N60200.AR.003434
NAS CECIL FIELD, FL
5090.3a

REMEDIAL INVESTIGATION REPORT FOR OPERABLE UNIT 9 (OU 9) SITE 57 AND SITE 58
VOLUME 2 OF 2 APPENDICES C THROUGH F NAS CECIL FIELD FL
8/30/2002
TETRA TECH NUS INC

Remedial Investigation Report
for
Operable Unit 9, Sites 57 and 58

Volume II of II
Appendices C - F

Naval Air Station Cecil Field
Jacksonville, Florida

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

Contract Task Order 0078

August 2002

APPENDIX C

AQUIFER CHARACTERISTICS, CALCULATIONS, AND RECORDS

C.1 Monitoring Well Development Logs

- Site 57
- Site 58

C.2 Synoptic Groundwater Level Measurements

- Site 57
- Site 58

C.3 Aquifer Test Data and Calculations

- Site 57
- Site 58

C.1 Monitoring Well Development

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-824A-13D
Site: 824A
Date Installed: 9-11-01
Date Developed: 9-14-01
Dev. Method: pump
Pump Type: Submersible

Depth to Bottom (ft.): 88.0
Static Water Level Before (ft.): 5.69
Static Water Level After (ft.): 12.99
Screen Length (ft.): 5 ft
Specific Capacity: Not Available
Casing ID (in.): 2"

Responsible Personnel: Elena Rodriguez
Drilling Co.: Premier Drilling
Project Name: NAS CECIL FIELD
Project Number: 0039

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) DO
0923		—	5.69					
0933		10	15.19	24.1	6.80	0.609	>999	0.00
0943		20	14.99	24.1	6.81	0.585	342	
0953		35	14.68	24.0	6.86	0.560	223	
1003		40	14.69	24.0	6.85	0.542	175	
1007		55	14.68	24.0	6.80	0.534	214	change drums
1015		55+10=65	14.63	24.0	6.82	0.518	219	
1023		55+25=80	14.72	24.0	6.80	0.500	138	
1033		55+40=95	14.21	24.0	6.80	0.492	145	
1038		55+48=103	14.71	24.0	6.83	0.483	105	change drums
1048		110+55=110						
1100		110+10=120	14.39	23.9	7.12	0.482	113	
1110		110+25=135	14.44	24.0	6.90	0.472	52.1	
1120		110+45=155	14.49	23.9	6.90	0.463	69.3	
1130		110+55=165		23.9	6.92	0.459	73.2	change drums
1140		165+15=180	14.34	23.9	6.92	0.455	54.7	
1155		165+30=195		23.9	6.93	0.452	84.6	
1205		165+40=205	14.29	23.9	6.93	0.449	70.8	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF 824A-13D
Site: 824A
Date Installed: 9-11-01
Date Developed: 9-14-01
Dev. Method: Pump
Pump Type: Submersible

Depth to Bottom (ft.): 88.0
Static Water Level Before (ft.): 5.69
Static Water Level After (ft.): 12.99
Screen Length (ft.): 5'
Specific Capacity: Not available
Casing ID (in.): 2"

Responsible Personnel: Elena Rodriguez
Drilling Co.: Precision Drilling
Project Name: NAS CECIL FIELD
Project Number: N00039

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) Heavy rainfall
1215		165+55=220	14.29	23.9	6.94	0.448	76.8	clear
1217								change drum
1225		220+20=240		23.9	6.96	0.446	72.1	
1235		220+35=255	13.01	23.9	6.96	0.446	68.7	space between core & casing filling up
1245		220+38=258		23.9	6.94	0.445	64.5	
1255		220+45=265	12.99	24.0	6.93	0.445	69.5	with rainwater
1305		220+55=275	end purge. - stormwater overtopped well casing					

Day 2 of Development

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-824A-13D
Site: 57
Date Installed: 09/11/01
Date Developed: 09/14/01 & 09/16/01
Dev. Method: 1" Whale (Surge/Purge)
Pump Type: 1" Whale

Depth to Bottom (ft.): 86.2
Static Water Level Before (ft.): 5.46
Static Water Level After (ft.): 14.12***
Screen Length (ft.): 5'0
Specific Capacity: Not available
Casing ID (in.): 2"

Responsible Personnel: Tom Dickson (Development), Louis Knight (Installation)
Drilling Co.: Precision Drilling (Tommy Lynch - Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

*** Immediate Recovery

* 55 gallon (change drums) disconnect & reconnect flowcell, plus pump got moved around slightly
** Flowcell is leaking, capture amount is greater than reported

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)**	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)		
0757	1"	Surge	Screen Length (5ft)					Silty Brown		
0805		2.49		24.0	6.49	0.513	999.0	DO 8.62	Sal 0.0	ORP 190
0815		11.7	12.20	23.9	6.72	0.500	436.0	5.79	0.0	147
0830	1.2 gal/min	29.77	14.25	23.8	6.67	0.492	51.7	2.88	0.0	87
0845	1.2 gal/min	47.84	14.04	23.8	6.90	0.470	34.7	7.68	0.0	52 *
0900	1.07 gal/min	16.16 64.00	14.12	23.8	7.07	0.469	10.1	0.32	0.0	17
0915	1.07 gal/min	16.16 80.16	14.13	23.8	7.06	0.461	5.4	0.30	0.0	5
0925	(2 drums)	110 Gallon	14.12	23.8	7.05	0.456	45.4	0.29	0.0	1

Purge Volume = $d^2 \times 0.0408 \times h$ (water column) = $2^2 \times 0.0408 \times 80.74 = 13.17$ Gallons x 5 = 65.88 or 66 gallons
Annulus Volume = $d^2 \times 0.0408 \times h$ (water column) x 0.30 soil pore by - Casing Volume = $6^2 \times 0.0408 \times 80.74 \times 0.3 - 13.17$ Gallons: .4 x 5 = 112
Total Purge = Casing Volume + Annulus (Gravel Pack) Volume = 13.17 + 22.4 x 5 = 177.85 + Water Loss (Estimated to be 35 gal x 5)
Total Purge Volume = 353 gallons = 09/14/01 Purged

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Page ___ of _____

Well: CEF-824A-14S
Site: 57
Date Installed: 09/18/01
Date Developed: 09/29/01
Dev. Method: Surge/Purge
Pump Type: 1" Whale (Submersible)

Depth to Bottom (ft.): 13.55
Static Water Level Before (ft.): 6.98
Static Water Level After (ft.): Dry
Screen Length (ft.): 10.0'
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: Louis Knight - Geologist (Construction/Installation - (Development))
Drilling Co.: Precision Drilling (Tommy Lynch - Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units _____)	Turbidity (NTU)	Remarks (odor, color, etc.) SI. SULFUR ODOR
1621	1-2" Sweep Screen and Water Column; Chocolate brn, No odor or sheen; 3.0 L/min							
1629	Went Dry		DRY					
1637	NA	6.3 gal	7.65					Restart Pump Dark Brown
1639	"	7.9 gal	DRY	Pump intake 1' off bottom				Stop Pump "
1644	"	7.9	7.91					RECOVERY "
1649	"	7.9	7.50	Pump dropped to bottom of WELL →				Restart Pump "
1659	"		(below top of pump)	29.3	5.50	0.272	999	DO 1.77 ~~28.3~~ ORP -133 BRN
1709	"			28.2	5.45	0.201	819	1.57 -148 Lt BRN
1714	"	20.0	DRY					Stop Pump
1715:30	"		9.95					RECOVERY
1716:30	"		9.15					"
1717:30	"		—					"
1718	"		8.60					"
1719	"		8.33					"
1720	"		9.11					"
1725	"	20.0	7.61					"
1740	"		12.90	28.0	5.42	0.156	999	Restart Pump DO 3.29 ORP -115 Lt BRN
1742	"	33.0	DRY	→				END DEV

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-824A-15I
Site: 824A
Date Installed: 09/14/01
Date Developed: 9-16-01
Dev. Method: submersible
Pump Type: pump

Depth to Bottom (ft.): 41.45
Static Water Level Before (ft.): 5.44
Static Water Level After (ft.): ~~6.34~~ TD
Screen Length (ft.): 5'
Specific Capacity: Not Available
Casing ID (in.): 2"

Responsible Personnel: Elena Rodriguez
Drilling Co.: Precision
Project Name: NAS CECIL FIELD
Project Number: 0039

