N60200.AR.002522
NAS CECIL FIELD, FL
5090.3a

LETTER OF TRANSMITTAL AND DRAFT SITE ASSESSMENT REPORT FOR BP WELLS AREA BASE REALIGNMENT AND CLOSURE NAS CECIL FIELD FL
7/13/2000
TETRA TECH NUS INC

TETRA TECH NUS, INC.
661 Andersen Drive ▪ Pittsburgh, Pennsylvania 15220-2745
(412) 921-7090 ▪ FAX (412) 921-4040 ▪ www.tetratech.com

PITT-07-0-022

July 13, 2000

Project 0039

Commander
Department of the Navy
SOUTHNAVFACENGCOM
Attn: Mr. Mark Davidson
2155 Eagle Drive
North Charleston, South Carolina 29406

Reference: CLEAN Contract No. N62467-D-0888
Contract Task Order 0078

Subject: Draft Site Assessment Reports – BP Wells and North-South Apron Plume
Naval Air Station Cecil Field
Jacksonville, Florida

Dear Mr. Davidson:

Please find attached one copy of the following Draft Site Assessment Reports:

- BP Wells Site
- North-South Apron Plume

Copies have also been distributed to the Partnering Team Members as indicated below.

If you have any questions, please call Joe Logan at 412-921-7231 or me at 412-921-8916.

Sincerely,

Joseph Logan for
Mark P. Speranza, P.E.
Task Order Manager

MPS/kf

Enclosure

cc: S. Glass, SOUTHDIV (1 copy)
D. Vaughn-Wright, U.S. EPA (2 copies)
M. Deliz, FDEP (2 copies)
S. Ross, J.A. Jones (1 copy)
J. Flowe, City of Jacksonville (1 copy)
D. Wroblewski (Cover Letter Only)
Mark Perry/File

bcc: J. Johnson/Information Repository, Tetra Tech NUS, Inc. (3 copies-BRAC)
R. Simcik (Bookcase File), Tetra Tech NUS, Inc. (1 copy)
J. Logan, Tetra Tech NUS, Inc. (1 copy)
R. Miller, Tetra Tech NUS, Inc. (1 copy)
B. Davis, Tetra Tech NUS, Inc. (cover letter only)
L. Bojarski, Tetra Tech NUS, Inc. (cover letter only)

Rev. 0
08/21/00

SITE ASSESSMENT REPORT
FOR
BP WELLS AREA
BASE REALIGNMENT AND CLOSURE

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT N62467-89-D-0088

Submitted to:
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
North Charleston, South Carolina 29406

Submitted by:
Tetra Tech NUS, Inc.
661 Andersen Drive
Foster Plaza 7
Pittsburgh, Pennsylvania 15220

CONTRACT NUMBER N62467-94-D-0888
CONTRACT TASK ORDER 0078

August 2000

PREPARED UNDER THE SUPERVISION OF:

Mark P. Speranza

MARK SPERANZA, P.E.
TASK ORDER MANAGER
TETRA TECH NUS, INC.
PITTSBURGH, PENNSYLVANIA

APPROVED FOR SUBMITTAL BY:

Debbie Wroblewski

DEBBIE WROBLEWSKI
PROGRAM MANAGER
TETRA TECH NUS, INC.
PITTSBURGH, PENNSYLVANIA

The professional opinions rendered in this decision document identified as Site Assessment Report, BP Wells Area, Naval Air Station Cecil Field, Jacksonville, Florida were developed in accordance with commonly accepted procedures consistent with applicable standards of practice. Decision documents are based on information obtained from others and under the supervision of the signing engineer. If conditions are determined to exist differently than those described in this document, then the undersigned professional engineer should be notified to evaluate the effects of any additional information on the project described in this report.

Mark Speranza

Mark Speranza, P.E.
Professional Engineering No. PE0050304

Date: 8/21/00

Mark Speranza

04145

Draft
Site Assessment Report
for
BP Wells Area
Base Realignment and Closure

Naval Air Station Cecil Field
Jacksonville, Florida

Southern Division
Naval Facilities Engineering Command
Contract Number N62467-94-D-0888

Contract Task Order 0078

July 2000

TETRA TECH NUS, INC.

Rev. 0
07/10/00

DRAFT
SITE ASSESSMENT REPORT
FOR
BP WELLS AREA
BASE REALIGNMENT AND CLOSURE

NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

COMPREHENSIVE LONG-TERM
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CONTRACT TASK ORDER 0078

JULY 2000

PREPARED UNDER THE SUPERVISION OF:

MARK SPERANZA, P.E.
TASK ORDER MANAGER
TETRA TECH NUS, INC.
PITTSBURGH, PENNSYLVANIA

APPROVED FOR SUBMITTAL BY:

DEBBIE WROBLEWSKI
PROGRAM MANAGER
TETRA TECH NUS, INC.
PITTSBURGH, PENNSYLVANIA

CERTIFICATION OF TECHNICAL
DATA CONFORMITY

The Contractor, Tetra Tech NUS, Inc., hereby certifies that, to the best of its knowledge and belief, the technical data delivered herewith under Contract No. N62467-94-D-0888 are complete and accurate and comply with all requirements of this contract.

DATE: July 10, 2000

NAME AND TITLE OF CERTIFYING OFFICIAL: Mark Speranza, P.E.
Task Order Manager

The professional opinions rendered in this decision document identified as Site Assessment Report, BP Wells Area, Naval Air Station Cecil Field, Jacksonville, Florida were developed in accordance with commonly accepted procedures consistent with applicable standards of practice. Decision documents are based on information obtained from others and under the supervision of the signing engineer. If conditions are determined to exist differently than those described in this document, then the undersigned professional engineer should be notified to evaluate the effects of any additional information on the project described in this report.

_____

Mark Speranza, P.E.
Professional Engineering No. PE0050304

Date: _____

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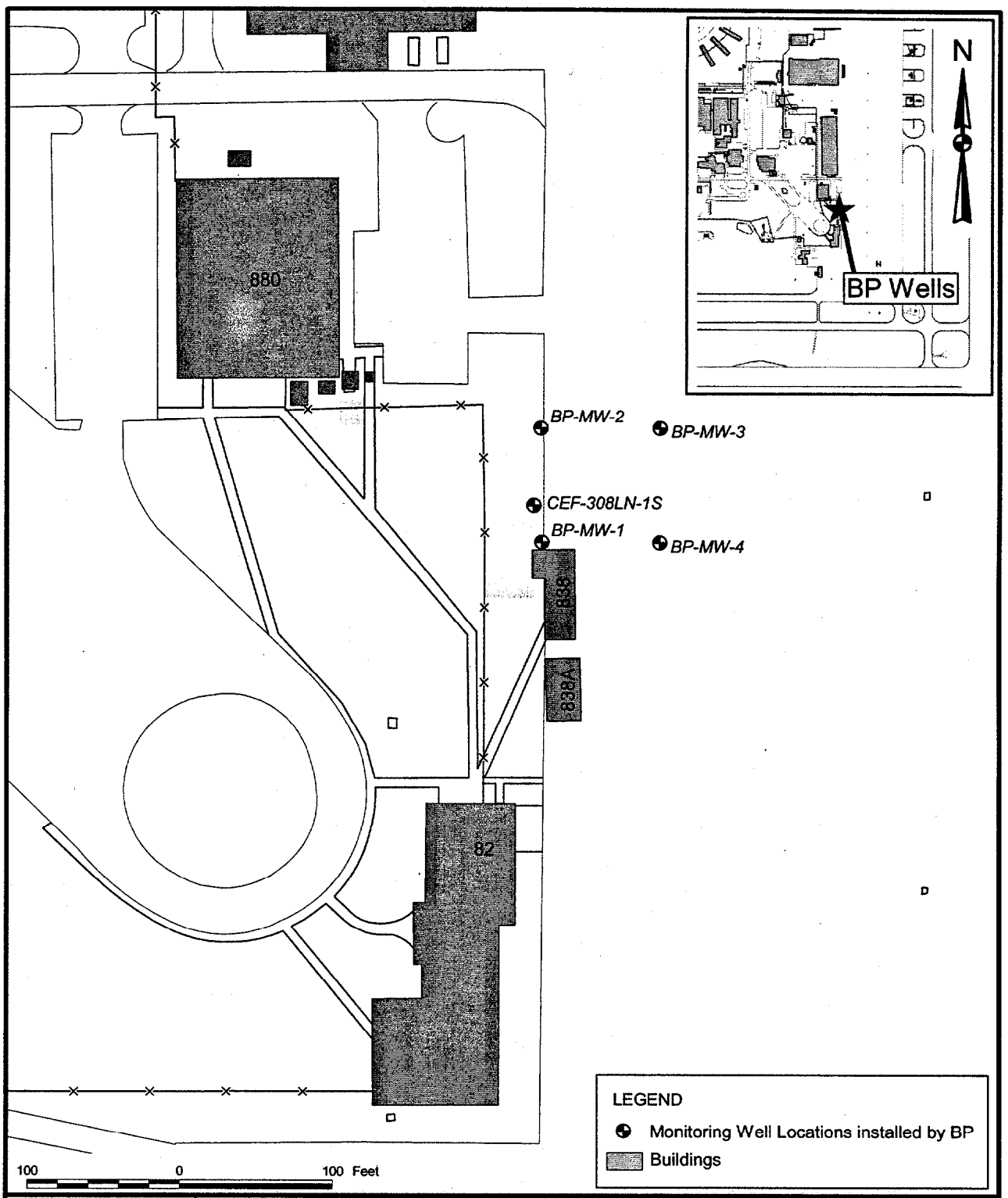
ACRONYMS

