/a	200	140	280	280	2100	200	2800	2100	21000	2800	2100	5	480	5	50	20	5	0.5	2100	100 *	10 *	n/a	n/a	50000

All values reported in ug/L unless otherwise noted
1 = Ch 62-777 F.A.C Groundwater Cleanup Target Levels (GCTL) reported in ug/L unless otherwise noted by "*"
Concentrations exceed their respective GCTL value (yellow)
GCTL Reported in mg/L (orange)

NM = Not Measured
n/a = Not applicable
? = Rejected during data validation
"V" = the analyte was detected in both the sample and the associated method blank

L = Off-scale high, actual value is known to be greater than the value given.
I = The reported value is between the laboratory method and detection limit
J3 = The reported value failed to meet the established quality control criteria for either precision and/or accuracy
Q= Sample was represerved out of hold time due to preservative with nitric acid instead of sulfuric acid. The lab error did not impact validity of reported values
Y = Sample was received into laboratory out of acceptable temperature range.

TABLE 4
SOIL ANALYTICAL RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA

Soil Boring Number	Sample Date	Benzene	Ethyl Benzene	Toluene	Xylene	BETX	Methyl tert-butyl ether	Naphthalene	Acenaphthylene	Acenaphthene	Fluorene	Phenanthrene	Anthracene	Fluoranthene	1-Methylnaphthalene	2-Methylnaphthalene	Pyrene	Benzo (a) anthracene	Chrysene	Benzo (b) fluoranthene	Benzo (k) fluoranthene	Benzo (a) pyrene	Indeno (1, 2, 3-cd) pyrene	Dibenzo (a,h) anthracene	Benzo (g,h,i) perylene	TRPH
SB-1	01/04/01	<0.9	65	14	390	469	3.1	73	<0.18	<9.8	1.23Y	0.67	<0.18	0.179	--	--	0.039	<0.018	0.48	0.02	0.0243	0.0102	0.0063	<0.018	<0.018	9900
	06/27/01	0.61	34	9.1	110	153.71	<0.0012	1.4	<0.18	0.16	0.15	0.15	<0.18	0.051	--	--	0.012	0.022	0.19	0.012	0.013	0.0056	0.0073	<0.018	0.0049	150
	09/20/01	0.65	6.1	0.69	40	47.44	<0.15	8.8	<0.2	<0.2	<0.2	0.28	<0.2	0.11	--	--	0.019	<0.02	0.15	0.034	0.026	0.018	0.011	0.026	0.024	1500
	12/12/01	0.069	0.13	0.013	0.55	0.762	0.0084	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.02	--	--	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	19
	03/07/02	3	67	7.1	200	277.1	<1.2	23	<0.19	<0.19	<0.19	0.27	<0.19	0.057	--	--	0.0057	0.023	0.26	<0.019	<0.19	0.0053	<0.019	<0.019	<0.019	1600
	06/20/02	0.15	7.9	0.82	27	35.87	<.11	5.2	<0.18	<0.18	0.92 J	0.085 J	<0.18	0.024 J	--	--	<0.018	<0.018	0.04	<0.018	<0.018	.0035 J	.0036 J	<0.018	<0.018	180
	09/26/02	2.17	97.7	10.7	532	642.57	<1.19	21.1	<0.20	<0.20	<0.20	0.27 J	<0.20	0.054 J	--	--	0.017 J	0.032 J	<0.020	0.015 J	0.022 J	<0.020	<0.020	0.017 J	0.012 J	800
	12/13/02	0.153	4.17	0.406	27.8	32.5	<0.166	2.84	<0.68	<0.68	<0.143	<0.0436	<0.0449	0.0517	<1.02	3.02	0.0251	<0.00885	<0.0102	<0.0122	<0.0116	<0.0068	<0.0292	<0.0204	<0.0517	151
	03/15/03	<0.034	0.155	<0.034	0.794	0.949	<0.169	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	0.089	0.132	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	65.3
	06/09/03	0.1969	1.526	0.2224	3.082	5.017	<0.252	0.0805	0.00432	0.00864	0.0755	0.0502	0.0176	0.00943	0.62	0.976	0.0116	<0.00393	<0.00393	<0.00393	<0.00393	<0.00393	<0.00393	<0.00393	<0.00393	27.7
	09/04/03	0.0226	1.8	0.043	1.46	3.346	0.011	0.231	<0.0033	0.00561	0.0531	0.0182	0.00528	0.00561	0.615	0.985	0.0066	<0.0033	<0.0033	0.00462	0.00363	0.0066	0.00825	0.0033	0.00924	34.6
	12/11/03	0.486	1.11	0.572	12	14.168	0.228	2.11	<0.0033	0.0099	0.0356	0.0238	0.0191	0.0158	1.72	2.8	0.0122	<0.0033	<0.0033	0.0102	0.00725	0.0142	0.0116	<0.0033	<0.00657	154
	03/18/04	0.0021	0.0597	0.0218	0.333	0.417	<0.006	0.277	<0.00398	<0.00398	0.0131	0.0123	<0.00398	0.00796	0.322	0.704	<0.00398	<0.00398	<0.00398	<0.00398	<0.00398	<0.00398	<0.00398	<0.00398	<0.00398	12.3
	06/07/04	<0.514	<0.514	<0.514	3.2	3.200	<0.514	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	0.175	0.4	<0.150	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	<0.0998	13.2
	09/20/04	<0.256Y	<0.256Y	<0.256Y	0.273Y	0.273Y	0.418Y	<0.100Y	<0.100 Y	<0.100 JSY	<0.100 JSY	<0.100 Y	<0.100Y	<0.100Y	<0.100 JSY	<0.150 JSY	<0.150Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	9.9Y
	12/01/04	<0.0005596	<0.0005623	<0.0005623	<0.000674	<0.000674	<0.0005627	<0.07708	<0.06734	<0.07411	<0.09095	<0.05945	<0.02727	<0.02912	<0.06959	<0.07128	<0.03468 J3	<0.01810	<0.02000	<0.01776	<0.01776	<0.02057	<0.02164	<0.02196	<0.01735	85.3
	03/13/05	<0.000709	0.686	0.118 I	4.050	4.848	0.152 I	1.110	<0.0977	<0.074	<0.0654	<0.0394	<0.0532	<0.024	0.654	1.460	<0.0339	<0.0181	<0.020	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	35.0
	06/09/05	< 0.000635	< 0.000524	< 0.000676	< 0.00108	< 0.003115	< 0.000667	<0.0671	< 0.0977	< 0.074	< 0.0654	< 0.0394	< 0.0532	< 0.024	< 0.0838	< 0.0712	< 0.0339	< 0.0181	< 0.020	< 0.0176	< 0.0176	< 0.0206	< 0.0216	< 0.0219	< 0.0173	17.9
	09/07/05	<0.000575	<0.000474	<0.000793	0.00275 I	0.00275 I	<0.000604	<0.0671	<0.0977	<0.074	<0.0654	<0.0394	<0.0532	<0.024	<0.0838	<0.0712	<0.0339	<0.0181	<0.020	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	2.66 I