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1457		—	5.44					opaque brown
1507		10	11.32	25.3	6.51	0.548	552	milky
1517		20	11.14	25.2	6.06	0.455	167.0	
1523		30	10.99	25.2	5.85	0.551	103.0	
1533		40	10.87	25.2	5.73	0.391	90.5	
1543		50	10.35	25.2	5.60	0.290	76.0	clear
1548		55	10.44	25.2	5.56	0.248	61.3	change chamber
1553		5 | 60	10.49	25.2	5.37	0.225	27.0	
1603		15 | 70	10.56	25.2	5.35	0.190	16.3	
1612		25 | 80	10.58	25.1	5.25	0.161	~~8.46~~ 10.0	change chamber
1622		10 | 90	10.61	25.1	5.12	0.175	9.4	
1632		25 | 105	10.64	25.0	5.09	0.150	3.6	
1642		35 | 115	10.62	25.0	5.04	0.138	-3.0	
1647		40 | 120	10.61	25.0	5.03	0.134	-0.4	
1657		50 | 130	10.63	25.0	5.01	0.125	-5.0	
1703		55 | 135	10.62	25.0	4.97	0.124	-0.3	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-824A-16D
Site: 824A
Date Installed: 9-12-01
Date Developed: 9-16-01
Dev. Method: Pump
Pump Type: Submersible

Depth to Bottom (ft.): 87.43
Static Water Level Before (ft.): 6.39
Static Water Level After (ft.): —
Screen Length (ft.): 5'
Specific Capacity: Not Available
Casing ID (in.): 2"

Responsible Personnel: Elena Rodriguez
Drilling Co.: Precision Drilling
Project Name: NAS CECIL FIELD
Project Number: N00 39

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)		Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1032		—		6.39					opaque brown
1037		10		15.56	24.4	6.74	0.701	>999	
1047		20		15.39	24.0	6.80	0.523	249.0	
1057		30		15.45	23.9	6.81	0.518	56.8	clear
1107		42		15.44	23.9	6.85	0.512	15.6	
1117		55		15.39	23.9	6.87	0.504	16.7	clear - change drums
1127		10	65	14.87	23.9	6.90	0.497	-2.7	
1137		25	90	15.01	23.9	6.92	0.490	-1.3	
1147		35	90	15.00	23.9	6.93	0.478	-2.2	
1157		45	100	14.96	23.9	6.95	0.475	-0.3	
1204		55	110	14.85	23.9	6.96	0.473	0.9	change drums
1214		10	120	14.80	23.9	6.99	0.477	-10.0	
1224		25	135	14.75	23.9	6.97	0.474	-4.9	
1234		40	150	14.96	23.9	6.98	0.472	-5.0	
1244		48	158	14.89	23.9	6.98	0.470	-6.2	
1250		55	165	14.99	23.9	6.99	0.469	-5.9	change drums
1335		48	213	14.83	23.9	7.09	0.484	-3.7	
1340		55	220	14.82	23.9	6.98	0.482	-5.8	change drums

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-824A-16D
Site: 824A
Date Installed: 9-12-01
Date Developed: 9-16-01
Dev. Method: Pump
Pump Type: Submersible

Depth to Bottom (ft.): 87.43
Static Water Level Before (ft.): 6.39
Static Water Level After (ft.): 6.21
Screen Length (ft.): 5'
Specific Capacity:
Casing ID (in.): 2"

Responsible Personnel: Elena Rodriguez
Drilling Co.: Brewster Drilling
Project Name: NAS CECIL FIELD
Project Number: N0039

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal) 220	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1350		15 235	14.79	23.9	6.98	0.482	-8.5	
1400		25 245	14.68	23.9	6.99	0.476	-2.2	
1410		38 253	14.53	23.9	7.00	0.469	-5.1	
1420		50 270	14.40	23.9	7.00	0.464	-10.0	
1425		55 275	14.39	23.9	7.01	0.463	-6.5	change drums
1435		10 285	14.34	23.9	6.97	0.463	-10.0	
1440		15 290	end purge per Tom Dickson					

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-824A-17I
Site: 57
Date Installed: 09/13/01
Date Developed: 09/16/01
Dev. Method: Surge/Purge
Pump Type: 1" Whale w/ 3/8 ID Tubing

Depth to Bottom (ft.): 39.86
Static Water Level Before (ft.): 5.66
Static Water Level After (ft.): 9.21
Screen Length (ft.): 5'
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: Tom Dickson (Development) Louis Knight (Construction)
Drilling Co.: Precision Drilling (Tommy Lynch - Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

* Flow through cell put in Line
(1) Sulfur odor
(2) Clean Flow through cell

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units in S/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)			
1258	3-4' Sweep Screen and bottom; dark to chocolate brown; no odor or sheen										
1305		10.5	9.37	24.8	6.31	0.391	90.4	DO 8.42	SAL 0.0	ORP -45	
1315			9.37	24.8	5.84	0.253	16.5	0.43	0.0	-45	
1330	1.71 Gal/min	55.0	9.37	24.7	5.50	0.196	14.0	0.39	0.0	-80	*
1345			9.22	24.8	5.43	0.172	23.6	3.73	0.0	-90	(1)
1400			9.20	24.8	5.35	0.151	15.7	1.17	0.0	-89	(2)
1410	1.375 gal/min	110.0	9.21	24.8	5.34	0.139	3.5	0.38	0.0	-89	
1425			9.21	24.8	5.33	0.131	0.8	0.41	0.0	-89	
1440			9.21	24.7	5.26	0.119	0.1	0.46	0.0	-86	(2)
1445		165.0	9.21	24.8	5.13	0.112	0.1	0.46	0.0	-90	
1500			9.21	24.8	5.12	0.110	0.1	0.48	0.0	-90	
1505		195.0	9.21	24.8	5.10	0.107	0.1	0.49	0.0	-89	
	Stop Development - Parameters Stable										
						x 0.3					

Purge Volume = Casing volume + sand pack annulus - casing volume + water added x 5 = Total Purge Volume

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-824A-01BS
Site: 57, Bldg. 8244
Date Installed: 09/18/01
Date Developed: 09/20/01
Dev. Method: Surge/Purge
Pump Type: 1" Whale; 3/8 ID Tubing

Depth to Bottom (ft.): 13.40
Static Water Level Before (ft.): 5.95
Static Water Level After (ft.): —
Screen Length (ft.): 10'
Specific Capacity: Not available
Casing ID (in.): 2" PVC

Responsible Personnel: Tom Dickson (Development) Louis Knight (Construction/Installation)
Drilling Co.: Precision Drilling (Tommy Lynch - Driller)
Project Name: NAS CECIL FIELD
Project Number: N0039

PID: Well headspace 17.7 ppm
Pump placed approximately 1-foot from the bottom

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)		Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units µS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)			
1620	1-2" Sweep Screen and Water Column; Brown discharge; No odor											
1625				—	29.8	5.58	0.204	894.0	DO 6.60	SAL 0.0	ORP -69	
1635				—	29.9	5.44	0.140	226.0	6.02	0.0	-70	
1645			40	—	29.8	5.24	0.128	83.3	5.81	0.0	-61	
1655			50	—	29.8	5.36	0.121	47.0	5.48	0.0	-69	
1700			55	Gallons	Accumulated							
1705			75	—	29.8	5.34	0.115	30.5	6.01	0.0	-70	
1730			95	—	29.8	5.33	0.113	22.5	5.00	0.0	-72	
1745			110	—	29.8	5.34	0.111	16.6	4.88	0.0	-75	
1800			130	—	29.8	5.34	0.109	11.4	4.45	0.0	-77	
1815			150		29.8	5.35	0.108	9.6	3.67	0.0	-78	

Casing Volume = 2" x 0.0408 x 7.45 = 1.22 gallons x 5 = 6.07 gallons
6" x 0.0408 x 7.45 = 10.9 x 5 = 54.79 gallons
Water loss = 15 gallons x 5 = 75 gallons
} 136 Gallons

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Page ___ of ___

Terry Rojohn
Tom Dickson (Development)

Well: CEF-824A-19S
Site: 57
Date Installed: 09/18/01
Date Developed: 09/29/01
Dev. Method: Surge/Purge
Pump Type: ~~1" Whale Submersible~~ 3/4" Waterra; Peristaltic Pump

Depth to Bottom (ft.): 13.95
Static Water Level Before (ft.): ___
Static Water Level After (ft.): ___
Screen Length (ft.): 10.0'
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: Louis Knight-Geologist (Construction/Installation)
Drilling Co.: Precision Drilling (Tommy Lynch-Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)		Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)		Remarks (odor, color, etc.)		
1315		1.63 (Before Going		dry	Waterra	3/4)				Dirt burn Silty Sand discharge		
1330		3.5	5.13	8.50	(dry	"	"	")		Recharge 1.0 in 3.0 minutes		
1345		3.0	8.13	8.30	(dry	"		")				
1400				8.50	Begin	Pumping	(Peristaltic	Pump)		300 mL/min		
1405				8.60								
1415				8.66								
1435				8.75	Reduce Flowrate	200 mL/min				DO	ORP	
1440				8.50	28.8	5.43	0.106	999.0	922.0	3.01	38	
1450		5.0	13.13	8.50	28.8	5.34	0.104	999.0	833.0	1.52	19	
1500				8.45	28.8	5.32	0.101	983.0	772.0	1.40	18	
1510				8.43	28.7	5.36	0.104	999.0	855.0	1.33	4	
1520				8.42	28.7	5.45	0.111	999.0	859.0	1.65	-5	Reduced Flowrate
1530		4.0	17.13	8.31	27.7	5.54	0.121	999.0	879.0	1.84	-15	150 mL/min
1533	Increased Flowrate to 700 mL/min					5.73						
1535				8.80	29.0	5.43	0.250	999.0	753.0	1.18	-96	
1540				9.45	29.6	5.49	0.123	010.0	713.0	1.72	-30	
1550				10.58	29.4	5.64	0.152	999.0	—	5.24	-59	
1600		5.0	22.13	11.11	29.3	5.64	0.147	999.0	Error3	4.17	-91	