bgs	below ground surface
CLEAN	Comprehensive Long-Term Environmental Action Navy
CTO	Contract Task Order
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
GCTL	Groundwater Cleanup Target Level
MONA	Monitoring Only for Natural Attenuation
NAS	Naval Air Station
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PVC	Polyvinyl chloride
SAR	Site Assessment Report
TAL	Target Analyte List
TCL	Target Compound List
TMB	Trimethylbenzene
TRPH	Total Recoverable Petroleum Hydrocarbon
TtNUS	Tetra Tech NUS, Inc.
U.S. EPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound

1.0 INTRODUCTION

This Site Assessment Report (SAR) for the BP Wells Area at Naval Air Station (NAS) Cecil Field in Jacksonville, Florida has been prepared by Tetra Tech NUS, Inc. (TtNUS) for the Southern Division, Naval Facilities Engineering Command. This project was conducted under the Navy Comprehensive Long-Term Environmental Action Navy (CLEAN) Program, Contract Number N62467-94-D-088, Contract Task Order (CTO) 0078. This report summarizes the related field operations, results, conclusions, and recommendations of the future monitoring at the site.

The BP Wells Area is located on the north-south flightline, southeast of Building 880, on the west edge of the apron (Figure 1-1). In October 1999, Golder Associates, on behalf of BP Kaman, performed a due diligence investigation of the area for a proposed aircraft fueling station (Golder, 1999). As part of the investigation, four shallow monitoring wells were installed at the proposed location of the fuel tanks as shown on Figure 1-1. Groundwater samples from each well were analyzed for volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), pesticides and PCBs, total recoverable petroleum hydrocarbons (TRPH), and metals. Organic compounds, including TRPH, toluene, ethylbenzene, xylenes, naphthalene, 1, 2, 4-trimethylbenzene (TMB), and 1, 3, 5-TMB were detected in one of the wells at concentrations greater than the Florida Department of Environmental Protection (FDEP) Groundwater Cleanup Target Levels (GCTLs) criteria listed in Florida Administrative Code (FAC) 62-777 (FDEP, 1999a). Dieldrin, chromium, and lead were detected at concentrations greater than the FDEP GCTLs in another well. Based on the initial results, the Navy directed TtNUS to further investigate the nature and extent of the groundwater contamination as part of the Grey Site investigation program. The results of this investigation, described herein, indicated that the contamination was limited to non-chlorinated hydrocarbons and that the site should be managed under the Florida Petroleum Contamination Sites regulations, FAC 62-770 (FDEP, 1999b). This SAR describes the field investigations and recommendations.



DRAWN BY MJJ	DATE 12Jun00	SITE LOCATION MAP BP WELLS SITE SITE ASSESSMENT REPORT NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	CONTRACT NUMBER 0039
CHECKED BY	DATE		APPROVED BY / DATE
COST/SCHEDULE-AREA			APPROVED BY / DATE
SCALE AS NOTED			DRAWING NO. FIGURE 1-1 / REV 0