	12/05/05	<0.000684	0.00208 I	0.00379 I	0.00202 I	0.00789 I	<0.000928	<0.0671	<0.0977	<0.074	<0.0654	<0.0394	<0.0532	<0.024	<0.0838	0.186 I	<0.0339	<0.0181	<0.020	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	17.7
	03/29/06	<0.223	2.170	1.050	10.900 J3	14.12	<0.177	4.360	<0.0977	<0.074	<0.0654	0.0497 I	<0.0532	<0.024	1.810	3.930	<0.0339	<0.0181	<0.020	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	190
	06/09/06	<0.00212	<0.00221	<0.00227	<0.00451	<0.00451	<0.00168	<0.0671	<0.0977	<0.074	<0.0654	<0.0394	<0.0532	<0.024	<0.0838	<0.0712	<0.0339	<0.0181	<0.020	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	42.1
	09/24/06	<0.00844	0.0272 J3	0.0480	0.124 J3	0.1992	0.724 J3	<0.0671	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.0240	0.168	0.309	0.0933 I	0.0343 I	0.0437 I	0.432	0.362	0.179	0.151 I	<0.0219	0.09871	14.5
	12/06/06	<0.00995	0.0413 J3	0.0380 V J3	0.135 J3	0.2143	0.0506	<0.0671	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.0240	<0.0838	<0.0712	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	12.4
SB-2	01/04/01	7.1	120	10	610	747.1	3.8	38.5	<0.18	<0.18	0.515	0.56	<0.18	0.173	--	--	0.044	0.0425	<0.018	0.01685	0.02945	0.0215	<0.018	<0.018	0.0255	3900
	06/27/01	1.4	57	47	420	525.4	<0.0011	0.84	0.17	1	0.46	0.59	0.086	0.21	--	--	0.046	0.077	0.071	0.026	0.037	0.019	0.0072	<0.019	0.0091	1300
	09/20/01	0.51	32	6	290	328.51	<0.12	7.4	<0.2	2.1	<0.20	0.58	<0.2	0.2	--	--	0.049	0.076	0.16	0.026	<0.020	0.02	<0.020	<0.020	<0.020	430
	12/12/01	<11	99	110	620	829	<11	34	<0.2	0.12	0.38	0.23	<0.2	0.043	--	--	0.018	0.017	0.15	0.01	0.0066	0.007	<0.020	0.0081	0.015	1800
	03/07/02	1.7	38	24	430	493.7	<1	24	<0.19	<0.19	<0.19	0.47	<0.19	0.085	--	--	0.012	0.049	<0.019	0.027	0.051	0.026	0.051	<0.019	0.015	2000
	06/20/02	0.14	2.8	6	72	80.94	<.12	11	<0.17	<0.17	<0.17	0.2	0.1 J	0.065 J	--	--	0.015 J	0.028 J	0.075	0.013 J	0.018 J	0.010 J	<0.017	<0.017	<0.017	550
	09/26/02	0.746 J	9.15	22	274	305.15	<1.2	20.5	<0.19	<0.19	<0.19	0.99	<0.19	0.17 J	--	--	0.060 J	0.12 J	<0.019	0.030 J	0.042 J	0.029	0.0079 J	0.032 J	0.016 J	970
	12/13/02	<0.611	8.01	12.8	80.7	101.51	<3.06	9.98	<0.661	<0.661	<0.139	0.0582	<0.0436	<0.0139	2.13	9.78	0.0906	<0.00859	<0.00991	<0.0119	<0.0112	<0.00651	<0.0284	<0.0198	<0.0502	428
	03/15/03	1.32	43.1	31.1	322	398	<0.532	10.7	<0.066	0.078	<0.066	0.317	0.066	<0.066	7.59	12.9	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	997
	06/09/03	0.4545	11.07	0.4463	75.58	88	<0.413	11.2	0.033	0.0632	0.136	0.206	0.058	0.0333	7.06	12	0.0425	0.00953	0.0123	0.0107	0.00556	0.0111	0.0107	<0.00397	0.0115	288
	09/04/03	0.717	18.6	3.05	115	137	<0.466	10.7	0.0304	0.0544	0.108	0.141	0.0403	0.0188	5.98	9.95	0.0224	0.00825	0.00528	<0.0033	<0.0033	0.00627	<0.0033	<0.0033	0.00528	453
	12/11/03	0.0442	14.9	10.4	192	217	0.008	39.2	0.109	0.17	0.311	0.414	0.117	0.0686	21.1	39.5	0.101	0.0469	0.0221	0.0191	0.0122	0.0284	0.0158	<0.0033	0.0186	1010
	03/18/04	0.0028	1.46	0.0389	6.52	8.0217	0.015	1.1	0.0253	<0.00422	0.0611	0.0769	<0.00422	0.011	1.65	2.93	0.0143	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	<0.00422	48.2
	06/07/04	<0.467	<0.467	<0.467	8.26	8.2600	<0.467	3.32	<0.100	0.115	0.183	0.27	<0.100	<0.100	7.13	13.4	<0.150	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	657
	09/20/04	<0.280Y	4.31Y	<0.280Y	21Y	25.431Y	0.386Y	1.35Y	<0.100Y	<0.100 JSY	<0.100 JSY	<0.100Y	<0.100Y	<0.100Y	0.784 JSY	1.740 JSY	<0.150Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	155Y
	12/01/04	0.249	28.94	41.13	178.000	248.319	<0.06174	9.700	<0.06734	<0.07411	<0.09095	0.09700 I	<0.02727	<0.02912	4.163	9.567	<0.03468 J3	<0.01810	<0.020000	<0.01776	<0.01776	<0.02057	<0.02164	<0.02196	<0.01735	645
	03/13/05	<0.0594	0.306	0.888	1.600	2.994	0.981	1.080	<0.0977	<0.0740	<0.054	<0.0394	<0.0532	<0.0240	0.734	1.500	<0.0339	<0.0181	<0.020	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	28.0
	06/09/05	< 0.0660	0.104 I	<0.0909	0.951	1.055	<0.0683	0.149 I	< 0.0977	< 0.740	< 0.0654	0.04201	< 0.532	< 0.0240	0.311	0.573	< 0.0339	< 0.0181	< 0.0200	< 0.0176	< 0.0176	< 0.0206	< 0.0216	< 0.0219	< 0.0173	31.2
	09/07/05	<0.126	10.400	1.700	57.400	67.800	<0.132	6.150	<0.0977	<0.0740	0.0720 I	0.0720 I	<0.0532	<0.0240	2.720	5.850	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	357
	12/05/05	<0.0872	3.060	2.360	21.600	27.020	<0.0916	1.140	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.0240	0.410	1.160	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	87.2
	03/29/06	<0.210	2.780	3.530	16.700 J3	23.01	<0.167	2.310	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.0240	1.060	2.370	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	58.6
	06/09/06	<0.0242	5.160	<0.00259	20.500	25.660	<0.00192	9.990	<0.0977	0.0853 I	0.217	0.127 I	0.124 I	<0.0240	5.560	13.000	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	553
	09/24/06	<0.0820	0.0157 J3 I	0.0349	0.0661 J3	0.1187	1.040 J3	<0.0671	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.0240	<0.0838	<0.0712	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	4.22 I