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-824A-19S
Site: 57 (Bldg. 824A)
Date Installed: 9-18-01
Date Developed: 9-20-01
Dev. Method: SUBM. PUMP
Pump Type: WHALE '921'

Depth to Bottom (ft.): 12.3
Static Water Level Before (ft.): 7.14
Static Water Level After (ft.): —
Screen Length (ft.): 10'
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: L. KNIGHT (Construction/Installation/Development)
Drilling Co.: PRECISION Drilling (Tommy Lynch-Driller)
Project Name: NAS CECIL FIELD
Project Number:

PID (WELLHEAD) = 0

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	Remarks (odor, color, etc.)
1610	START PUMP →		7.14	—	—	—	—	V.DK.BROWN.. TURBID
1620	ULTRA-TURBID.. SEDIMENT CLOGGING TUBE.. VERY LITTLE PRODUCTION (8g)							
1630	STOP DEVELOPMENT...			PUMP/TUBING SILTING IN... WELL RUNNING				
	DRY..	~10-12 gallons		pumped total				

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-824H-009
Site: 57, BLD 824
Date Installed: 09/18/01
Date Developed: 09/20/01
Dev. Method: SURGE & PURGE
Pump Type: 1 in WHALE PUMP

Depth to Bottom (ft.): 13.29
Static Water Level Before (ft.): 5.46
Static Water Level After (ft.): —
Screen Length (ft.): 10'
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: Louis Knight (Geologist-Construction/Installation) DAVE STEPHEN (Development)
Drilling Co.: Precision Drilling (Tommy Lynch - Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

PID = 2000+

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units ____)	Turbidity (NTU)	~~Remarks (odor, color, etc.)~~ DO	ORP	
1620	—	—	—	—	—	—	SWEEP SCREEN		—	
1625		7	7.06	30.4	5.56	.208	999	.89	-107	
1635		20	7.16	30.4	5.28	.152	999	.44	-124	
1645		33	7.20	30.2	5.15	.109	50.	.37	-124	
1655		55	7.29	30.2	5.05	.096	11	.25	-121	2nd Drum
1705		70	7.30	30.2	4.98	.088	5.1	.24	-120	
1715		85	7.32	30.2	4.94	.084	0	.24	-120	
1725	100	~~115~~ 105	7.34	30.2	4.89	.083	0	.23	-121	3RD Drum 1730
1735		115	7.36	30.1	4.87	.080	0	.23	-114	
1745		130	7.37	30.1	4.88	.079	0	.23	-115	
1750		138	7.37	30.1	4.87	.078	0	.22	-115	

PURGE RATE ~ 1.57 gpm

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-~~312S~~ 824A-22S
Site: Bldg. 824A (Site 57)
Date Installed: 12/7/01
Date Developed: 12/10/01
Dev. Method: _____ Pump
Pump Type: _____ Submersible

Depth to Bottom (ft.): 12.28
Static Water Level Before (ft.): 8.95
Static Water Level After (ft.): 9.01
Screen Length (ft.): 10
Specific Capacity: _____ N/A
Casing ID (in.): 2

Responsible Personnel: L. MIDDLETON
Drilling Co.: TRANSAMERICAN
Project Name: NAS CECIL FIELD
Project No.: ~~N3996~~ N0039 05'0 05H 105

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH S.U.	Specific Conductance (Units: mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1015	.2	0	8.95	—	—	—	—	—
1025		5	—					DRK BROWN
1035		10	—	26.4	4.74	0.149	238	SANDY
1045		20	—	26.4	4.62	0.131	181	CLEAR
1055		25	—	26.4	4.05	0.125	89	NO MORE SAND
1105		35		26.4	4.52	0.123	113	
1115		40		26.4	4.52	0.122	109	
1125		45		26.6	4.52	0.122	214	
1140		55		26.5	4.52	0.121	50	
	END PURGE							

55
110
40

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-824A-21T
Site: B.824A
Date Installed: 12/06/01
Date Developed: 12/07/01
Dev. Method: _____ Pump
Pump Type: _____ Submersible

Depth to Bottom (ft.): 39.5
Static Water Level Before (ft.): 8.64
Static Water Level After (ft.): _____
Screen Length (ft.): 5'
Specific Capacity: _____
Casing ID (in.): 2

Responsible Personnel: M. ONEILL
Drilling Co.: Trans American
Project Name: NAS CECIL FIELD
Project No.: N3996
N/A Geologist: L. KNIGHT
PID READING: 233.5

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units: mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1110	0.5'		8.64					strong odor lgt tan brown high sed volume
1120		15		24.53	5.05	0.077	>K	" "
1130		~~29~~ 30 MO	9.11	25.07	5.16	0.054	>K	clearing up
1140		~~39~~ 34 MO		24.51	4.44	0.050	>K	"
1150		40	9.16	24.15	3.70	0.049	235.0	clean out flow through
1200		47		24.12	4.20	0.049	200.0	clear tan
1210		55 39	9.18	24.09	4.27	0.048	141.0	new drum
1220		65		24.07	4.24	0.046	117.0	odor still present
1230		~~73~~ 8 MO	9.17	24.07	4.27	0.047	116.0	
1240		85		24.10	4.28	0.046	95.7	bubbles on top of H_2O
1250		94	9.19	24.09	4.25	0.046	106.0	sheen present
1300		105 MO		24.12	4.30	0.046	86.7	
1310		110	9.16	24.08	4.30	0.046	67.1	NEW DRUM
1320		120		24.06	4.28	0.045	83.4	
1330		130	9.17	24.05	4.30	0.045	104.8	
1340		140		24.13	4.31	0.045	62.0	rest
1350		~~150~~ MO	9.09	~~26~~ 24.54 MO	4.35	0.048	80.7	restart pump
1400		150 ~~160~~ MO		24.22	4.37	0.045	105.8	
1410		~~165~~ MO						

$\frac{53}{\times 3}$
165

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-824A-21I
Site: 53.824A
Date Installed: 12/06/01
Date Developed: 12/07/01
Dev. Method: _____ Pump
Pump Type: _____ Submersible

Depth to Bottom (ft.): 39.5
Static Water Level Before (ft.): 8.64
Static Water Level After (ft.): _____
Screen Length (ft.): 51
Specific Capacity: _____ N/A
Casing ID (in.): 2

Responsible Personnel: M. O'Neill
Drilling Co.: Trans American
Project Name: NAS CECIL FIELD
Project No.: N3996

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units: mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1410		158	9.21	24.25	4.34	0.046	108.0	
1420		165		24.27	4.37	0.045	87.5	
	end	development						

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF B312 - 09S
Site: 58 BLD 312
Date Installed: 09/18/01
Date Developed: 9/20/01
Dev. Method: SURGE & PURGE
Pump Type: 1 in WHALE PUMP

Depth to Bottom (ft.): 14.31
Static Water Level Before (ft.): 6.90
Static Water Level After (ft.): —
Screen Length (ft.): 10'
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: Louis Knight (Geologist-Construction/Installation) DAVE STEFKENS (Development)
Drilling Co.: Precision Drilling (Tommy Lynch-Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

PID = 58.2

Time	Estimated Sediment Thickness RATE	Cumulative Water Volume (Gal.) ESTIMATED	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)	
1353	—	—	SWEEP SCREEN		—	—	—	DO	ORP
1400		8	10.81	33.9	6.79	.440	956	8.57	47
1410		18	12.38	28.3	6.07	.302	425	2.56	56
1420		34	12.45	28.3	6.04	.250	10	1.67	71
1430		46	12.44	28.2	5.99	.233	0	1.27	78
1440		58	12.45	28.2	5.94	.227	0	1.09	82
1450		71	12.45	28.2	5.89	.215	0	.94	91
1500		84	12.45	28.2	5.84	.209	0	.91	96
1510		110	12.42	28.2	5.81	.204	0	.87	102
1520		123	12.41	28.2	5.78	.202	0	.86	106
1530		137	12.41	28.2	5.75	.200	0	.87	109

~~WE~~ DS PURGE RATE ~ 1.3 gpm

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-B312-10S
Site: Bldg. 312 (SITE 58)
Date Installed: 9-17-01
Date Developed: 9-20-01
Dev. Method: Subm. pump
Pump Type: WHALE '921'