P:\GIS\CECIL\PSC47.APR 28Jun00 MJJ 1-1 Layout

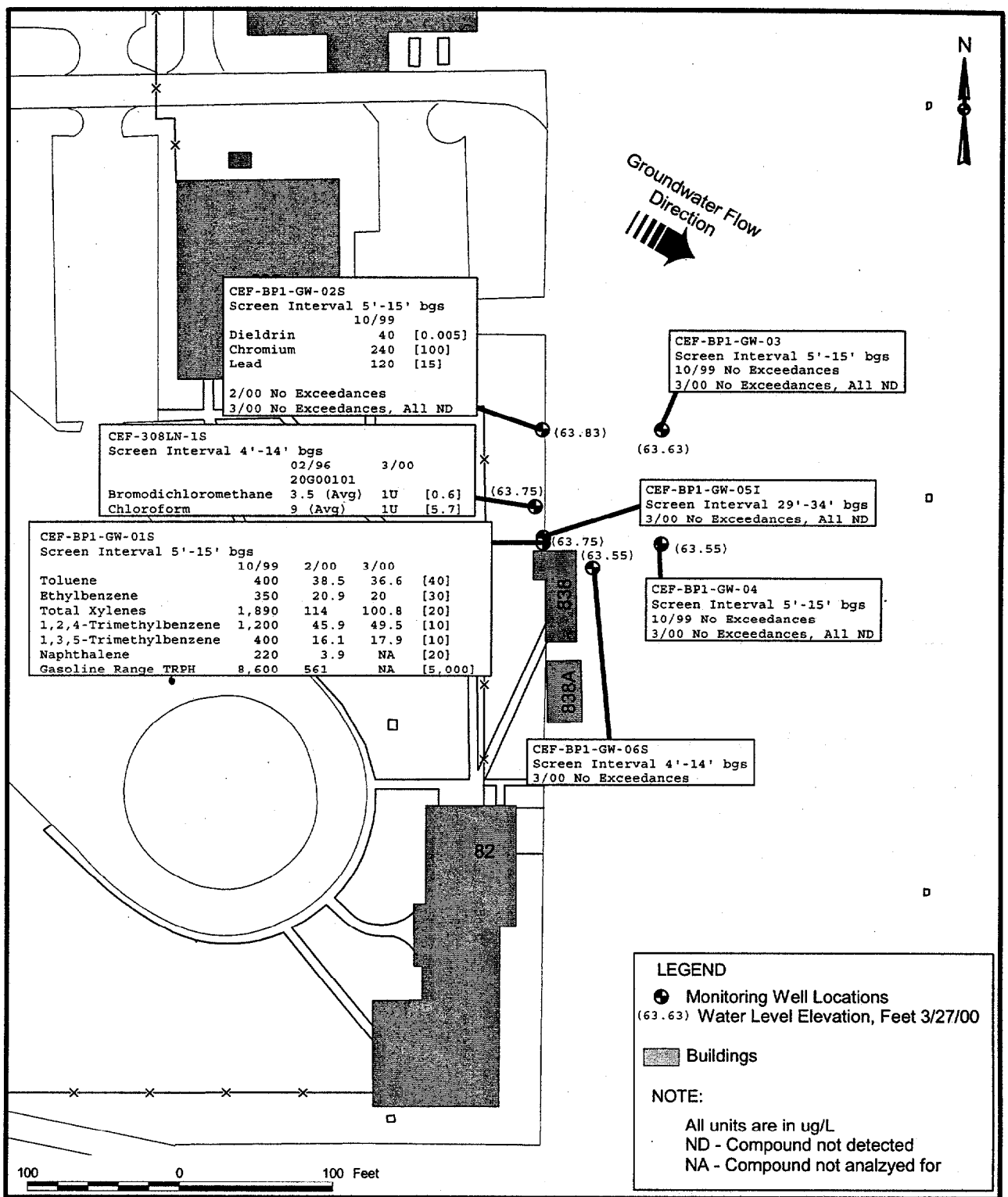
2.0 FIELD INVESTIGATION

The field investigation at the BP Wells Area was initiated per the Sampling and Analysis Work Plan (TtNUS, 2000) in February 2000 and included:

- Resampling and analyzing two of the Golder wells where contaminants were detected.
- Installing one shallow and one intermediate depth monitoring well.
- Sampling and analyzing groundwater samples from the two new wells concurrent with the sampling of the four Golder wells and one other existing well.

Golder installed four 2-inch diameter polyvinyl chloride (PVC) wells, each about 15 feet deep with 10 feet long screens. These wells were numbered by TtNUS as CEF-BP-1S, CEF-BP-2S, CEF-BP-3S, and CEF-BP-4S. To verify the Golder results, the two wells where contaminants were detected by Golder (CEF-BP-1S and CEF-BP-2S) were sampled using low-flow techniques in February 2000. The samples were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs) including trimethylbenzenes (TMBs), polycyclic aromatic hydrocarbons (PAHs) (by EPA Method 8310), dieldrin, TRPH, and Target Analyte List (TAL) metals. This sampling confirmed the presence of VOCs and TMBs. Dieldrin, chromium, and lead were not detected.

Based on these results, an intermediate depth well, CEF-BP-5I, was installed by TtNUS near the same location of CEF-BP-1S to determine the vertical extent of the plume. This well is PVC, is 2 inches in diameter, and is 35 feet deep with a screen 5 feet long. Another shallow monitoring well, CEF-BP-6S, was installed by TtNUS downgradient to define the horizontal extent of the plume. This well is PVC, is 2 inches in diameter, and is 15 feet deep with a screen 10 feet long. In March 2000, groundwater samples from these two new wells, the four Golder wells, and another existing well, CEF-308LN-1S, were analyzed for TCL VOCs, including TMBs. The locations of the Golder wells, CEF-308LN-1S, and the TtNUS wells are shown on Figure 2-1. The monitoring well construction details for the TtNUS wells are included in Appendix A.



DRAWN BY	DATE			CONTRACT NUMBER
MJJ	12Jun00		MONITORING WELL LOCATIONS AND RESULTS	0039
CHECKED BY	DATE		BP WELLS SITE	APPROVED BY / DATE
COST/SCHEDULE-AREA			SITE ASSESSMENT REPORT	APPROVED BY / DATE
SCALE AS NOTED			NAVAL AIR STATION CECIL FIELD JACKSONVILLE, FLORIDA	DRAWING NO. FIGURE 2-1 / REV 0

P:\GIS\CECIL\PSC47.APR 26Jun00 MJJ 2-1 Layout

3.0 ANALYTICAL RESULTS

Concentrations of contaminants in the groundwater samples from wells CEF-BP-2S, CEF-BP-3S, CEF-BP-4S, CEF-BP-5I, CEF-BP-6S, and CEF-308LN-1S were below FDEP GCTLs. Contaminants were only detected in one well, CEF-BP-1S. Thus, the plume is delineated and appears to be restricted to a small area in the shallow zone of the surficial aquifer. Xylenes and TMBs were detected CEF-BP-1S at concentrations above the FDEP GCTLs. These results are shown on Table 3-1. The results are also shown on Figure 2-1. Laboratory data sheets are provided in Appendix B.

Groundwater level measurements show that the groundwater flows to the southeast, which is consistent with other sites along the flightline. Table 3-2 summarizes the well installation details.

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS IN GROUNDWATER
BP WELLS SITE
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
PAGE 1 OF 2

Location	CEF-308LN-1S	BP-MW-1	BP-MW-1	BP-MW-1	BP-MW-2	BP-MW-2	BP-MW-2
Sample Number	CEF-308LN-1S-02	CEF-BP1-GW-01S-01	CEF-BP1-GW-01S-02	CEF-BP1-GW-DUP02	CEF-BP1-GW-02S-01	CEF-BP1-GW-DUP01	CEF-BP1-GW-02S-02
Sample date	03/27/00	02/03/00	03/27/00	03/27/00	02/03/00	02/03/00	03/27/00
Well Depth, Feet bgs	14	15	15	15	15	15	15
Volatile Organic Compounds (ug/L)							
1,2,4-TRIMETHYLBENZENE	1 U	**45.9**	**49.5**	**39.7**	1 U	1 U	1 U
1,3,5-TRIMETHYLBENZENE	1 U	**16.1**	**17.9**	**13.5**	1 U	1 U	1 U
ACETONE	5 UR	5 U	5 UR	5 U	5 U	5 U	5 UR
BENZENE	1 U	0.56 J	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	20.9	20	15	1 U	1 U	1 U
TOLUENE	1 U	38.5	36.6	30.1	1 U	1 U	1 U
XYLENES, TOTAL	3 U	**114**	**101**	**86**	3 U	3 U	3 U
Semivolatile Organic Compounds (ug/L)							
2-METHYLNAPHTHALENE		2.7			1.1 U	1 U	
ACENAPHTHYLENE		2			1.1 U	1 U	
NAPHTHALENE		3.9			1.1 U	1 U	
Inorganics (ug/L)							
ALUMINUM		88 U			1760	1790	
BARIUM		5.6			11.5	11.5	
COPPER		0.75 U			0.75 U	1.2	
IRON		209			754	758	
MERCURY		0.11			0.15	0.19	
VANADIUM		4.5 U			9.5	9.2	
ZINC		45.5			1.7 U	8.6	
Petroleum Hydrocarbons (mg/L)							
TPH (C8-C40)		0.561			0.25 U	0.25 U	

NOTES:
1 - NAS Cecil Field Inorganic Background Data set value
2 - Bold indicates concentrations greater than FDEP criteria.
3 - U - not detected at detection limit shown

TABLE 3-1

SUMMARY OF POSITIVE DETECTIONS IN GROUNDWATER
BP WELLS SITE
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA
PAGE 2 OF 2

Location Sample Number Sample date Well Depth, Feet bgs	BP-MW-3 CEF-BP1-GW-03S-01 03/27/00 15	BP-MW-4 CEF-BP1-GW-04S-01 03/27/00 15	BP-MW-5I CEF-BP1-GW-05I-01 03/27/00 35	BP-MW-6S CEF-BP1-GW-06S-01 03/27/00 14	FDEP GTCLs FAC 62-777
Volatile Organic Compounds (ug/L)					
1,2,4-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	10
1,3,5-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	10
ACETONE	5 UR	5 UR	5 U	26.3	700
BENZENE	1 U	1 U	1 U	1 U	1
CHLOROFORM	1 U	1 U	1 U	1.1	5.7
ETHYLBENZENE	1 U	1 U	1 U	1 U	30
TOLUENE	1 U	1 U	1 U	1 U	40
XYLENES, TOTAL	3 U	3 U	3 U	3 U	20
Semivolatile Organic Compounds (ug/L)					
2-METHYLNAPHTHALENE					20
ACENAPHTHYLENE					210
NAPHTHALENE					20
Inorganics (ug/L)					
ALUMINUM					13100 (1)
BARIUM					88.2 (1)
COPPER					12.5 (1)
IRON					7760 (1)
MERCURY					0.34 (1)
VANADIUM					49
ZINC					5000
Petroleum Hydrocarbons (mg/L)					
TPH (C8-C40)					5