	12/06/06	<0.00953	0.0239 J3 I	0.0276 V J3	0.299 J3	0.3495	0.0385	0.379	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.0240	0.391	0.755	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	24.9
SB-14	01/04/01	<0.001	<0.001	0.011	0.0077	0.0187	0.0061	0.23	<0.18	<0.18	<0.18	<0.18	<0.18	<0.018	--	--	<0.018	<0.018	0.785	0.0145	0.006	0.0115	0.0075	0.0101	0.016	43
	06/27/01	0.1	0.16	<0.0011	0.15	0.41	0.015	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	0.014	--	--	<0.019	<0.019	0.44	0.0059	0.0072	0.019	<0.019	0.023	<0.019	270
	09/20/01	0.0025	0.0025	0.002	0.0024	0.0094	<0.0012	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.020	--	--	<0.020	<0.020	0.32	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	55
	12/12/01	0.11	0.18	0.014	0.71	1.014	0.012	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.019	--	--	<0.019	<0.019	0.058	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	65
	03/07/02	0.054	0.045	<0.0011	0.032	0.131	0.0021	0.56	<0.19	<0.19	<0.19	<0.19	<0.19	0.011	--	--	<0.019	<0.019	1.2	<0.019	<0.019	<0.019	<0.019	<0.019	<0.019	120
	06/20/02	<0.11	110 J	<0.11	110 J	220	<0.11	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.018	--	--	<0.018	<0.018	1.4 J	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	23
	09/26/02	<0.001	0.0288	<0.001	0.0321	0.0609	0.00266	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	0.011 J	--	--	0.0099 J	<0.019	0.38 J	0.03	0.016 J	0.062 J	<0.019	0.059 J	<0.019	117
	12/13/02	<0.125	0.402	0.602	0.602	1.506	<0.314	<2.08	<2.08	<2.08	<0.439	<1.34	<1.38	<0.439	<3.14	<3.14	<0.565	<0.271	<0.314	<0.376	<0.355	<0.208	<0.898	<0.627	<1.59	192
	03/15/03	0.138	0.823	0.087	0.966	2.01	<0.140	0.185	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	0.228	0.429	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	51.2
	06/09/03	0.0099	0.1241	0.02	0.1563	0.31	0.006	6.2	0.0334	0.0645	0.137	0.154	0.0523	0.0556	6.15	10.8	0.0489	0.0277	0.0265	0.0319	0.0242	0.0292	0.0293	0.013	0.0299	413
	09/04/03	0.0046	0.0045	0.0061	0.0083	0.0235	<0.005	0.553	<0.0033	<0.0033	0.00627	0.00594	<0.0033	<0.0033	0.353	0.543	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.00527	54.5
	12/11/03	0.0147	0.0016	0.0011	0.0055	0.0229	<0.005	1.01	0.0155	<0.0033	0.00691	0.00759	0.0132	0.0287	0.49	0.785	0.0337	0.0234	0.0191	0.0241	0.0241	0.0419	0.0333	0.0162	0.0376	126
	03/18/04	0.0012	0.0063	0.0019	0.0027	0.0121	<0.006	0.0085	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.00628	0.0144	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	<0.0037	0.0103	20.7
	06/07/04	<0.455	<0.455	<0.455	<0.455	<0.455	<0.455	1.67	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	0.368	0.69	<0.150	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	116
	09/20/04	<0.450Y	<0.450Y	<0.450Y	<0.450Y	<0.450Y	0.812Y	15.1Y	<0.100Y	0.328 JSY	0.433 JSY	0.905Y	0.940 IY	0.103Y	8.580 JSY	16.900 JSY	0.215Y	<0.100Y	0.0463 IY	<0.100Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	<0.100Y	633Y
	12/01/04	<0.000707	0.07285	0.002564	0.218	0.2934	< 0.0006913	0.5073	<0.06734	<0.07411	<0.09095	<0.05945	<0.02727	<0.02912	0.3703	0.829	<0.03468	<0.01810	<0.02000	<0.01776	<0.01776	<0.02057	<0.02164	<0.02196	<0.01735	19.2
	03/13/05	<0.0547	0.336	0.601	1.280	2.2170	<0.0534	0.245	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.024	0.115 I	0.246	<0.0339	<0.0181	<0.020	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	26.8
	06/09/05	< 0.000604	< 0.000498	< 0.000833	< 0.00103	< 0.002965	<0.0683	0.224	< 0.0977	< 0.740	< 0.0654	0.04201	< 0.532	< 0.0240	0.1051	0.0733 I	< 0.0339	< 0.0181	< 0.0200	< 0.0176	< 0.0176	< 0.0206	< 0.0216	< 0.0219	< 0.0173	18.2
	09/07/05	<0.0905	6.390	1.990	38.400	46.78	<0.0950	3.990	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.0240	1.390	3.240	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	238
	12/05/05	<0.0872	0.876	1.540	5.140	7.556	<0.0765	0.135 I	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.0240	<0.0838	<0.0712	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	9.51
	03/29/06	2.28 I	0.0255 J4	<0.00229 J4	0.0206 J3	2.3261	<0.00170	<0.0671	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.0240	<0.0838	<0.0712	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	18.6
	06/09/06	<0.00232	<0.00242	<0.00248	0.0174	0.0174	<0.00184	0.663	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.0240	0.297	0.192	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	246
	09/24/06	<0.00862	0.258 J3	0.143	1.740 J3	2.141	1.420 J3	0.374	<0.0977	<0.0740	<0.0654	<0.0394	<0.0532	<0.0240	0.443	0.908	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	16.3
	12/06/06	0.0300 I	5.200 J3	2.690 VJ3	29.00	36.92	0.0565	1.970	<0.0977	<0.0740	<0.0654	0.0437 I	<0.0532	<0.0240	0.910	2.220	<0.0339	<0.0181	<0.0200	<0.0176	<0.0176	<0.0206	<0.0216	<0.0219	<0.0173	91.1
Direct Exposure Residential[1]		1.2	1500	7500	130	n/a	4400	55	1800	2400	2600	2200	21000	3200	200	210	2400	1.4	140	1.4	15	0.1	1.5	0.1	2500	460
Leachability from GW Criteria[1]		0.007	0.5	0.5	0.2	n/a	0.09	1.2	27	2.1	160	250	2500	1200	3.1	8.5	880	0.8	77	2.4	24	8	6.5	0.7	32000	340