Depth to Bottom (ft.): 14.30
Static Water Level Before (ft.): 4.53
Static Water Level After (ft.): —
Screen Length (ft.): 10'
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: L. Knight (Construction/Installation/Development)
Drilling Co.: Precision Drilling (Tommy Lynch - Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

PID (WELLHEAD) = 6.0

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.) ESTIMATED	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
0918	—	—	→ 4.53	—	—	—	—	START DEVELOPING
0928	—	20	—	27.66	5.31	0.149	268	PALE BROWN - TURBID
0938	—	38	—	27.64	5.11	0.133	86	CLEARING RAPIDLY
0948	—	54	—	27.65	5.27	0.127	60.8	PUMP RATE ~ 2gpm
0958	—	72	—	27.65	5.61	0.124	31	
1008	—	90	—	27.65	5.65	0.123	14.7	
1018	—	110	—	27.66	5.65	0.124	21.7	
1028	—	130	—	27.66	5.68	0.123	51.7	
1038	—	150	—	27.67	5.69	0.124	31.7	
1043	—	160	—	27.67	5.69	0.124	41.5	
1046	→ 4.65							

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Louis Knight (Geologist-Installation/Construction)

Well: CEP B 312-011S
Site: 58 BLD. 312
Date Installed: 09/17/01
Date Developed: 9/20/01
Dev. Method: Surge & Purge
Pump Type: 1 in whale

Depth to Bottom (ft.): 13.61
Static Water Level Before (ft.): 5.25
Static Water Level After (ft.): —
Screen Length (ft.): 10'
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: DAVE SIEFKEN (Development)
Drilling Co.: Precision Drilling (Tommy Lynch-Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

• 26417

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.) ESTIMATED	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)	
0833	—	—	—	—	—			SWEEP SCREEN	
0836	1-2"	4.5 3.5	7.11	29.2	6.03	0.566	999.0	DO 6.11	ORP -26
0847		~~16.57~~ ~~16.98~~ DS	7.30	29.0	5.75	0.299	899	.61	-122
0857		28.45	7.32	29.0	5.49	0.218	604	.48	-126
0907		4.2 39.54	7.34	29.0	5.44	0.205	415	.39	-127
0917		50.63	7.34	29.0	5.36	0.184	387	.30	-129
0927		4.8 63.31	7.38	29.0	5.31	0.176	222	.29	-132
0937		75.99	7.40	29.0	5.28	0.166	177	.27	-133
0947		88.67	7.41	29.0	5.27	0.161	181	.26	-133
0953		95.01	7.42	29.0	5.25	0.160	178	.25	-132
	FILLED 2 DRUMS, 110 gl - STOP								
1043	BEGIN PURGE, SWEEP SCREEN				~~5.32~~ DS	H_2O LEVEL 5.32			
1050	114.04 DS	~~114.04~~	5.71	29.1	~~5.40~~	.176	999	4.33	-106
1100		140.98	7.29	29.0	5.27	.162	801	.36	-119
1110		154.42 DS	7.21	29.1	5.24	.164	999	.38	-121
1120	DS	167.89 DS	7.23	29.1	5.21	.155	999	3.70	-122
1130		181.36	7.26	29.1	5.19	.150	264	3.53	-120
1140		194.83	7.35	29.1	5.16	.148	90.6	.25	-166

- N

BEGIN NEW DRUM

~~11.88~~ ~~11.09~~ 12.68 13.47

CONT. B312-0115

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF B312 - 0115
Site: SB BLD 312
Date Installed: 09/17/01
Date Developed: 9/20/01
Dev. Method: SURGE & PURGE
Pump Type: 1 in WHALE PUMP

Depth to Bottom (ft.): 13.61
Static Water Level Before (ft.): 5.25
Static Water Level After (ft.): —
Screen Length (ft.): 10'
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: Louis Knight (Geologist - Construction/Installation) DAVE SIEFKEN (Development)
Drilling Co.: Precision Drilling (Tommy Lynch - Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.) DO	ORP
1150		208.30	7.37	29.1	5.16	.146	58.3	2.93	-114
1200		215	7.37	29.1	5.15	.145	47.1	1.11	-113
1210		220	7.38	29.1	5.14	.144	40.9	.63	-111
		PUMPED	4; 55-GALLON DRUMS FROM WELL - WELL CUMULATIVE WATER						
			VOLUMES ARE AN ESTIMATE - TOTAL VOLUME PURGED IS						
			220 gallons						

H_2O PURGE RATE WAS ~~0 250 - 850 ml/min~~ DS
~ 4.8 - 5.1 liters per min

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-B312-12S
Site: 58 (BLDG. 312)
Date Installed: 9-17-01
Date Developed: 9-20-01
Dev. Method: SUBM PUMP
Pump Type: WHALE 1921'

Depth to Bottom (ft.): 13.80
Static Water Level Before (ft.): 5.30
Static Water Level After (ft.): —
Screen Length (ft.): 10
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: L. KNIGHT (Construction/Installation/Development)
Drilling Co.: PRECISION Drilling (Tommy Lynch - Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

Time	Estimated Sediment Thickness (Ft.)	Estimated Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1338	—	—	5.30	—	—	—	—	Pale brown; turbid
1348	—	20	7.05	26.16	4.47	0.078	208	PUMP RATE APPEARS TO BE
1358	—	40	7.08	26.16	4.35	0.073	80.4	~ 2 gpm.
1408	—	60	7.08	26.17	4.33	0.071	17.6	
1418	—	80	7.08	26.20	4.51	0.067	12.4	
1428	—	100	7.08	26.16	4.75	0.070	6.8	
1438	—	120	7.08	26.20	4.91	0.070	9.9	
1448	—	136	7.08	26.19	4.93	0.070	10.9	
1458	—	150		26.17	4.90	0.069	13.7	
1500	END	DEVELOPMENT		(~ 150 J)				

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Tom Dickson (Development)

Well: CEF-B312-013S
Site: 58, Bldg. 312
Date Installed: 09/17/01
Date Developed: 09/20/01
Dev. Method: Surge/Purge
Pump Type: 1" Whale; 3/8 ID Tubing

Depth to Bottom (ft.): 14.29
Static Water Level Before (ft.): 4.72
Static Water Level After (ft.): —
Screen Length (ft.): 10'
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: Louis Knight (Geologist - Construction/Installation)
Drilling Co.: Precision Drilling (Tommy Lynch - Driller)
Project Name: NAS CECIL FIELD
Project Number: N0039

Pumped placed in approximate center of the screen

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)		Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)			
0903	0-1"	Flowrate per/min	Total	Sweep Screen & Water Column					PID 7.7 ppm; grey (sand) to tan; No odor			
0907			7.0	6.19	29.3	5.31	0.141	887.0	DO 5.52	ORP -20	Sal 0.0	6600 ml/min
0912		8.71	15.7	6.23	29.3	5.14	0.126	169.0	4.03	-41	0.0	
0917		8.71	24.41	6.26	29.3	5.00	0.111	73.0	3.37	-46	0.0	
0926		15.69	40.10	6.30	29.3	4.83	0.099	18.6	2.97	-48	0.0	
0934		55 Gallons		6.29	29.3	4.72	0.093	16.3	3.29	-44	0.0	
0943		15.69	70.69	6.29	29.3	4.66	0.092	23.6	3.67	-43	0.0	
0953		17.43	88.125	6.30	29.3	4.38	0.089	5.5	4.16	-19	0.0	Cleaned Flow Cell
1000		12.18	100.3	6.29	29.4	4.51	0.087	5.7	3.58	-38	0.0	
1005		8.7	109	6.29	29.3	4.51	0.086	6.4	3.49	-39	0.0	
1015		17.4	126.4	6.30	29.4	4.50	0.085	9.5	2.79	-39	0.0	Flushed out Flow cell
1030			152.5	6.33	29.4	4.50	0.082	4.7	1.38	-42	0.0	Slight Sulfur odor 1.0 ppm (Drum)
			All	Parameters Stabilized								
							$6^2 \times 0.0408 \times 9.57 \times 0.3 \times 5 =$			21.08	gallons	
							$\times 0.3$					

Purge Volume Calculation =
Casing Volume: $2^2 \times 0.0408 \times 9.57 = 1.56$ gallons x 5 = 7.8 Gallons
Sand Pack (Annulus Volume): ~~$7.5^2 \times 0.0408$~~ ~~9.57 - 1.56 = 23.9 14.0 x 5 = 123.77 70~~
Water Loss: 15 gallons x 5 = 75

Total to be Purged = 103.6 gallons

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Tom Dickson (Development)

Well: CEF-B312-014S
Site: 58, Bldg. 312
Date Installed: 09/18/01
Date Developed: 09/20/01
Dev. Method: Surge/Purge
Pump Type: 1" Whale; 3/8 LD Tubing