NOTES:
1 - NAS Cecil Field Inorganic Background Data set value
2 - Bold indicates concentrations greater than FDEP criteria.
3 - U - not detected at detection limit shown

TABLE 3-2

MONITORING WELL CONSTRUCTION SUMMARY AND GROUNDWATER ELEVATIONS
BP WELLS SITE
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

Well Number	Total Depth, feet bgs	Screened interval, feet bgs	TOC elevation, feet	DTW, feet (3/27/00)	WL elevation, feet (3/27/00)
CEF-BP-1S	15	5-15	71.28	7.53	63.75
CEF-BP-2S	15	5-15	71.78	7.95	63.83
CEF-BP-3S	15	5-15	72.38	8.75	63.63
CEF-BP-4S	15	5-15	72.28	8.73	63.55
CEF-BP-5I	35	30-35	71.63	7.88	63.75
CEF-BP-6S	14	4-14	71.87	8.21	63.66

NOTES:
TOC - Top of casing
DTW - Depth to water from TOC
WL - Water level
bgs - below ground surface

4.0 CONCLUSIONS AND RECOMMENDATIONS

The investigation confirmed the presence of xylenes and TMBs in the groundwater at concentrations greater than the FDEP GCTLs provided in FAC 62-777. The horizontal and vertical extent of the plume has been delineated.

The concentrations of these chemicals are less than the threshold levels for natural attenuation. Therefore, it is recommended that monitoring only for natural attenuation (MONA) under the FDEP Petroleum Contamination Sites regulations be implemented for the BP Well Area site.

For the MONA, monitoring wells CEF-BP-1S and CEF-BP-6S should be sampled and analyzed on a semi-annual basis. The samples should be analyzed for VOCs, including TMBs by method SW-846 8260B.

The monitoring program is for a period of five years. The following milestone objectives will be used for the annual evaluation of the progress of natural attenuation.

Compound	End of Year 1	End of Year 2	End of Year 3	End of Year 4	End of Year 5
Xylenes, µg/L	100	80	50	30	<20
1,2,4-Trimethylbenzene, µg/L	45	40	30	20	<10
1,3,5-Trimethylbenzene, µg/L	16	15	14	12	<10

REFERENCES

FDEP (Florida Department of Environmental Protection), 1999a. Contaminant Target Levels Rule, Soil, Groundwater and Surface Water Target Cleanup Levels, FAC Chapter 62-777, August.

FDEP, 1999b. Petroleum Contamination Site Cleanup Criteria, FAC Chapter 62-770, August.

Golder (Golder Associates), 1999. Due Diligence Investigation for Proposed BP Kaman Facility, NAS Cecil Field, Jacksonville, Florida, December.

TtNUS (Tetra Tech NUS), 2000. Sampling and Analysis Work Plan, BP Wells near Buildings 838LN and 308LN, NAS Cecil Field, Jacksonville, Florida, January.

TtNUS, 1998. Base-Wide Generic Work Plan at NAS Cecil Field, Jacksonville, Florida. Prepared for SOUTHNAVFACENGCOM, North Charleston, South Carolina, October.

APPENDIX A

MONITORING WELL CONSTRUCTION LOGS

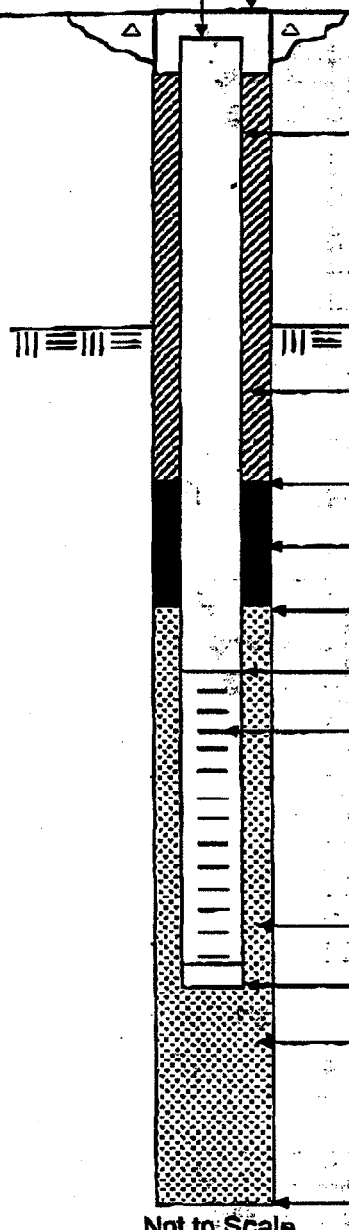
Tetra Tech NUS, Inc.

WELL No.: CEF-BP1-MW-05I

MONITORING WELL SHEET

PROJECT: NAS CECIL FIELD	DRILLING Co.: Groundwater Protection	BORING No.:	002
PROJECT No.: 0039	DRILLER: Jeff Ziegler	DATE COMPLETED:	3/14/00
SITE: BP Wells	DRILLING METHOD: Hollow Stem	NORTHING:	
GEOLOGIST: M. DALE	DEV. METHOD:	EASTING:	

Ground Elevation =
Datum:



Not to Scale

Elevation / Depth of Top of Riser:	1
Elevation / Height of Top of Surface Casing:	1 Ø FT.
I.D. of Surface Casing:	8 inch
Type of Surface Casing:	Steel Bolted Manhole
Type of Surface Seal:	concrete
I.D. of Riser:	2 inch
Type of Riser:	Sch. 40 PVC
Borehole Diameter:	8 inch
Elevation / Depth Top of Rock:	N/A
Type of Backfill:	Type I Portland Cement plus bentonite
Elevation / Depth of Seal:	1 26 FT.
Type of Seal:	20/65 grade Fine Sand
Elevation / Depth of Top of Filter Pack:	1 28 FT.
Elevation / Depth of Top of Screen:	130 FT.
Type of Screen:	Sch. 40 PVC
Slot Size x Length:	0.010 IN. x 5 FT.
I.D. of Screen:	2 inch
Type of Filter Pack:	20/30 Grade Sand
Elevation / Depth of Bottom of Screen:	135 FT.
Elevation / Depth of Bottom of Filter Pack:	136 FT.
Type of Backfill Below Well:	20/30 GRADE SAND
Elevation / Total Depth of Borehole:	136 FT.

Tetra Tech NUS, Inc.