Y = The sample was received into laboratory out of acceptable temperature range.
I = The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
J = Estimated value
J3 = The reported value failed to meet the established quality control criteria for either precision and/or accuracy.
All values reported in mg/kg
1 = Ch 62-777 F.A.C Soil Cleanup Target Levels (SCTL) reported in mg/kg
Highlighted values indicate compounds that exceed the SCTL or the Leachability Criteria

TABLE 5
FLAME IONIZATION DETECTOR RESULTS

BUILDING 46 NUTRIENT INJECTION SYSTEM
NAS CECIL FIELD
JACKSONVILLE, FLORIDA
DECEMBER 2006

	Unfiltered	Filtered	Net
SB-1			
4 feet	0 ppm	0 ppm	0 ppm
6 feet	0 ppm	0 ppm	0 ppm
8 feet*	180 ppm	0 ppm	180 ppm
10 feet	150 ppm	0 ppm	150 ppm
SB-2			
4 feet	140 ppm	20 ppm	120 ppm
6 feet	0 ppm	0 ppm	0 ppm
8 feet	200 ppm	0 ppm	200 ppm
10 feet*	1600 ppm	100 ppm	1500 ppm
SB-14			
4 feet	20 ppm	10 ppm	10 ppm
6 feet	1100 ppm	100 ppm	1000 ppm
8 feet*	5000 ppm	200 ppm	4800 ppm
10 feet	1600 ppm	100 ppm	1500 ppm

ppm = parts per million
* Sample submitted to laboratory for analysis

APPENDIX D

December 2006 Groundwater Sampling Logs

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Robert Brookshire	Technician 2:	Weather: ", Cold"
Sampling ID: 04-41001/3:CEF-46-1S:12/9/06		
Notes: Purged according to FS 2212 Section 3.4 and FS 2222		

Well Information

Well ID: **CEF-46-1S**	Sampling Date: **12/9/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 15.00	Well Screen Interval (ft): 4-14
TOC Elevation (ft amsl): 79.08	Northing: 2143916.75	Easting: 375278.32
Static Depth to Water (ft): 12.52	Well Capacity (gal): 0.40	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 14.50
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 07:34:11	Purge End: 07:47:34	Total Volume Purged (gal): 0.10	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
07:41:48	13.59	0.10	0.017	0.64	20.60	9,830.0	3.00	23.1	243.00		milky	

Sampling Data

Sample Information

Sample Date:	12/9/2006
Sample Start Time:	07:47:34
Sample End Time:	09:33:25
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	0.59
Temp (°C):	22.01
SEC (uS/cm):	10302
pH:	3.29
ORP (mV):	5.1
Turb (NTU):	217
Salinity:	

Hach Field Data (mg/L)

DO:	0
CO2:	426
Alkalinity:	0
Ferrous Iron:	4.4
H2S:	5.0
Manganese:	
Sulfate:	
Sulfide:	
Nitrate:	

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

", BTEX/MTBE, PAHs, Sulfate, TRPH"

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Larry Wolski	Technician 2:	Weather: Cool
Sampling ID: 04-41001/3:CEF-46-2S:12/8/06		
Notes:		

Well Information

Well ID: **CEF-46-2S**	Sampling Date: **12/8/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 15.00	Well Screen Interval (ft): 4-14
TOC Elevation (ft amsl): 79.08	Northing: 2143967.22	Easting: 375303.76
Static Depth to Water (ft): 12.32	Well Capacity (gal): 0.43	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 12.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556 MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 15:11:19	Purge End: 15:38:27	Total Volume Purged (gal): 0.50	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
15:28:41	12.47	0.30	0.017	0.87	23.83	1,225.0	6.01	7.6	4.16		clear	none
15:32:37	12.48	0.40	0.025	0.66	23.93	1,230.0	6.02	-2.0	3.63			
15:37:16	12.46	0.50	0.021	0.59	23.78	1,232.0	6.02	-9.3	3.15			

Sampling Data

Sample Information		Final Purge Readings		Hach Field Data (mg/L)		CHEMetrics Field Data (mg/L)
Sample Date:	12/8/2006	DO (mg/L):	0.73	DO:	0	DO High Range:
Sample Start Time:	15:38:27	Temp (°C):	23.77	CO2:	162	DO High Range:
Sample End Time:	16:14:22	SEC (uS/cm):	1232	Alkalinity:	50	
Field Filtered:	☐	pH:	6.02	Ferrous Iron:	2.4	CO2 High Range:
Duplicate:	☐	ORP (mV):	-9.5	H2S:	2.0	CO2 Low Range:
		Turb (NTU):	3.13	Manganese:		
		Salinity:		Sulfate:		Alkalinity High Range:
				Sulfide:		Alkalinity Low Range:
				Nitrate:		
Lab Analyses/Methods:		Technician Initials				
"PAHs, Sulfate, TRPH, VOCs"						

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Larry Wolski	Technician 2:	Weather: Cool
Sampling ID: 04-41001/3:CEF-46-5I:12/9/06		
Notes:		