Depth to Bottom (ft.): 13.85'
Static Water Level Before (ft.): 4.68
Static Water Level After (ft.): ~~4.68~~
Screen Length (ft.): 10'
Specific Capacity: Not Available
Casing ID (in.): 2" PVC

Responsible Personnel: Louis Knight (Geologist-Construction/Installation)
Drilling Co.: Precision Drilling (Tommy Lynch-Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

PID = 13.3 ppm
Pumped Placed center of the Screen

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)		Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)			
1230	1-2"	Sweep Screen & Water Column; Light tan sandy discharge							DO	Sal	ORP	
1233		190 g/min	5.7	6.33	26.0	5.69	0.203	999.0	7.14	0.0	-13	
1240		13.3	19.0	6.49	25.9	5.53	0.157	116.0	5.83	0.0	-36	
1245		9.5	28.5	6.49	25.9	5.36	0.138	15.9	5.23	0.0	-34	
1255		19.0	47.5	6.47	25.9	5.31	0.121	8.4	2.30	0.0	-43	
1300		Sweep Screen & Water Column										
1305		19.0	66.5	6.49	25.9	5.23	0.108	40.9	2.32	0.0	-41	
1315		19.0	85.5	6.50	25.8	5.26	0.107	11.6	2.20	0.0	-44	
1330		28.5	114	6.50	25.8	5.25	0.107	6.8	2.28	0.0	-46	
		Sweep Screen and Water Column										
1340		19.0	133	6.48	25.8	5.27	0.099	48.9	2.24	0.0	-44	
1350		19.0	152	6.47	25.9	5.17	0.100	7.1	2.38	0.0	-34	
1400		19.0	171	6.46	25.8	5.23	0.098	5.2	2.49	0.0	-42	
							x 0.3 = 17.94					

Casing Volume = $2^2 \times 0.0408 \times 9.17 - 1.5 \times 5 = 7.5$
Sand Pack Annulus = $6^2 \times 0.0408 \times 9.17 - 1.5 \times 5 = 59.8$
Water Lc = $15 \times 5 = 75$

100.44 ~~149.3~~ gallon (minimum purge volume)

Tetra Tech NUS, Inc.

MONITORING WELL DEVELOPMENT RECORD

Well: CEF-B312-15I
Site: 58
Date Installed: 09/14/01
Date Developed: 09/16/01
Dev. Method: Surge / Purge
Pump Type: 1" Whale (3/8 ID PV Tubing)

Depth to Bottom (ft.): 40.35'
Static Water Level Before (ft.): 4.25
Static Water Level After (ft.): —
Screen Length (ft.): 5'
Specific Capacity:
Casing ID (in.): 2" PVC

Responsible Personnel: Tom Dickson / Louis Knight - Geologist
Drilling Co.: Precision Drilling (Tommy Lynch - Driller)
Project Name: NAS CECIL FIELD
Project Number: 0039

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units S/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)		
1706	8"	Sweep	Screen interval and bottom					Light tan to brown discharge		
	No odor; PID Readings; or Sheen									
								DO	SAL	ORP
1715			7.61	23.9	6.47	0.281	166.0	1.88	0.0	58
1730		36.0	7.60	—	—	—	—	—	—	—
1745			7.60	23.8	5.32	0.132	116	0.98	0.0	143
1800			7.55	23.8	5.29	0.122	368.0	0.77	0.0	157
1815		(67.0)	103.0	23.8	5.31	0.112	186.0	1.02	0.0	155
1830		(22.34)	125.35	7.40	23.8	5.19	0.106	173.0	0.64	0.0	166
1845			150.0	7.40	23.8	5.16	0.095	123.0	0.58	0.0	167
1900			172.0	7.40	23.8	5.16	0.089	100.0	0.68	0.0	171
	Turbidity 100.0 all other parameters stable minimum purge volume was 118 gallons									

C.2 Synoptic Groundwater Level Measurements

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NAS Cecil Field
Project No.: 0039
Location: B. 824A Site 57
Personnel: L. Knight / D. SIEFKEN
Weather Conditions: P. CLOUDY – Mid 80s
Measuring Device: HERON DIPPER T WATER LEVEL METER
Tidally Influenced: Yes ___ No X
Remarks: * New Wells Pre-Survey Measurement

Well or Piezometer Number CEF-	Date 9/24/2001	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
293-04		1030		11.0	3.57			
293-07		1034		19.8	6.19			
293-01		1036		14.8	4.95			
293-08		1032		11.7	3.22			
293-14		1040		14.8	5.74			
293-13		1043		14.8	5.62			
293-06		1046		14.0	6.46			
293-03		1049		15.2	6.27			
293-10		1052		11.2	6.25			
824A-11S		1054		15.2	5.87			
293-22		1057		14.7	5.53			
293-11		1059		14.3	6.31			
825LS-1S		1101		18.0	6.80			
817.1S		1103		18.3	7.36			
824A-10S		1107		14.8	5.35			
824A-9S		1110		14.9	6.42			
824A-12I		1113		39.7	6.55			
* 824A-13D		1116		86.2	6.24			New Well Pre-Survey
* 824A-14S		1118		14.0	6.81			"
* 824A-15I		1119		40.5	6.73			"
* 824A-16D		1120		84.7	6.33			"
293-20		1125		14.5	6.20			
293-21		1128		14.8	6.31			
824A-23		1132		16.9	6.33			
824A-1Sa		1135		14.2	7.32			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NAS Cecil Field
Project No.: 0039
Location: B. 824A Site 57
Personnel: D. SIEKKEN / L. KNIGHT
Weather Conditions: P. CLOUDY / Mid 80s
Measuring Device: See Page 1
Tidally Influenced: Yes ___ No X
Remarks: See Page 1

Well or Piezometer Number CEF-	Date 9/24/2001	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
824A-6I		1138		38.2	7.17			
824A-4S		1142		14.6	6.80			
* 824A-17I		1144		40.55	6.60			New Well Pre-Survey Measurement
824A-5S		1148		16.8	7.02			
824A-7S		1154		14.9	7.89			
824A-3S		1157		18.0	7.05			
* 824A-20S		1200		14.0	5.83			"
* 824A-19S		1205		14.0	7.52			"
* 824A-18S		1208		14.0	6.42			"
016-40D		1212		90.1	6.83			
016-39I		1217		55.3	7.15			
016-38S		1223		16.8	7.10			
293-19		1228		14.2	6.41			
824A-1S		1238		14.8	5.72			
293-15D		1244		57.0	6.63			

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: RI @ OU9, Site 57
Project No.: N0039.DS005H105
Location: Cecil Field
Personnel: L. KNIGHT, L. MIDDLETON
Weather Conditions: CLEAR - 65-70
Measuring Device: O/W INTERFACE
Tidally Influenced: Yes ___ No x
Remarks:

Well or Piezometer Number	Date	Time	~~Elevation of Reference Point (feet)*~~ DTW	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
CEF-824A-01S	12/20	1541	8.01	9.62				
CEF-824A-01Sa	12/20	1416	9.08	14				
CEF-824A-02S	12/20	1426	8.32	16.8				
CEF-824A-03S	12/20	1411	8.48	17.5				NEEDS NEW CAP
CEF-824A-04S	12/20	1420	8.77	16				NEEDS NEW CAP
CEF-824A-05S	12/20	1414	8.42	17				
CEF-824A-06I	12/20	1418	9.17	40				
CEF-824A-07S	12/20	1409	9.13	15				
CEF-824A-08S	12/20	1404	9.13	15.03				
CEF-824A-09S	12/20	1508	8.52	15				
CEF-824A-10S	12/20	15.10	7.43	16				
CEF-824A-11S	12/20	1520	8.04	15				
CEF-824A-12I	12/20	1458	8.68	40				
CEF-824A-13D	12/20	1455	8.43	86.10				
CEF-824A-14S	12/20	1451	8.95	13.60				
CEF-824A-15I	12/20	1448	8.88	40.60				
CEF-824A-16D	12/20	1444	8.61	85.05				
CEF-824A-17I	12/20	1421	8.65	40.20				
CEF-824A-18S	12/20	1358	8.53	13.20				
CEF-824A-19S	12/20	1354	9.45	~~14.00~~ 13.88				
CEF-824A-20S	12/20	1350	7.90	13.66				
CEF-824A-21I	12/20	1514	8.21	39.68				
CEF-824A-22S	12/20	1346	8.91	13.23				
CEF-824-01S	12/20	1546	8.16	14.61				
CEF-825LS-01S	12/20	1516	8.80	17.92				

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: RI @ OU9, Site 57
Location: Cecil Field
Weather Conditions:
Tidally Influenced: Yes ___ No _x_

Project No.: N0039.DS005H105
Personnel: L. KNIGHT, L. MOORE
Measuring Device: O/W INTERFACE
Remarks:

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
CEF-293-1	12/20	1554	7.40	14.74				
CEF-293-3	12/20							
CEF-293-4	12/20	1550	7.91	11				
CEF-293-5	12/20	1602	7.61	11.65				
CEF-293-8	12/20	1559	9.13	15.10				
CEF-293-10	12/20	1519	8.29	15				
CEF-293-11	12/20	1513	8.47	14.2				
CEF-293-12	12/20	DESTROYED						
CEF-293-13	12/20	1549	7.86	13.18				
CEF-293-14	12/20	1548	8.10	14.71				
CEF-293-15D	12/20		8.75	57.09				
CEF-293-19	12/20	1503	8.54	13.8				
CEF-293-20	12/20	1430	8.35	14.4				
CEF-293-21	12/20	1427	8.46	14.46				
CEF-293-22	12/20	1522	7.75	14				
CEF-16-38S	12/20	1438	9.46	16.55				
CEF-16-39I	12/20	1435	9.47	55.25				
CEF-16-40D	12/20	1430	9.20	90.50				

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NAS Cecil Field
Project No.: 0039
Location: B. 312 Site 58
Personnel: D. SIEFKEN / L. KNIGHT
Weather Conditions: P. CLOUDY / LOW 90S
Measuring Device: Heron Dipper T Water Level meter
Tidally Influenced: Yes ___ No X
Remarks: * Pre Survey Measurements

	Well or Piezometer Number CEF-	Date 9/24-2001	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
*	B312-13S		1436		14.35	5.09			New well Pre-Survey Measurements ✓
*	B312-11S		1438		14.50	5.62			"
	B312-6S		1441		14.1	5.07			
	B312-3S		1443		14.2	4.73			
	B312-7S		1447		14.0	5.26			
*	B312-10S		1448		14.30	4.91			"
	B312-5S		1452		14.2	3.93			
	B312-2S		1454		14.4	~~4.10~~ 4.01	(LK)		
	B312-4S		1457		14.3	4.42			
	B312-01		1458		14.8	3.96			
	B312-1I		1459		33.8	4.20			
	B312-1S		1502		13.7	4.22			
	B312-8S		1508		14.0	4.98			
*	B312-15I		1509		40.2	4.95			"
*	B312-14S		1507		14.0	5.17			"
	B312-02		1516		14.2	5.27			
B312S-1S	~~B312S-1SA~~		1517		15.6	4.86			
*	B312-12S		1523		14.5	5.61			"
	~~B312S-1SA~~		1531		16.0	5.32			
	B312-9S		1528		14.35	7.34			

* All measurements to the nearest 0.01 foot

C.3 Aquifer Test Data and Calculations

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT SOUTHDIV		JOB NUMBER GTO 0078 0039 DS0 09H 110	
SUBJECT CECIL FIELD OU9, Site 57			
BASED ON		DRAWING NUMBER	
BY R MILLER	CHECKED BY TR 12/7/01	APPROVED BY	DATE

CEF-824A-055

Well diameter = 2"
Open interval = 10'
Storage coefficient = 0.15
Well-loss coefficient = 1

Thickness Aquifer = 81'
Depth to bedrock (avg) = 87'
Depth to water (avg) = 6'
87' - 6' = 81'

Static water level = 8.20' (1st page of field notes)
Depth to water during test = 9.63'
s = 0.437 m @ 5.846 min.
s = 0.437 m x 3.281 ft/m = 1.43' 8.20' + 1.43' = 9.63'

Length of test = 5.846 min x 1 hr/60 min = 9.74×10^{-2} hr

Pumping rate = 1.36 gpm
2 gal @ 1 min 30 sec 2 gal ÷ 1.5 min = 1.33 gpm
3 gal @ 2 min 10 sec 3 gal ÷ 2.17 min = 1.38 gpm
Avg = 1.36 gpm

****
DETERMINATION OF AQUIFER PROPERTIES BASED ON ANALYSIS OF
SPECIFIC CAPACITY TESTS
****

Copied from: Bradbury, K. R. and Rothschild, E. R., 1985. A computerized technique for estimating the hydraulic conductivity of aquifers from specific capacity data, Ground Water, 23(2), pp. 240-246.

WELL NUMBER CEF-824A-05S

WELL DIAMETER (IN) = 2
STATIC WATER LEVEL (FT) = 8.2
DEPTH TO WATER DURING TEST (FT) = 9.63
THE LENGTH OF THE TEST (HR) = .0974
PUMPING RATE (GPM) = 1.36
THICKNESS OF AQUIFER (FT) = 81
OPEN INTERVAL (FT) = 10
STORAGE COEFFICIENT = .15
WELL-LOSS COEFFICIENT = 1

SPECIFIC CAPACITY (GPM/FT) = .9510549

TRANSMISSIVITY: (FT*FT/SEC) = 1.273536E-02
(FT*FT/DAY) = 1100.335
(GAL/DAY/FT) = 8231.053
USING A STORAGE COEFFICIENT = .15
NUMBER OF ITERATIONS = 3

HYDRAULIC CONDUCTIVITY: (FT/SEC) = 1.572266E-04
(FT/DAY) = 13.58438
(GAL/DAY/FT*FT) = 90.24807

THE NUMBER OF WELLS IN THIS RECORD IS 1

In-Situ Inc. Hermit 3000

Report generated: 11/08/01 08:33:45
Report from file: C:\Win-Situ\Data\SN45671 2001-11-07 150144 DR 824A 5S .bin
DataMgr Version 3.70

Serial number: 00045671
Firmware Version 7.10
Unit name: HERMIT 3000

Test name: DR 824A 5S

Test defined on: 11/07/01 14:48:37
Test started on: 11/07/01 15:01:44
Test stopped on: 11/07/01 15:08:54
Test extracted on: 11/08/01 08:02:57

Data gathered using Logarithmic testing
Maximum time between data points: 0.1667 Minutes.
Number of data samples: 93

TOTAL DATA SAMPLES 93

Channel number [1]
Measurement type: Pressure
Channel name: PROBE 261
Linearity: 0.0596000
Scale: 14.0748000
Offset: -0.1421000
Warmup: 50
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Meters H2O
Referenced on: test start
Pressure head at reference: 2.079 Meters H2O
Baro Reference: 14.814 PSI

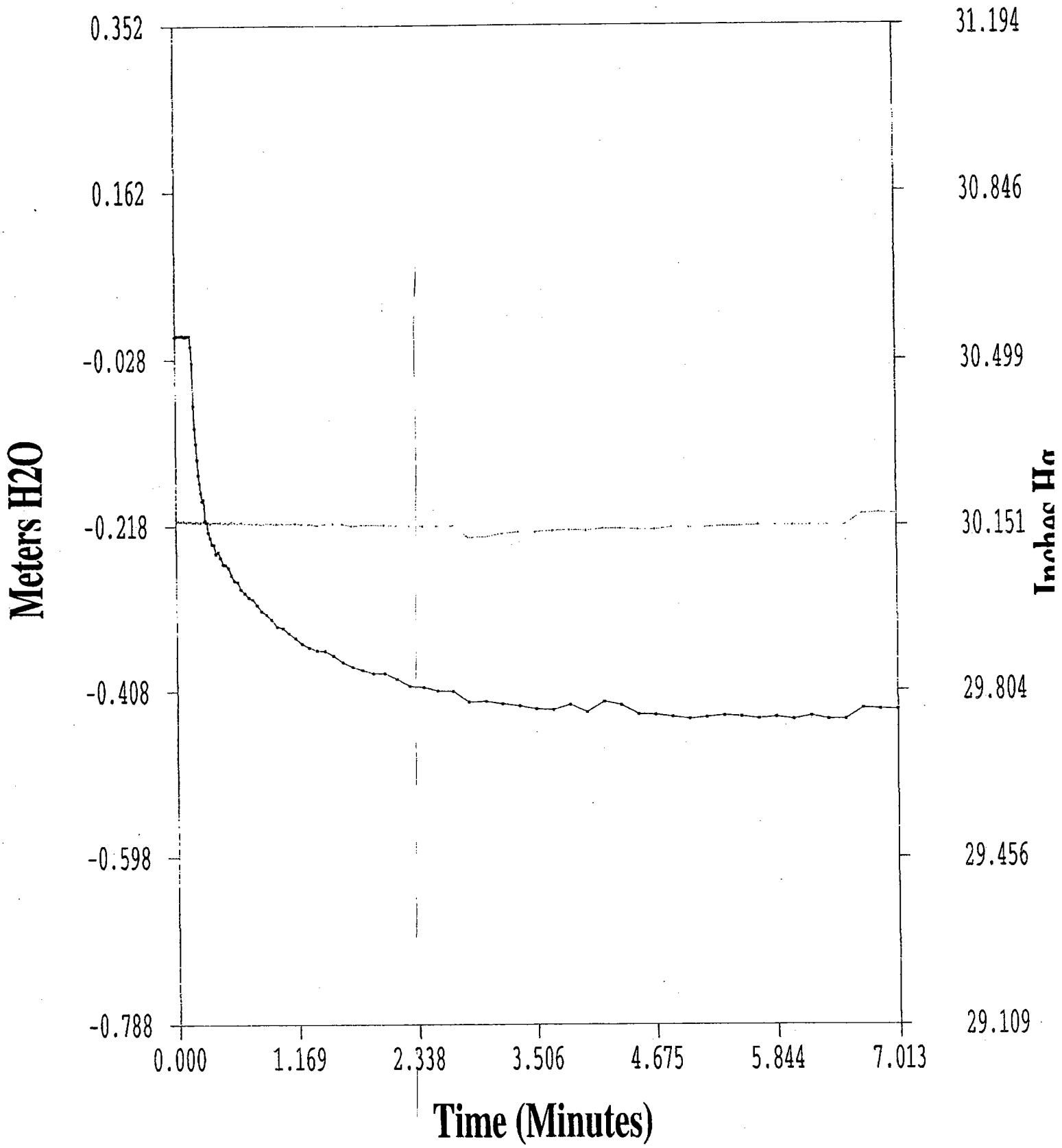
Channel number [0]
Measurement type: Barometric Pressure
Channel name: Barometric
Linearity: 0.0000000
Scale: 0.0000000
Offset: 0.0000000
Warmup: 50