WELL No.: CEF-BP1-MW-005

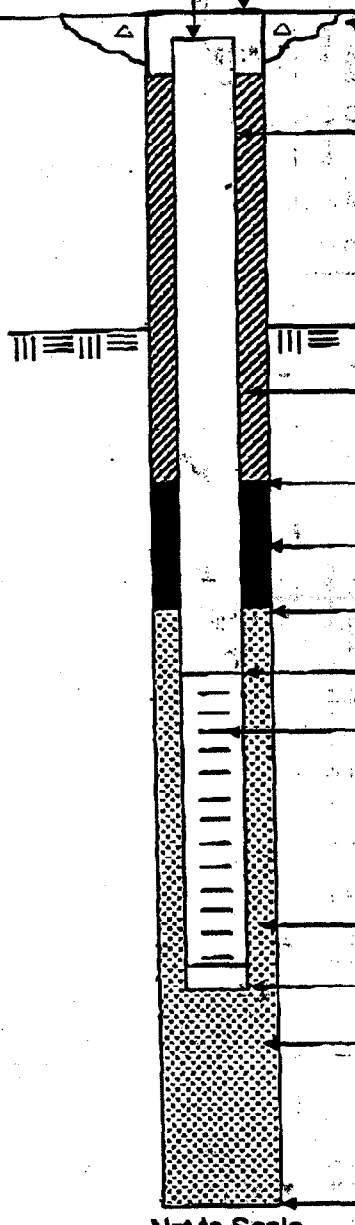
MONITORING WELL SHEET

PROJECT: NAS CECIL FIELD
PROJECT No.: 0039
SITE: BP wells
GEOLOGIST: M. Dale

DRILLING Co.: Groundwater Protection
DRILLER: J. Ziegler
DRILLING METHOD: Hollow Stem
DEV. METHOD:

BORING No.: 001
DATE COMPLETED: 3/14/00
NORTHING:
EASTING:

Ground Elevation =
Datum:



Not to Scale

Elevation / Depth of Top of Riser: 1

Elevation / Height of Top of Surface Casing: 1 & FT.

I.D. of Surface Casing: 8 inch

Type of Surface Casing: Steel boltdown manhole

Type of Surface Seal: concrete

I.D. of Riser: 2 inch

Type of Riser: Sch. 40, PVC

Borehole Diameter: 8 inch

Elevation / Depth Top of Rock: N/A

Type of Backfill: Portland Cement Type I with bentonite

Elevation / Depth of Seal: 12 FT.

Type of Seal: 30/65 Fine Sand

Elevation / Depth of Top of Filter Pack: 12 FT.

Elevation / Depth of Top of Screen: 14.5 FT.

Type of Screen: Sch. 40 PVC

Slot Size x Length: 0.010 IN. X 10 FT.

I.D. of Screen: 2 inch

Type of Filter Pack: 20/30 Grade Sand

Elevation / Depth of Bottom of Screen: 114.5 FT.

Elevation / Depth of Bottom of Filter Pack: 116 FT.

Type of Backfill Below Well: 20/30 Grade Sand

Elevation / Total Depth of Borehole: 116 FT.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

PITT-02-0-156

TO: **MR. M. SPERANZA** **DATE: MARCH 10, 2000**

FROM: **JUSTIN ORBICH** **CC: DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA/PAH/PEST/TPH**
CTO 078 – NAS CECIL FIELD
SDG F5822

SAMPLES: 3/Aqueous

CEF-BP1-GW-01S-01 CEF-BP1-GW-02S-01
CEF-BP1-GW-DUP01

1/Surface Soil

CEF-P47-SS-305-02

OVERVIEW

The sample set for CTO 078, SDG F5822 Naval Air Station (NAS) Cecil Field; Florida consists of three (3) aqueous environmental samples and one (1) surface soil environmental sample. The samples were analyzed for Target Compound List (TCL) volatile, Polynuclear Aromatic (PAH), pesticide, and Total Petroleum Hydrocarbon (TPH) organic compounds. The surface soil sample was analyzed for PAH organic compounds only. One (1) field duplicate pair (CEF-BP1-GW-DUP01) was included within this SDG.

The samples were collected by Tetra Tech, NUS on and February 3rd, 2000 and analyzed by Accutest Laboratories. All analyses were performed in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria and analyzed according to SW 846 Method 8260B, 8310, 8081A, and FLORIDA-PRO analytical and reporting protocols. The data in this SDG was validated with regard to the following parameters:

* • Data Completeness
* • Holding Times
* • Initial/continuing calibrations
* • Laboratory method/field quality control blank results
* • Detection Limits
* • Field Duplicate Precision

The symbol (*) indicates that all quality control criteria were met for this parameter. Problems affecting data quality are discussed below; documentation supporting these findings is presented in Appendix C. Qualified analytical results are presented in Appendix A.

VOLATILE FRACTION

All quality control parameters were met for this fraction.

PAH FRACTION

All quality control parameters were met for this fraction.

PEST FRACTION

All quality control parameters were met for this fraction.

TPH FRACTION

All quality control parameters were met for this fraction.

ADDITIONAL COMMENTS

Positive results reported below the reporting limits (RL) are qualified as estimated (J).

EXECUTIVE SUMMARY

Laboratory performance: None.

Other Factors Affecting Data Quality: None.

MEMO TO: **MR. M. SPERANZA**
DATE: **MARCH 10, 2000 – PAGE 3**

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (February, 1994), and the NFESC "Navy Installation Restoration Program Laboratory Quality Assurance Guide" (February, 1996). The text of this report has been formulated to address only those problems affecting data quality.

"I attest that the data referenced herein was validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Justin Orbich

Chemist/Data Validator
Tetra Tech, NUS

Joseph A. Samchuck

Data Validation Quality Assurance Officer
Tetra Tech, NUS

Attachments:
1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration (i.e., % RSDs, %Ds, ICVs, CCVs, RPDs, RRFs, etc.) Noncompliance
D = MS/MSD Noncompliance
E = LCS/LCSD Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - include ICSAB % R's
L = Instrument Calibration Range Exceedance
M = Sample Preservation
N = Internal Standard Noncompliance
O = Poor Instrument Performance (i.e., base-time drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = Pest/PCB D% between columns for positive results
V = Non-linear calibrations, tuning $r < 0.995$ (correlation coefficient)
W = EMPC result
X = Signal to noise response drop
Y = % Solid content is less than 30%

DATA QUALIFIER DEFINITIONS:

U - Value is a nondetected result as reported by the laboratory and should not be considered present.

J - Positive result is estimated as a result of a value below the CRQL or a technical noncompliance.

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-BP1-GW-01S-01		
Lab Sample ID:	F5822-1	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H006097.D	1	02/12/00	CJP	n/a	n/a	VH42
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	0.56	1.0	ug/l	J
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	20.9	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	45.9	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	16.1	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	38.5	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	114	3.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-BP1-GW-02S-01		
Lab Sample ID:	F5822-2	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H006098.D	1	02/12/00	CJP	n/a	n/a	VH42
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-DUP01		
Lab Sample ID:	F5822-3	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H006099.D	1	02/12/00	CJP	n/a	n/a	VH42
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	3.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-01S-01		
Lab Sample ID:	F5822-1	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	SW846 8310	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8777.D	1	02/24/00	AMA	02/10/00	M:OP1720	M:GLC112
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	2.0	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo (a) anthracene	ND	0.15	ug/l	
50-32-8	Benzo (a) pyrene	ND	0.15	ug/l	
205-99-2	Benzo (b) fluoranthene	ND	0.15	ug/l	
191-24-2	Benzo (g,h,i) perylene	ND	0.15	ug/l	
207-08-9	Benzo (k) fluoranthene	ND	0.15	ug/l	
218-01-9	Chrysene	ND	0.15	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	0.15	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	0.15	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	2.7	1.0	ug/l	
91-20-3	Naphthalene	3.9	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		20-160%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-02S-01		
Lab Sample ID:	F5822-2	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	SW846 8310	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8778.D	1	02/24/00	AMA	02/10/00	M:OP1720	M:GLC112
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.1	ug/l	
208-96-8	Acenaphthylene	ND	1.1	ug/l	
120-12-7	Anthracene	ND	1.1	ug/l	
56-55-3	Benzo (a) anthracene	ND	0.16	ug/l	
50-32-8	Benzo (a) pyrene	ND	0.16	ug/l	
205-99-2	Benzo (b) fluoranthene	ND	0.16	ug/l	
191-24-2	Benzo (g,h,i) perylene	ND	0.16	ug/l	
207-08-9	Benzo (k) fluoranthene	ND	0.16	ug/l	
218-01-9	Chrysene	ND	0.16	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	0.16	ug/l	
206-44-0	Fluoranthene	ND	1.1	ug/l	
86-73-7	Fluorene	ND	1.1	ug/l	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	0.16	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.1	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	ug/l	
91-20-3	Naphthalene	ND	1.1	ug/l	
85-01-8	Phenanthrene	ND	1.1	ug/l	
129-00-0	Pyrene	ND	1.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	59%		20-160%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-DUP01		
Lab Sample ID:	F5822-3	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	SW846 8310	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8779.D	1	02/24/00	AMA	02/10/00	M:OP1720	M:GLC112
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	1.0	ug/l	
208-96-8	Acenaphthylene	ND	1.0	ug/l	
120-12-7	Anthracene	ND	1.0	ug/l	
56-55-3	Benzo (a) anthracene	ND	0.15	ug/l	
50-32-8	Benzo (a) pyrene	ND	0.15	ug/l	
205-99-2	Benzo (b) fluoranthene	ND	0.15	ug/l	
191-24-2	Benzo (g,h,i) perylene	ND	0.15	ug/l	
207-08-9	Benzo (k) fluoranthene	ND	0.15	ug/l	
218-01-9	Chrysene	ND	0.15	ug/l	
53-70-3	Dibenz(a,h)anthracene	ND	0.15	ug/l	
206-44-0	Fluoranthene	ND	1.0	ug/l	
86-73-7	Fluorene	ND	1.0	ug/l	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	0.15	ug/l	
90-12-0	1-Methylnaphthalene	ND	1.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
85-01-8	Phenanthrene	ND	1.0	ug/l	
129-00-0	Pyrene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		20-160%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CEF-P47-SS-305-02		
Lab Sample ID:	F5822-4	**Date Sampled:**	02/03/00
Matrix:	SO - Soil	**Date Received:**	02/04/00
Method:	SW846 8310	**Percent Solids:**	90.2
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	LC8801.D	1	02/25/00	AMA	02/15/00	M:OP1747	M:GLC113
Run #2							