Well Information

Well ID: **CEF-46-5I**	Sampling Date: **12/9/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 50.50	Well Screen Interval (ft): 45-50
TOC Elevation (ft amsl): 79.18	Northing: 2143911.96	Easting: 375278.45
Static Depth to Water (ft): 14.82	Well Capacity (gal): 5.82	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 47.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 07:30:56	Purge End: 07:56:47	Total Volume Purged (gal): 0.65	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
07:45:56	15.24	0.30	0.020	1.26	21.45	12,494.0	2.66	353.4	137.00		turbid	none
07:50:12	15.25	0.40	0.023	1.20	21.65	12,542.0	2.67	353.4	127.00			
07:54:55	15.05	0.50	0.021	1.50	21.72	12,557.0	2.66	353.3	125.00			

Sampling Data

Sample Information		Final Purge Readings		Hach Field Data (mg/L)		CHEMetrics Field Data (mg/L)
Sample Date:	12/9/2006	DO (mg/L):	1.61	DO:	0	DO High Range:
Sample Start Time:	07:56:47	Temp (°C):	21.20	CO2:	Interferen	DO High Range:
Sample End Time:	08:40:27	SEC (uS/cm):	12471	Alkalinity:	0	
Field Filtered:	☐	pH:	2.66	Ferrous Iron:	5	CO2 High Range:
Duplicate:	☐	ORP (mV):	353.3	H2S:	1.0	CO2 Low Range:
		Turb (NTU):	125	Manganese:		
		Salinity:		Sulfate:		Alkalinity High Range:
				Sulfide:		Alkalinity Low Range:
				Nitrate:		

Lab Analyses/Methods:	Technician Initials
"PAHs, Sulfate, TRPH, VOCs"	

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Danny Hockett	Technician 2:	Weather: Cold
Sampling ID: 04-41001/3:CEF-46-6D:12/9/06		
Notes: Large bubbles from well water. System impacting well eventhough system off. CO2 - Interference		

Well Information

Well ID: **CEF-46-6D**	Sampling Date: **12/9/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 80.50	Well Screen Interval (ft): 70-80
TOC Elevation (ft amsl): 79.17	Northing: 2143906.99	Easting: 375278.07
Static Depth to Water (ft): 16.90	Well Capacity (gal): 10.37	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 75.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 07:24:40	Purge End: 07:58:15	Total Volume Purged (gal): 0.70	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
07:43:37	16.70	0.40	0.021	5.44	19.57	9,598.0	2.43	344.5	86.00		turbid	none
07:47:56	16.76	0.50	0.023	5.02	19.51	9,584.0	2.42	344.6	86.20			
07:51:43	16.70	0.60	0.026	4.82	19.39	9,569.0	2.42	344.6	86.90			

Sampling Data

Sample Information		Final Purge Readings		Hach Field Data (mg/L)		CHEMetrics Field Data (mg/L)
Sample Date:	12/9/2006	DO (mg/L):	4.80	DO:	3.2	DO High Range:
Sample Start Time:	07:58:15	Temp (°C):	19.58	CO2:	0	DO High Range:
Sample End Time:	08:18:19	SEC (uS/cm):	9589	Alkalinity:	0	
Field Filtered:	☐	pH:	2.42	Ferrous Iron:	4.4	CO2 High Range:
Duplicate:	☐	ORP (mV):	344.6	H2S:	0.0	CO2 Low Range:
		Turb (NTU):	89.0	Manganese:		
		Salinity:		Sulfate:		Alkalinity High Range:
				Sulfide:		Alkalinity Low Range:
				Nitrate:		

Lab Analyses/Methods:

"BTEX/MTBE, PAHs, Sulfate, TRPH"

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Danny Hockett	Technician 2:	Weather: "Cool, Windy"
Sampling ID: 04-41001/3:CEF-46-7I:12/8/06		
Notes: Air bubbles up tubing. new tubing. Air from well water. system turned off at 7:30 am on 12-8-07		

Well Information

Well ID: **CEF-46-7I**	Sampling Date: **12/8/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 30.50	Well Screen Interval (ft): 25-30
TOC Elevation (ft amsl): 79.02	Northing: 2143997.08	Easting: 375315.68
Static Depth to Water (ft): 10.35	Well Capacity (gal): 3.28	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 27.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 15:40:36	Purge End: 16:26:40	Total Volume Purged (gal): 0.90	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
16:04:31	9.91	0.40	0.016	2.80	22.37	458.0	3.47	468.0	6.05			
16:08:42	9.71	0.50	0.023	2.55	22.15	473.0	3.09	474.9	5.78			
16:12:16	9.62	0.60	0.028	2.42	23.06	481.0	3.26	468.2	5.45			
16:16:24	9.63	0.70	0.024	2.41	23.36	484.0	3.30	468.5	5.28			
16:20:28	9.58	0.80	0.024	2.37	23.43	485.0	3.36	467.8	10.60			
16:24:37	9.59	0.90	0.024	2.31	23.41	485.0	3.26	468.5	10.00			

Sampling Data

Sample Information		Final Purge Readings		Hach Field Data (mg/L)		CHEMetrics Field Data (mg/L)
Sample Date:	12/8/2006	DO (mg/L):	2.30	DO:	4.2	DO High Range:
Sample Start Time:	16:26:40	Temp (°C):	23.41	CO2:	181	DO High Range:
Sample End Time:	16:45:57	SEC (uS/cm):	485	Alkalinity:	0	
Field Filtered:	☐	pH:	3.39	Ferrous Iron:	0.1	CO2 High Range:
Duplicate:	☐	ORP (mV):	468.2	H2S:	0.0	CO2 Low Range:
		Turb (NTU):	9.79	Manganese:		
		Salinity:		Sulfate:		Alkalinity High Range:
				Sulfide:		Alkalinity Low Range:
				Nitrate:		

Lab Analyses/Methods:	Technician Initials
"BTEX/MTBE, PAHs, Sulfate, TRPH"	

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Robert Brookshire	Technician 2:	Weather: ", Beautiful Day, Cold"
Sampling ID: 04-41001/3:CEF-46-9I:12/8/06		
Notes:		

Well Information

Well ID: **CEF-46-9I**	Sampling Date: **12/8/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 50.50	Well Screen Interval (ft): 45-50
TOC Elevation (ft amsl): 79.05	Northing: 2143958.42	Easting: 375470.18
Static Depth to Water (ft): 12.90	Well Capacity (gal): 6.13	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 47.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 15:16:46	Purge End: 15:50:04	Total Volume Purged (gal): 0.90	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
15:36:22	12.92	0.50	0.025	0.48	24.20	466.0	3.81	-20.2	1.50		clear	
15:40:20	12.93	0.60	0.025	0.42	24.23	466.0	3.82	-27.4	1.01		clear	
15:44:36	12.93	0.70	0.023	0.39	24.27	484.0	3.83	-38.5	2.52		clear	