Date	Time	ET (min)	Chan[1] Meters H2O	Chan[0] Inches Hg
11/07/01	15:01:44	0.0000	0.000	30.161
11/07/01	15:01:44	0.0110	0.001	30.161
11/07/01	15:01:45	0.0220	0.001	30.163
11/07/01	15:01:45	0.0330	0.001	30.161
11/07/01	15:01:46	0.0440	0.001	30.161
11/07/01	15:01:47	0.0550	0.001	30.161
11/07/01	15:01:47	0.0660	0.001	30.163
11/07/01	15:01:48	0.0770	0.001	30.161
11/07/01	15:01:49	0.0880	0.001	30.161
11/07/01	15:01:49	0.0990	0.000	30.159
11/07/01	15:01:50	0.1100	0.001	30.161
11/07/01	15:01:51	0.1210	0.001	30.161
11/07/01	15:01:51	0.1320	0.001	30.161
11/07/01	15:01:52	0.1430	0.001	30.161
11/07/01	15:01:53	0.1540	-0.012	30.161
11/07/01	15:01:53	0.1650	-0.031	30.159
11/07/01	15:01:54	0.1760	-0.080	30.159
11/07/01	15:01:55	0.1870	-0.106	30.159
11/07/01	15:01:55	0.1980	-0.124	30.161
[illegible]	[illegible]	[illegible]	[illegible]	30.161

11/07/01	15:01:57	0.2200	-0.159	30.159
11/07/01	15:01:57	0.2310	-0.169	30.159
11/07/01	15:01:58	0.2427	-0.180	30.159
11/07/01	15:01:59	0.2552	-0.189	30.161
11/07/01	15:02:00	0.2683	-0.187	30.161
11/07/01	15:02:00	0.2823	-0.211	30.159
11/07/01	15:02:01	0.2972	-0.213	30.159
11/07/01	15:02:02	0.3128	-0.224	30.159
11/07/01	15:02:03	0.3295	-0.231	30.157
11/07/01	15:02:04	0.3472	-0.238	30.159
11/07/01	15:02:05	0.3658	-0.239	30.159
11/07/01	15:02:07	0.3857	-0.250	30.159
11/07/01	15:02:08	0.4067	-0.247	30.159
11/07/01	15:02:09	0.4288	-0.254	30.159
11/07/01	15:02:11	0.4523	-0.262	30.157
11/07/01	15:02:12	0.4772	-0.262	30.159
11/07/01	15:02:14	0.5035	-0.265	30.157
11/07/01	15:02:15	0.5315	-0.273	30.159
11/07/01	15:02:17	0.5612	-0.280	30.159
11/07/01	15:02:19	0.5925	-0.281	30.157
11/07/01	15:02:21	0.6257	-0.290	30.159
11/07/01	15:02:23	0.6608	-0.294	30.157
11/07/01	15:02:25	0.6982	-0.299	30.157
11/07/01	15:02:28	0.7377	-0.301	30.157
11/07/01	15:02:30	0.7795	-0.308	30.157
11/07/01	15:02:33	0.8238	-0.315	30.155
11/07/01	15:02:36	0.8708	-0.319	30.157
11/07/01	15:02:39	0.9207	-0.324	30.157
11/07/01	15:02:42	0.9733	-0.333	30.155
11/07/01	15:02:45	1.0292	-0.335	30.157
11/07/01	15:02:49	1.0883	-0.340	30.155
11/07/01	15:02:53	1.1510	-0.346	30.157
11/07/01	15:02:57	1.2173	-0.352	30.155
11/07/01	15:03:01	1.2877	-0.357	30.155
11/07/01	15:03:05	1.3622	-0.360	30.153
11/07/01	15:03:10	1.4412	-0.361	30.155
11/07/01	15:03:15	1.5248	-0.366	30.155
11/07/01	15:03:20	1.6133	-0.374	30.155
11/07/01	15:03:26	1.7072	-0.380	30.151
11/07/01	15:03:32	1.8065	-0.383	30.153
11/07/01	15:03:38	1.9118	-0.387	30.153
11/07/01	15:03:45	2.0233	-0.387	30.153
11/07/01	15:03:52	2.1415	-0.394	30.151
11/07/01	15:04:00	2.2667	-0.402	30.151
11/07/01	15:04:07	2.3992	-0.403	30.151
11/07/01	15:04:16	2.5397	-0.407	30.151
11/07/01	15:04:25	2.6885	-0.408	30.151
11/07/01	15:04:34	2.8460	-0.420	30.127
11/07/01	15:04:44	3.0127	-0.420	30.129
11/07/01	15:04:54	3.1793	-0.422	30.135
11/07/01	15:05:04	3.3460	-0.425	30.139
11/07/01	15:05:14	3.5127	-0.428	30.139
11/07/01	15:05:24	3.6793	-0.429	30.141
11/07/01	15:05:34	3.8460	-0.423	30.143
11/07/01	15:05:44	4.0127	-0.431	30.141
11/07/01	15:05:54	4.1793	-0.420	30.145
11/07/01	15:06:04	4.3460	-0.424	30.145
11/07/01	15:06:14	4.5127	-0.434	30.143
11/07/01	15:06:24	4.6793	-0.434	30.143
11/07/01	15:06:34	4.8460	-0.437	30.147
11/07/01	15:06:44	5.0127	-0.439	30.147
11/07/01	15:06:54	5.1793	-0.437	30.147
11/07/01	15:07:04	5.3460	-0.435	30.149
11/07/01	15:07:14	5.5127	-0.437	30.149
11/07/01	15:07:24	5.6793	-0.439	30.151
11/07/01	15:07:34	5.8460	-0.437	30.151
11/07/01	15:07:44	6.0127	-0.440	30.151
11/07/01	15:07:54	6.1793	-0.436	30.151
11/07/01	15:08:04	6.3460	-0.440	30.151
[illegible]	[illegible]	6.5127	-0.440	30.151

11/07/01	15:08:24	6.6793	-0.428	30.174
11/07/01	15:08:34	6.8460	-0.429	30.176
11/07/01	15:08:44	7.0127	-0.429	30.174

DR 824A 5S



[1] - PROBE 261

[0] - Barometric

TITLE Cecil Field Site 56/58 SPECAP PROJECT NO. N2039 BOOK

Work continued from Page 145

Test #2 Recovery R312-25

Time	Depth
1200 00	7.88
10	7.70
20	6.82
30	6.45
40	6.14
50	5.95
1301 00	5.85
10	5.74
20	5.70
30	5.65
40	5.54
50	5.53
1302 00	5.50
10	5.
20	5.80

end test - Good Test per WCW

1315 Decon equipment & ~~[illegible]~~ load up truck

1334 Depart for Duran Canal

FDW in Drum 3125-55

1345 Stop at Field House (Restroom)

1400 Return to Flight Line Gate Bldg 824A - 55 & set up

1432 PID 0.4 ppm B'ckg 0.0

Work continued to Page 147

SIGNATURE Elena Rodriguez DATE 4/7/01

WITNESS DATE

TITLE Cecil Field Site 56/57 SPECAP PROJECT NO. N2 BOOK

Work continued from Page

Well 55

TD = 16.8 ft. WL 8.20 ft.