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	73	ug/kg	
208-96-8	Acenaphthylene	ND	73	ug/kg	
120-12-7	Anthracene	ND	73	ug/kg	
56-55-3	Benzo (a) anthracene	ND	11	ug/kg	
50-32-8	Benzo (a) pyrene	ND	11	ug/kg	
205-99-2	Benzo (b) fluoranthene	ND	11	ug/kg	
191-24-2	Benzo (g,h,i) perylene	ND	11	ug/kg	
207-08-9	Benzo (k) fluoranthene	ND	11	ug/kg	
218-01-9	Chrysene	ND	11	ug/kg	
53-70-3	Dibenz(a,h)anthracene	ND	11	ug/kg	
206-44-0	Fluoranthene	ND	11	ug/kg	
86-73-7	Fluorene	ND	73	ug/kg	
193-39-5	Indeno (1,2,3-cd) pyrene	ND	11	ug/kg	
90-12-0	1-Methylnaphthalene	ND	73	ug/kg	
91-57-6	2-Methylnaphthalene	ND	73	ug/kg	
91-20-3	Naphthalene	ND	73	ug/kg	
85-01-8	Phenanthrene	ND	73	ug/kg	
129-00-0	Pyrene	ND	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		20-130%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method bla
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-01S-01		
Lab Sample ID:	F5822-1	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	SW846 3510C/8081A	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST03154.D	1	02/10/00	SKW	02/09/00	OP1286	GST117
Run #2							

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.050	ug/l	
319-84-6	alpha-BHC	ND	0.050	ug/l	
319-85-7	beta-BHC	ND	0.050	ug/l	
319-86-8	delta-BHC	ND	0.050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	ug/l	
5103-71-9	alpha-Chlordane	ND	0.10	ug/l	
5103-74-2	gamma-Chlordane	ND	0.10	ug/l	
60-57-1	Dieldrin	ND	0.050	ug/l	
72-54-8	4,4'-DDD	ND	0.10	ug/l	
72-55-9	4,4'-DDE	ND	0.10	ug/l	
50-29-3	4,4'-DDT	ND	0.10	ug/l	
72-20-8	Endrin	ND	0.10	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	ug/l	
53494-70-5	Endrin ketone	ND	0.10	ug/l	
959-98-8	Endosulfan-I	ND	0.050	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	ug/l	
76-44-8	Heptachlor	ND	0.050	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	ug/l	
72-43-5	Methoxychlor	ND	0.20	ug/l	
8001-35-2	Toxaphene	ND	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		50-128%
2051-24-3	Decachlorobiphenyl	81%		11-157%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-02S-01		
Lab Sample ID:	F5822-2	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	SW846 3510C/8081A	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST03157.D	1	02/10/00	SKW	02/09/00	OP1286	GST117
Run #2							

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.050	ug/l	
319-84-6	alpha-BHC	ND	0.050	ug/l	
319-85-7	beta-BHC	ND	0.050	ug/l	
319-86-8	delta-BHC	ND	0.050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	ug/l	
5103-71-9	alpha-Chlordane	ND	0.10	ug/l	
5103-74-2	gamma-Chlordane	ND	0.10	ug/l	
60-57-1	Dieldrin	ND	0.050	ug/l	
72-54-8	4,4'-DDD	ND	0.10	ug/l	
72-55-9	4,4'-DDE	ND	0.10	ug/l	
50-29-3	4,4'-DDT	ND	0.10	ug/l	
72-20-8	Endrin	ND	0.10	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	ug/l	
53494-70-5	Endrin ketone	ND	0.10	ug/l	
959-98-8	Endosulfan-I	ND	0.050	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	ug/l	
76-44-8	Heptachlor	ND	0.050	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	ug/l	
72-43-5	Methoxychlor	ND	0.20	ug/l	
8001-35-2	Toxaphene	ND	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	87%		50-128%
2051-24-3	Decachlorobiphenyl	53%		11-157%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-DUP01		
Lab Sample ID:	F5822-3	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	SW846 3510C/8081A	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ST03158.D	1	02/10/00	SKW	02/09/00	OP1286	GST117
Run #2							

Pesticide TCL List

CAS No.	Compound	Result	RL	Units	Q
309-00-2	Aldrin	ND	0.050	ug/l	
319-84-6	alpha-BHC	ND	0.050	ug/l	
319-85-7	beta-BHC	ND	0.050	ug/l	
319-86-8	delta-BHC	ND	0.050	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.050	ug/l	
5103-71-9	alpha-Chlordane	ND	0.10	ug/l	
5103-74-2	gamma-Chlordane	ND	0.10	ug/l	
60-57-1	Dieldrin	ND	0.050	ug/l	
72-54-8	4,4'-DDD	ND	0.10	ug/l	
72-55-9	4,4'-DDE	ND	0.10	ug/l	
50-29-3	4,4'-DDT	ND	0.10	ug/l	
72-20-8	Endrin	ND	0.10	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.10	ug/l	
7421-93-4	Endrin aldehyde	ND	0.10	ug/l	
53494-70-5	Endrin ketone	ND	0.10	ug/l	
959-98-8	Endosulfan-I	ND	0.050	ug/l	
33213-65-9	Endosulfan-II	ND	0.10	ug/l	
76-44-8	Heptachlor	ND	0.050	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.050	ug/l	
72-43-5	Methoxychlor	ND	0.20	ug/l	
8001-35-2	Toxaphene	ND	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		50-128%
2051-24-3	Decachlorobiphenyl	57%		11-157%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

020

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-01S-01		
Lab Sample ID:	F5822-1	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP06919.D	1	02/10/00	ME	02/07/00	OP1278	GOP324
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.561	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blan
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-02S-01		
Lab Sample ID:	F5822-2	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP06895.D	1	02/09/00	ME	02/07/00	OP1278	GOP322
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-BP1-GW-DUP01		
Lab Sample ID:	F5822-3	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
Method:	FLORIDA-PRO	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP06896.D	1	02/09/00	ME	02/07/00	OP1278	GOP322
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		40-140%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. SPERANZA**	**DATE:**	**MARCH 14, 2000**
FROM:	**JENNIFER M. MALLE**	**COPIES:**	**DV FILE**
SUBJECT:	**INORGANIC DATA VALIDATION – TAL METALS CTO-078 NAS CECIL FIELD SDG- F5822**		

SAMPLES: 3/Aqueous/

CEF-BP1-GW-01S-01 CEF-BP1-GW-02S-01 CEF-BP1-GW-DUP01

Overview

The sample set for CTO 078, NAS Cecil Field, SDG F5822, consists of three (3) aqueous environmental samples. The field duplicate pair CEF-BP1-GW-02S-01/CEF-BP1-GW-DUP01 was included within this SDG.