Sampling Data

Sample Information		Final Purge Readings		Hach Field Data (mg/L)		CHEMetrics Field Data (mg/L)
Sample Date:	12/8/2006	DO (mg/L):	0.38	DO:	0	DO High Range:
Sample Start Time:	15:50:04	Temp (°C):	24.24	CO2:	Interferen	DO High Range:
Sample End Time:	16:39:11	SEC (uS/cm):	493	Alkalinity:	0	
Field Filtered:	☐	pH:	3.81	Ferrous Iron:	0	CO2 High Range:
Duplicate:	☐	ORP (mV):	-43.6	H2S:	2.0	CO2 Low Range:
		Turb (NTU):	3.38	Manganese:		
		Salinity:		Sulfate:		Alkalinity High Range:
				Sulfide:		Alkalinity Low Range:
Lab Analyses/Methods:		Technician Initials		Nitrate:		
", BTEX/MTBE, PAHs, Sulfate, TRPH"						

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Larry Wolski	Technician 2:	Weather: Windy
Sampling ID: 04-41001/3:CEF-46-12I:12/8/06		
Notes:		

Well Information

Well ID: **CEF-46-12I**	Sampling Date: **12/8/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 30.50	Well Screen Interval (ft): 25-30
TOC Elevation (ft amsl): 78.73	Northing: 2144067.28	Easting: 375469.94
Static Depth to Water (ft): 12.00	Well Capacity (gal): 3.01	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 27.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 13:20:37	Purge End: 13:44:25	Total Volume Purged (gal): 0.55	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
13:35:59	12.12	0.30	0.019	0.95	23.31	242.0	4.34	269.0	11.20		clear	none
13:39:48	12.07	0.40	0.026	1.12	23.56	236.0	4.39	266.4	9.09			
13:43:13	12.09	0.50	0.029	1.08	23.71	236.0	4.39	266.9	6.57			

Sampling Data

Sample Information

Sample Date:	12/8/2006
Sample Start Time:	13:44:25
Sample End Time:	14:05:18
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	1.04
Temp (°C):	23.65
SEC (uS/cm):	236
pH:	4.39
ORP (mV):	266.5
Turb (NTU):	6.20
Salinity:	

Hach Field Data (mg/L)

DO:	0
CO2:	296
Alkalinity:	0
Ferrous Iron:	4.5
H2S:	0.1
Manganese:	
Sulfate:	
Sulfide:	
Nitrate:	

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

"PAHs, Sulfate, TRPH, VOCs"

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Larry Wolski	Technician 2:	Weather: Windy
Sampling ID: 04-41001/3:CEF-46-13I:12/8/06		
Notes:		

Well Information

Well ID: **CEF-46-13I**	Sampling Date: **12/8/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 50.50	Well Screen Interval (ft): 45-50
TOC Elevation (ft amsl): 78.87	Northing: 2144061.03	Easting: 375470.06
Static Depth to Water (ft): 12.32	Well Capacity (gal): 6.23	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 43.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 14:15:05	Purge End: 14:34:30	Total Volume Purged (gal): 0.55	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
14:25:58	12.34	0.30	0.027	1.75	23.38	151.0	4.04	138.3	2.79		clear	none
14:29:35	12.34	0.40	0.027	1.26	23.05	149.0	4.07	128.9	1.21			
14:32:37	12.34	0.50	0.033	1.17	23.01	147.0	4.08	123.2	1.03			

Sampling Data

Sample Information		Final Purge Readings		Hach Field Data (mg/L)		CHEMetrics Field Data (mg/L)
Sample Date:	12/8/2006	DO (mg/L):	1.03	DO:	0	DO High Range:
Sample Start Time:	14:34:30	Temp (°C):	23.00	CO2:	242	DO High Range:
Sample End Time:	14:59:19	SEC (uS/cm):	146	Alkalinity:	0	
Field Filtered:	☐	pH:	4.07	Ferrous Iron:	3.5	CO2 High Range:
Duplicate:	☐	ORP (mV):	121.6	H2S:	2.0	CO2 Low Range:
		Turb (NTU):	0.97	Manganese:		
		Salinity:		Sulfate:		Alkalinity High Range:
				Sulfide:		Alkalinity Low Range:
				Nitrate:		

Lab Analyses/Methods:	Technician Initials
"PAHs, Sulfate, TRPH, VOCs"	

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Robert Brookshire	Technician 2:	Weather: ", Beautiful Day, Cold"
Sampling ID: 04-41001/3:CEF-46-14D:12/8/06		
Notes: CO2 - Interference		

Well Information

Well ID: **CEF-46-14D**	Sampling Date: **12/8/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 80.00	Well Screen Interval (ft): 70-80
TOC Elevation (ft amsl): 78.88	Northing: 2144054.45	Easting: 375470.04
Static Depth to Water (ft): 13.74	Well Capacity (gal): 10.81	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 75.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 14:15:59	Purge End: 14:45:27	Total Volume Purged (gal): 0.80	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
14:34:00	12.97	0.40	0.022	0.43	23.34	105.0	5.45	-101.5	2.27		clear	
14:37:57	12.98	0.50	0.025	0.38	23.29	105.0	5.45	-106.3	2.57		clear	
14:42:24	12.92	0.70	0.044	0.37	23.16	104.0	5.45	-110.7	2.12		clear	

Sampling Data

Sample Information		Final Purge Readings		Hach Field Data (mg/L)		CHEMetrics Field Data (mg/L)
Sample Date:	12/8/2006	DO (mg/L):	0.38	DO:	0	DO High Range:
Sample Start Time:	14:45:27	Temp (°C):	23.46	CO2:	0	DO High Range:
Sample End Time:	15:10:42	SEC (uS/cm):	103	Alkalinity:	45	
Field Filtered:	☐	pH:	5.45	Ferrous Iron:	1	CO2 High Range:
Duplicate:	☐	ORP (mV):	-109.4	H2S:	0.7	CO2 Low Range:
		Turb (NTU):	1.83	Manganese:		
		Salinity:		Sulfate:		
				Sulfide:		Alkalinity High Range:
				Nitrate:		Alkalinity Low Range:

Lab Analyses/Methods:

", BTEX/MTBE, PAHs, Sulfate, TRPH"

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Robert Brookshire	Technician 2:	Weather: ", Beautiful Day, Cold"
Sampling ID: 04-41001/3:CEF-46-15I:12/8/06		
Notes:		

Well Information

Well ID: **CEF-46-15I**	Sampling Date: **12/8/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 30.50	Well Screen Interval (ft): 25-30
TOC Elevation (ft amsl): 79.75	Northing: 0	Easting: 0
Static Depth to Water (ft): 12.85	Well Capacity (gal): 2.88	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 28.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 13:14:43	Purge End: 13:45:09	Total Volume Purged (gal): 0.80	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
13:28:09	12.97	0.30	0.022	0.87	20.45	147.0	4.84	17.2	5.21		clear	
13:34:01	12.94	0.50	0.034	0.58	20.53	143.0	4.67	2.9	4.00		clear	
13:38:22	12.94	0.60	0.023	0.55	20.66	147.0	4.58	-0.1	5.09		clear	

Sampling Data

Sample Information

Sample Date:	12/8/2006
Sample Start Time:	13:45:09
Sample End Time:	14:07:53
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	0.54
Temp (°C):	20.88
SEC (uS/cm):	150
pH:	4.54
ORP (mV):	-2
Turb (NTU):	4.21
Salinity:	

Hach Field Data (mg/L)

DO:	0
CO2:	296
Alkalinity:	0
Ferrous Iron:	2.2
H2S:	0.1
Manganese:	
Sulfate:	
Sulfide:	
Nitrate:	

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

", BTEX/MTBE, PAHs, Sulfate, TRPH"

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Danny Hockett	Technician 2:	Weather: "Cold, Windy"
Sampling ID: 04-41001/3:CEF-46-21I:12/8/06		
Notes:		

Well Information

Well ID: **CEF-46-21I**	Sampling Date: **12/8/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 30.50	Well Screen Interval (ft): 25-30
TOC Elevation (ft amsl): 79.31	Northing: 2143935.49	Easting: 375041.5
Static Depth to Water (ft): 13.81	Well Capacity (gal): 2.72	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 0.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 14:35:53	Purge End: 15:00:24	Total Volume Purged (gal): 0.60	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
14:51:01	13.83	0.30	0.019	0.95	19.73	125.0	3.97	284.6	2.75		clear	none
14:54:58	13.83	0.40	0.025	0.71	19.89	123.0	4.00	283.5	1.93			
14:58:47	13.83	0.50	0.026	0.62	20.01	121.0	4.00	284.2	2.14			

Sampling Data

Sample Information

Sample Date:	12/8/2006
Sample Start Time:	15:00:24
Sample End Time:	15:19:26
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	0.57
Temp (°C):	20.08
SEC (uS/cm):	121
pH:	3.99
ORP (mV):	284.1
Turb (NTU):	2.14
Salinity:	

Hach Field Data (mg/L)

DO:	0
CO2:	140
Alkalinity:	5
Ferrous Iron:	1.8
H2S:	0.1
Manganese:	
Sulfate:	
Sulfide:	
Nitrate:	

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

"BTEX/MTBE, PAHs, Sulfate, TRPH"

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Danny Hockett	Technician 2:	Weather: "Cool, Windy"
Sampling ID: 04-41001/3:CEF-46-24D:12/8/06		
Notes:		

Well Information

Well ID: **CEF-46-24D**	Sampling Date: **12/8/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 90.45	Well Screen Interval (ft):
TOC Elevation (ft amsl): 78.74	Northing: 0	Easting: 0
Static Depth to Water (ft): 13.69	Well Capacity (gal): 12.52	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 0.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 13:29:36	Purge End: 13:58:01	Total Volume Purged (gal): 0.50	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
13:45:44	13.75	0.30	0.018	0.57	21.04	1,796.0	3.29	317.5	6.69		clear	none
13:50:14	13.73	0.40	0.022	0.53	21.16	1,714.0	3.42	291.8	6.50			
13:54:49	13.73	0.50	0.021	0.47	21.11	1,707.0	3.46	283.6	7.02			

Sampling Data

Sample Information

Sample Date:	12/8/2006
Sample Start Time:	13:58:01
Sample End Time:	14:17:38
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	0.43
Temp (°C):	21.23
SEC (uS/cm):	1664
pH:	3.48
ORP (mV):	265.9
Turb (NTU):	7.07
Salinity:	

Hach Field Data (mg/L)

DO:	0
CO2:	0
Alkalinity:	0
Ferrous Iron:	3.1
H2S:	0.1
Manganese:	
Sulfate:	
Sulfide:	
Nitrate:	

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

"BTEX/MTBE, PAHs, Sulfate, TRPH"

Technician Initials

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Danny Hockett	Technician 2:	Weather: Cold
Sampling ID: 04-41001/3:CEF-46-25I:12/9/06		
Notes:		

Well Information

Well ID: **CEF-46-25I**	Sampling Date: **12/9/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 50.45	Well Screen Interval (ft):
TOC Elevation (ft amsl): 79.17	Northing: 0	Easting: 0
Static Depth to Water (ft): 13.89	Well Capacity (gal): 5.96	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 0.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach 2100P
Purge Start: 08:39:04	Purge End: 09:20:26	Total Volume Purged (gal): 0.90	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
08:54:52	13.91	0.30	0.018	1.58	18.53	475.0	3.14	211.6	8.04		clear	none
08:58:37	13.91	0.40	0.026	1.07	19.04	343.0	3.50	149.8	5.71			
09:02:50	13.91	0.50	0.023	0.88	19.24	315.0	3.63	119.1	4.52			
09:07:13	13.91	0.60	0.022	0.76	19.65	297.0	3.79	99.9	3.86			
09:11:16	13.91	0.70	0.024	0.70	19.93	296.0	3.80	93.0	5.87			
09:15:54	13.91	0.80	0.021	0.65	20.08	296.0	3.84	77.4	3.92			
09:19:49	13.91	0.90	0.025	0.64	20.17	298.0	3.85	76.3	4.33			

Sampling Data

Sample Information		Final Purge Readings		Hach Field Data (mg/L)		CHEMetrics Field Data (mg/L)
Sample Date:	12/9/2006	DO (mg/L):	0.84	DO:	0	DO High Range:
Sample Start Time:	09:20:26	Temp (°C):	20.23	CO2:	Interferen	DO High Range:
Sample End Time:	09:36:19	SEC (uS/cm):	299	Alkalinity:	0	
Field Filtered:	☐	pH:	3.85	Ferrous Iron:	3.4	CO2 High Range:
Duplicate:	☐	ORP (mV):	75.9	H2S:	5.0	CO2 Low Range:
		Turb (NTU):	4.87	Manganese:		
		Salinity:		Sulfate:		Alkalinity High Range:
				Sulfide:		Alkalinity Low Range:
Lab Analyses/Methods:		Technician Initials		Nitrate:		
"BTEX/MTBE, PAHs, Sulfate, TRPH"						