All samples were analyzed for Target Analyte List (TAL) metals. The samples were collected by Tetra Tech NUS on February 3, 2000 and analyzed by Accutest Laboratories in accordance with Naval Facilities Engineering Service Center (NFESC) Navy Installation Restoration Laboratory Quality Assurance Guide, (February 1996). Metal analyses were conducted using SW846 method 6010B.

Metal analyses, with the exception of mercury, were conducted using Inductively Coupled Plasma (ICP) methodologies. Mercury analyses were conducted using Cold Vapor Atomic Absorption (CVAA) methodologies.

The data was evaluated based on the following parameters:

* • Data Completeness
* • Holding Times
  • Laboratory Blank Analyses
* • Calibration Verification
* • Field Duplicate Precision
* • Detection Limits

* - All quality control criteria were met for this parameter.

Laboratory Blank Analyses

The following contaminants were detected in the laboratory method/preparation blanks at the following maximum concentrations:

Affected samples: All

Analyte	Maximum Concentration	Action Level (aqueous)
Aluminum	43.1 ug/L	215.5 ug/L
Barium	0.90 ug/L	4.5 ug/L
Beryllium	1.4 ug/L	7.0 ug/L
Cadmium	0.90 ug/L	4.5 ug/L
Calcium	41.4 ug/L	207 ug/L
Chromium	1.2 ug/L	6.0 ug/L
Cobalt	0.90 ug/L	4.5 ug/L
Lead	2.0 ug/L	10.0 ug/L
Magnesium	42.0 ug/L	210 ug/L
Manganese	0.90 ug/L	4.5 ug/L
Nickel	1.8 ug/L	9.0 ug/L
Potassium	88.8 ug/L	444 ug/L
Selenium	3.3 ug/L	16.5 ug/L
Sodium	321 ug/L	1605 ug/L
Thallium	6.7 ug/L	33.5 ug/L
Vanadium	0.99 ug/L	4.95 ug/L
Zinc	1.2 ug/L	6.0 ug/L

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors were taken into consideration in evaluation for blank contamination. Positive results less than the action level for aluminum, beryllium, chromium, lead, manganese, nickel, selenium, thallium, vanadium and zinc were qualified as nondetected, "U". No validation action was required for the remaining analytes, as the results reported were either greater than the action level or qualified nondetected by the laboratory.

Notes

A field duplicate comparison table is included in Appendix C.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory/preparation blanks.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Inorganic Review", February 1994 and the NFESC document entitled "Navy Installation Restoration Laboratory Quality Assurance Guide" (NFESC 2/96).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Jennifer M. Malle
Tetra Tech NUS
Jennifer M. Malle
Environmental Scientist

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-01S-01		
Lab Sample ID:	F5822-1	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
		Percent Solids:	n/a
Project:	NAS Cecil Field		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Aluminum	88.0 B	200	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Antimony	2.4 U	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Arsenic	3.4 U	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Barium	5.6 B	200	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Beryllium	0.36 U	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Cadmium	0.33 U	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Calcium	26800	1000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Chromium	0.64 U	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Cobalt	0.80 U	50.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Copper	0.75 U	25.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Iron	209 B	300	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Lead	1.6 B	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Magnesium	9420	5000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Manganese	3.9 B	15.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Mercury	0.11 B	1.0	ug/l	1	02/07/00	02/08/00	SJL	SW846 7470A
Nickel	1.0 U	40.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Potassium	2260 B	5000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Selenium	3.1 B	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Silver	0.96 U	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Sodium	2430 B	5000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Thallium	2.7 U	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Vanadium	4.5 B	50.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Zinc	45.5	20.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-02S-01		
Lab Sample ID:	F5822-2	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
		Percent Solids:	n/a
Project:	NAS Cecil Field		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Aluminum	1760	200	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Antimony	2.4 U	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Arsenic	3.4 U	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Barium	11.5 B	200	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Beryllium	0.49 B	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Cadmium	0.33 U	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Calcium	42300	1000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Chromium	2.3 B	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Cobalt	0.80 U	50.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Copper	0.75 U	25.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Iron	754	300	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Lead	2.1 B	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Magnesium	1050 B	5000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Manganese	3.6 B	15.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Mercury	0.15 B	1.0	ug/l	1	02/07/00	02/08/00	SJL	SW846 7470A
Nickel	1.8 B	40.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Potassium	3330 B	5000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Selenium	4.1 B	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Silver	0.96 U	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Sodium	2490 B	5000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Thallium	3.1 B	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Vanadium	9.5 B	50.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Zinc	1.7 B	20.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A

RL = Reporting Limit

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Report of Analysis

Client Sample ID:	CEF-BP1-GW-DUP01		
Lab Sample ID:	F5822-3	**Date Sampled:**	02/03/00
Matrix:	AQ - Ground Water	**Date Received:**	02/04/00
		Percent Solids:	n/a
Project:	NAS Cecil Field		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method
Aluminum	1790	200	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Antimony	2.4 U	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Arsenic	3.4 U	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Barium	11.5 B	200	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Beryllium	0.39 B	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Cadmium	0.33 U	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Calcium	41200	1000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Chromium	2.4 B	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Cobalt	0.80 U	50.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Copper	1.2 B	25.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Iron	758	300	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Lead	2.3 B	5.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Magnesium	1010 B	5000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Manganese	3.5 B	15.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Mercury	0.19 B	1.0	ug/l	1	02/07/00	02/08/00	SJL	SW846 7470A
Nickel	1.1 B	40.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Potassium	3270 B	5000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Selenium	4.6 B	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Silver	0.96 U	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Sodium	12100	5000	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Thallium	2.7 U	10.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Vanadium	9.2 B	50.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A
Zinc	8.6 B	20.0	ug/l	1	02/07/00	02/08/00	JK	SW846 6010A

RL = Reporting Limit

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Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. SPERANZA**	**DATE:**	**MAY 15, 2000**
FROM:	**GRETCHEN PHIPPS**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOLATILES**
CTO 078 - NAS, CECIL FIELD
SDG – F6138

SAMPLES: 8/Aqueous/

CEF-308LN-1S-02	CEF-BP1-GW-01S-02
CEF-BP1-GW-02S-02	CEF-BP1-GW-03S-01
CEF-BP1-GW-04S-01	CEF-BP1-GW-05I-01
CEF-BP1-GW-06S-01	CEF-BP1-GW-DUP02

Overview

The sample set for CTO 078, NAS Cecil Field, SDG F6138, consists of eight (8) aqueous environmental samples. One (1) field duplicate pair (CEF-BP1-GW-01S-02 / CEF-BP1-GW-DUP02) was included within this SDG.

All samples were analyzed for TCL volatile organics, 1,2,4-trimethyl benzene and 1,3,5-trimethyl benzene. The samples were collected by Tetra Tech NUS on March 27, 2000 and analyzed by Accutest Laboratory. Volatile analyses were conducted using SW 846 method 8260B.