GROUNDWATER PURGING & SAMPLING LOG

TERRAINE
Environmental Consulting

Project Information

Project No: 04-41001/3	Project Name: Building 46 - Cecil Field LTM/RAO	
Technician 1: Larry Wolski	Technician 2:	Weather: "Cool, Windy"
Sampling ID: 04-41001/3:CEF-46-26I:12/8/06		
Notes:		

Well Information

Well ID: **CEF-46-26I**	Sampling Date: **12/8/2006**	
Well Diam (in): 2.0	Total Well Depth (ft): 47.76	Well Screen Interval (ft):
TOC Elevation (ft amsl): 79.43	Northing: 0	Easting: 0
Static Depth to Water (ft): 14.54	Well Capacity (gal): 5.42	

Purge Setup

Purge Method: Peristaltic	Tubing Material: PPE		Pump Set at (ft): 0.00
pH Meter: YSI 556 MPS	Cond. Meter: YSI 556MPS	DO Meter: YSI 556 MPS	Turb. Meter: Hach Portable Tu
Purge Start: 16:25:46	Purge End: 16:49:32	Total Volume Purged (gal): 0.65	

Purging Data

Time	Water Level (ft)	Vol Purged (gal)	Pump Rate (gal/min)	DO (mg/L)	Temp (°C)	SEC (µS/cm)	pH	ORP (mV)	Turbidity (NTU)	Salinity	Color	Odor
16:40:53	14.54	0.40	0.026	1.53	20.49	1,677.0	3.26	114.6	9.81		clear	sulfuric
16:44:39	14.56	0.50	0.026	0.88	20.65	1,678.0	3.24	107.4	8.51			
16:48:21	14.59	0.60	0.027	0.66	20.83	1,684.0	3.24	101.0	6.46			

Sampling Data

Sample Information

Sample Date:	12/8/2006
Sample Start Time:	16:49:32
Sample End Time:	17:18:24
Field Filtered:	☐
Duplicate:	☐

Final Purge Readings

DO (mg/L):	0.69
Temp (°C):	20.74
SEC (uS/cm):	1682
pH:	3.24
ORP (mV):	100.6
Turb (NTU):	5.90
Salinity:	

Hach Field Data (mg/L)

DO:	0
CO2:	Interferen
Alkalinity:	0
Ferrous Iron:	4.5
H2S:	5.0
Manganese:	
Sulfate:	
Sulfide:	
Nitrate:	

CHEMetrics Field Data (mg/L)

DO High Range:
DO High Range:

CO2 High Range:
CO2 Low Range:

Alkalinity High Range:
Alkalinity Low Range:

Lab Analyses/Methods:

"PAHs, Sulfate, TRPH, VOCs"

Technician Initials

APPENDIX E

Active Remediation Status Report Summary

Active Remediation
Annual Status Report Summary

DEP Form # 62-780.900(5)
Form Title: Active Remediation Annual Status Report Summary
Effective Date:

Site Name Building 46 **FDEP Facility ID No.** _____
Location NAS Cecil Field, Jacksonville, FL **Applicable Dates** 1 /1 / 06 **to** 12/31/06
RAP Approval Date / / **System Startup Date** 1 /18/01
Media Contaminated: ☒ **Groundwater** ☒ **Soil**

Method of Groundwater Remediation:

☐ Pump-and-Treat
- Design Flow Rate _____ (gpm)
- Actual Flow Rate _____ (gpm)
- Total Vol. Recovered to Date _____ (1000 gal)

☐ In Situ Air Sparging
- Design Air Flow Rate _____ (cfm)
- Actual Air Flow Rate _____ (cfm)
- Estimated Radius of Influence _____ (ft)

☐ Biosparging
- Design Flow Rate _____ (gpm)
- Actual Flow Rate _____ (gpm)

☐ Bioremediation

☒ Other former nut. inj. now air only

Estimated Total Mass Recovered or Remediated This Period: _____ (lbs)
- Mass Removed by Pump-and-Treat _____ (lbs)
- Mass Removed by VES and/or AS _____ (lbs)
- Mass Removed by FP Recovery _____ (lbs)
- Other Estimated Mass Removed _____ (lbs) (specify method: _____)

Concentration of Total VOAs in Designated Wells at End of:

	This Period	Previous Period
MW-1S	398 ppb	2862 ppb
MW-2S	7.68 ppb	4.47 ppb
MW-7I	372 ppb	3303 ppb
MW-26I	4.69 ppb	19.44 ppb

Method of Soil Remediation:

☐ Vapor Extraction System (VES)
- Design Air Flow Rate _____ (cfm)
- Actual Air Flow Rate _____ (cfm)
- Estimated Radius of Influence _____ (ft)
- Air Emissions Treatment
  - ☐ Discontinued / date / / ☐ Ongoing

☐ Soil Bioventing
- Design Air Flow Rate _____ (cfm)
- Actual Air Flow Rate _____ (cfm)

☐ In Situ Bioremediation

☐ Other _____

Free Product Present: ☐ Yes ☒ No
- Volume Recovered to Date _____ (gal)

Estimated Time of Cleanup for Active Remediation: 1856 (days)
- Estimated time of cleanup based on target level concentration C and on the exponential decay equation, $C_1 = C_0 e^{xt_1}$, where C_1 = present concentration at the most contaminated source well (ppb); C_0 = highest initial concentration of applicable chemical of concern at system startup (ppb); x = decay coefficient; and t_1 = length of time between initial and present concentration (days). A semi-log plot for cleanup times should be provided.

Cleanup Time Predicted in RAP: ____ (days) [explain below, difference between RAP and calculated]

O & M Problems: ☐ Yes ☐ No (if yes, provide explanation below)
- No. of scheduled O & M visits 12
- Down-time 28 (days)
- No. of unscheduled O & M visits _____

Description of O & M Problems: No O&M problems encountered. Down-time is a result of scheduled O&M visits and quarterly sampling activities.

Short Description of Effectiveness of Cleanup: Overall the trend for BTEX and MTBE appear to be decreasing since the December 2000 sampling event. With one exception, TRPH was below the GCTL in 2006.

Recommendations and Proposed Modifications: Air injections should continue along with periodic monitoring of soil and groundwater until contaminant concentrations fall below regulatory limits. Nutrient sufficiency should be evaluated. pH buffering in groundwater is strongly recommended.