The data was evaluated based on the following parameters:

* • Data Completeness
• Calibration Verifications
* • Holding Times
• Laboratory Blank Analyses
* • Surrogate Recoveries
• Field Duplicate Results
* • Detection Limits

* - All quality control criteria were met for this parameter.

Calibration Verifications

The initial and continuing calibration RRFs for acetone and 2-butanone were <0.05 affecting the samples analyzed on March 29. The nondetected results reported for the above listed compounds in the affected samples were qualified as rejected, "UR".

The initial calibration %RSDs for bromomethane, carbon tetrachloride, dibromochloromethane and bromoform were >30%, but <50% quality control limits affecting the samples analyzed on April 7. No validation action was taken on this basis.

The continuing calibration %Ds for bromomethane, carbon tetrachloride, dibromochloromethane and bromoform were >25% quality control limit affecting the samples analyzed on April 7. The nondetected results reported for the above listed compounds in the affected samples were qualified as estimated, "UJ".

Notes

The laboratory reported more compounds than requested. The requested compound list included TCL volatile organics, 1,3,5-trimethyl benzene and 1,2,4-trimethyl benzene.

Executive Summary

Laboratory Performance: Several compounds were qualified due to calibration noncompliances.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the "National Functional Guidelines for Organic Review", February 1994 and the NFESC document entitles "Navy Installation Restoration Laboratory Quality Assurance Guide." (NFESC 2/96).

The text of this report has been formulated to address only those problem areas affecting data quality.

"I attest that the data referenced herein were validated according to the agreed upon validation criteria as specified in the NFESC Guidelines and the Quality Assurance Project Plan (QAPP)."

Gretchen A Phipps

Tetra Tech NUS
Gretchen A. Phipps

Tetra Tech NUS
Joseph A. Samchuck
Quality Control Officer

Attachments:

1. Appendix A - Qualified Analytical Data
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Support Documentation

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-308LN-1S-02		
Lab Sample ID:	F6138-5	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0012386.D	1	03/30/00	CJP	n/a	n/a	VG342
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-02-8	Acrolein	ND	1.0	ug/l	
107-13-1	Acrylonitrile	ND	1.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-308LN-1S-02		
Lab Sample ID:	F6138-5	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
108-05-4	Vinyl Acetate	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		69-128%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blan
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-BP1-GW-01S-02		
Lab Sample ID:	F6138-1	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0012382.D	1	03/29/00	CJP	n/a	n/a	VG342
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-02-8	Acrolein	ND	1.0	ug/l	
107-13-1	Acrylonitrile	ND	1.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	2.3	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-BP1-GW-01S-02		
Lab Sample ID:	F6138-1	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	20.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	1.7	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	8.7	1.0	ug/l	
103-65-1	n-Propylbenzene	5.0	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	49.5	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	17.9	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	36.6	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
108-05-4	Vinyl Acetate	ND	1.0	ug/l	
	m,p-Xylene	78.2	1.0	ug/l	
95-47-6	o-Xylene	22.6	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		69-128%
2037-26-5	Toluene-D8	94%		80-120%
460-00-4	4-Bromofluorobenzene	100%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-BP1-GW-02S-02		
Lab Sample ID:	F6138-2	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0012383.D	1	03/29/00	CJP	n/a	n/a	VG342
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-02-8	Acrolein	ND	1.0	ug/l	
107-13-1	Acrylonitrile	ND	1.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-BP1-GW-02S-02		
Lab Sample ID:	F6138-2	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
108-05-4	Vinyl Acetate	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		69-128%
2037-26-5	Toluene-D8	94%		80-120%
460-00-4	4-Bromofluorobenzene	105%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blan
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-BP1-GW-03S-01		
Lab Sample ID:	F6138-3	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0012384.D	1	03/29/00	CJP	n/a	n/a	VG342
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-02-8	Acrolein	ND	1.0	ug/l	
107-13-1	Acrylonitrile	ND	1.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-BP1-GW-03S-01		
Lab Sample ID:	F6138-3	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
108-05-4	Vinyl Acetate	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		69-128%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-BP1-GW-04S-01		
Lab Sample ID:	F6138-4	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0012385.D	1	03/30/00	CJP	n/a	n/a	VG342
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-02-8	Acrolein	ND	1.0	ug/l	
107-13-1	Acrylonitrile	ND	1.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-BP1-GW-04S-01		
Lab Sample ID:	F6138-4	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
108-05-4	Vinyl Acetate	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		69-128%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	103%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-BP1-GW-05I-01		
Lab Sample ID:	F6138-6	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H006827.D	1	04/07/00	RAW	n/a	n/a	VH63
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-02-8	Acrolein	ND	1.0	ug/l	
107-13-1	Acrylonitrile	ND	1.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-BP1-GW-05I-01		
Lab Sample ID:	F6138-6	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
108-05-4	Vinyl Acetate	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		69-128%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	102%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blar
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-BP1-GW-06S-01		
Lab Sample ID:	F6138-7	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H006828.D	1	04/07/00	RAW	n/a	n/a	VH63
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	26.3	5.0	ug/l	
107-02-8	Acrolein	ND	1.0	ug/l	
107-13-1	Acrylonitrile	ND	1.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	1.1	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST

Report of Analysis

Client Sample ID:	CEF-BP1-GW-06S-01		
Lab Sample ID:	F6138-7	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	ug/l	
99-87-6	p-Isopropyltoluene	23.2	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
108-05-4	Vinyl Acetate	ND	1.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	114%		69-128%
2037-26-5	Toluene-D8	103%		80-120%
460-00-4	4-Bromofluorobenzene	98%		80-120%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

ACCUTEST.

Report of Analysis

Client Sample ID:	CEF-BP1-GW-DUP02		
Lab Sample ID:	F6138-8	**Date Sampled:**	03/27/00
Matrix:	AQ - Ground Water	**Date Received:**	03/28/00
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H006829.D	1	04/07/00	RAW	n/a	n/a	VH63
Run #2							

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	5.0	ug/l	
107-02-8	Acrolein	ND	1.0	ug/l	
107-13-1	Acrylonitrile	ND	1.0	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
108-86-1	Bromobenzene	ND	1.0	ug/l	
74-97-5	Bromochloromethane	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	ug/l	
75-25-2	Bromoform	ND	1.0	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	ug/l	
108-90-7	Chlorobenzene	ND	1.0	ug/l	
75-00-3	Chloroethane	ND	1.0	ug/l	
67-66-3	Chloroform	ND	1.0	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	ug/l	
110-75-8	2-Chloroethyl vinyl ether	ND	1.0	ug/l	
75-15-0	Carbon disulfide	ND	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	ug/l	

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field		

VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	15.0	1.0	ug/l	
591-78-6	2-Hexanone	ND	5.0	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	1.2	1.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	5.0	ug/l	
74-83-9	Methyl bromide	ND	1.0	ug/l	
74-87-3	Methyl chloride	ND	1.0	ug/l	
74-95-3	Methylene bromide	ND	1.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	7.8	1.0	ug/l	
103-65-1	n-Propylbenzene	3.4	1.0	ug/l	
100-42-5	Styrene	ND	1.0	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	1.0	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	39.7	1.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	13.5	1.0	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	ug/l	
108-88-3	Toluene	30.1	1.0	ug/l	
79-01-6	Trichloroethylene	ND	1.0	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
108-05-4	Vinyl Acetate	ND	1.0	ug/l	
	m,p-Xylene	67.1	1.0	ug/l	
95-47-6	o-Xylene	19.1	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	117%		69-128%
2037-26-5	Toluene-D8	107%		80-120%
460-00-4	4-Bromofluorobenzene	101%		80-120%

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