Submersible pump

Probe at 15 ft. probe reading 6

PULSE 8.20

1458 Prepare for test

Test 1 - DR 824A-55

Time	Depth	Time	Depth
1502 00	8.20	1505 00	9.63
10	8.70	10	9.64
20	8.95	20	9.64
30	9.05	30	9.65
40	9.15	40	9.67
50	9.25	50	9.68
1503 00	9.32	1506 00	9.68
10	9.39	10	9.69
20	9.43	20	9.69
30	9.43	30	9.70
40	9.49	40	9.70
50	9.51	50	9.71
1504 00	9.55	1507 00	9.71
10	9.57	15	9.71
20	9.59	30	9.72
30	9.60	45	9.72
40	9.61	1508 00	9.72
50	9.63	30	9.72
		1509 00	

Work continued to Page

SIGNATURE Elena Rodriguez DATE 11/7/01

WITNESS DATE

TITLE SPECAP - Site 57/58 PROJECT NO. N0037
B824A-55 BOOK

Work continued from Page 147

Slot #2 . R.824A-55

TIME	Depth	TIME	DEPTH
1514.00	9.72	1518 00	8.26
10	9.25	10	8.25
20	8.98	20	8.25
30	8.72	30	8.25
40	8.64	40	8.25
50	8.58	50	8.24
1515 00	8.52	end test	
10	8.47		
20	8.44	1520 Decon equipment	
30	8.41	Pick up truck	
40	8.40	review Hermiddle.	
50	8.37		
1516 00	8.35	1530 Arrive at	
10	8.33	Field House	
20	8.32	Unload trash.	
30	8.30	Store room &	
40	8.30	office were	
50	8.29	locked. Will	
1517 00	8.28	decon submersible	
10	8.28	tomorrow.	
20	8.27		
30	8.27	1545 Arrive at	
40	8.26	Laydown Area.	
50	8.26		

Work continued to Page 149

SIGNATURE Elena Rodriguez DATE 11/7/01
WITNESS DATE

TITLE Cecil Field SPECAP - Site 57/58 PROJECT NO. N0
B824A-55 BOOK

Work continued from Page 148

All purge water into drum # 824A-95.
Notify Mew that test went well.
1550 Depart CF for TRANS

Work continued to Page

SIGNATURE Elena Rodriguez DATE 11/7/01
WITNESS DATE

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT	JOB NUMBER CTO 0078 0039 DS0 09H 110
SUBJECT	
BASED ON	DRAWING NUMBER
BY R. Miller / CHECKED BY TR 12/7/01	APPROVED BY / DATE

CEF-824A-12I

Well diameter = 2"
Open interval = ~~10~~ 5'
Storage coefficient = 0.15
Well-loss coefficient = 1

Thickness of aquifer = 81'
Depth to bedrock (AVG) = 87'
Depth to water (AVG) = 6'
87' − 6' = 81'

Static water level = 8.42'
Depth to water during test = 9.22'
S = 0.243 m @ 6.8417 min
S = 0.243 m × 3.281 ft/m = 0.797' 8.42' + 0.797' = 9.22'

Length of test = 6.8417 min × 1 hr / 60 min = 1.14×10^{-1} hr

Pumping rate = 1.19 gpm
1 gal @ 1 min = 1 gpm
3 gal @ 2 min 10 sec = 3 gal ÷ 2.17 min = 1.38 gpm
AVG = 1.19 gpm

ı-Situ Inc. Hermit 3000

eport generated: 11/08/01 15:53:16
eport from file: C:\Win-Situ\Data\SN45671 2001-11-08 113439 DR 824A 12I .bin
ataMgr Version 3.70

erial number: 00045671
irmware Version 7.10
nit name: HERMIT 3000

est name: DR 824A 12I

est defined on: 11/08/01 09:02:13
est started on: 11/08/01 11:34:39
est stopped on: 11/08/01 11:42:14
'est extracted on: 11/08/01 15:49:43

ıata gathered using Logarithmic testing
Maximum time between data points: 0.1667 Minutes.
Number of data samples: 95

:OTAL DATA SAMPLES 95

:hannel number [1]
Measurement type: Pressure
Channel name: PROBE PXD 260
Linearity: 0.0430000
Scale: 50.0110000
Offset: -0.0350000
Warmup: 50
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Meters H2O
Referenced on: test start
Pressure head at reference: 8.396 Meters H2O
Baro Reference: 14.842 PSI

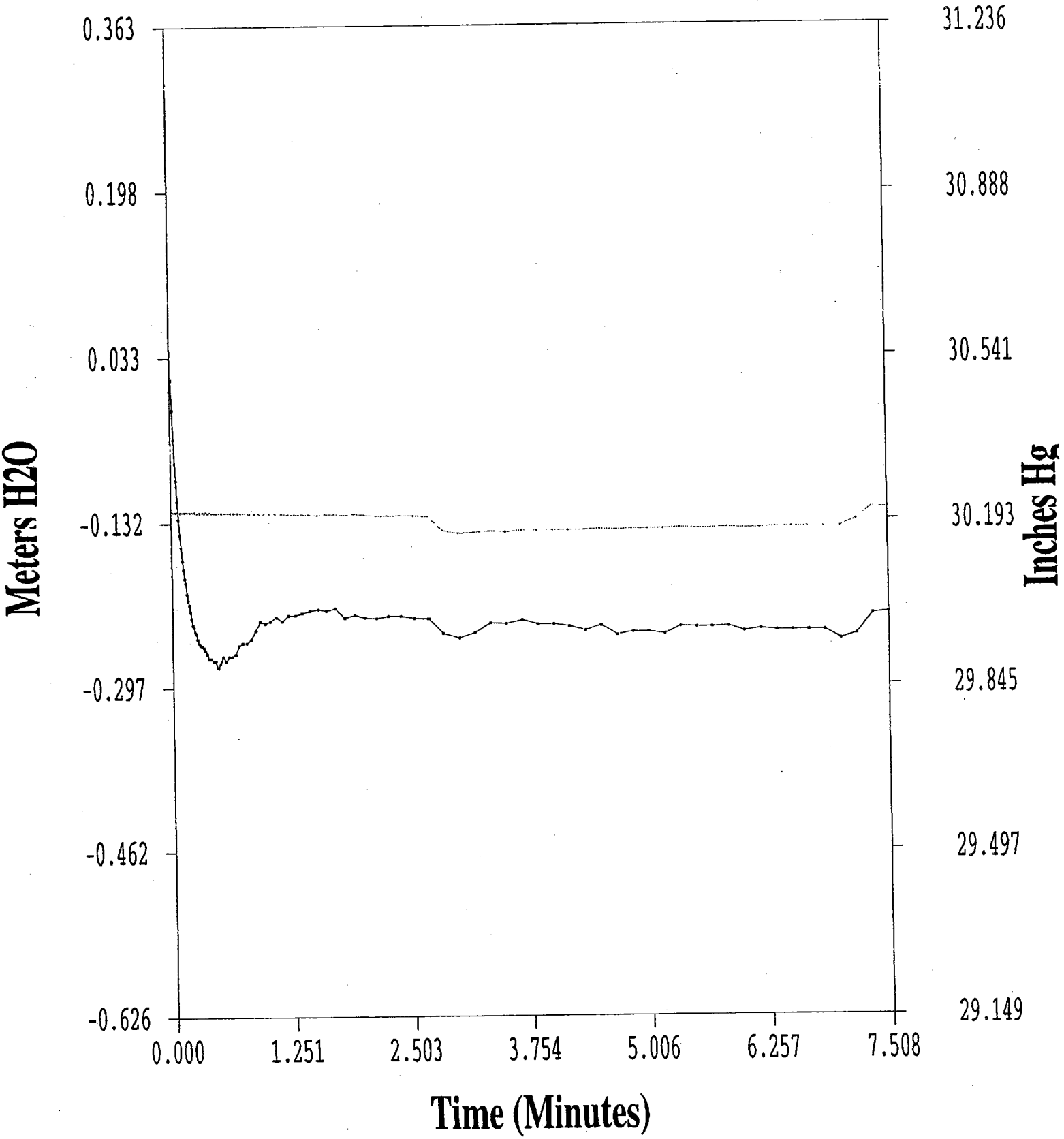
Channel number [0]
Measurement type: Barometric Pressure
Channel name: Barometric
Linearity: 0.0000000
Scale: 0.0000000
Offset: 0.0000000
Warmup: 50

Date	Time	ET (min)	Chan[1] Meters H2O	Chan[0] Inches Hg
11/08/01	11:34:39	0.0000	0.000	30.218
11/08/01	11:34:39	0.0113	0.011	30.218
11/08/01	11:34:40	0.0227	-0.018	30.216
11/08/01	11:34:41	0.0340	-0.047	30.216
11/08/01	11:34:41	0.0453	-0.071	30.216
11/08/01	11:34:42	0.0567	-0.089	30.216
11/08/01	11:34:43	0.0680	-0.110	30.218
11/08/01	11:34:43	0.0793	-0.128	30.216
11/08/01	11:34:44	0.0907	-0.144	30.216
11/08/01	11:34:45	0.1020	-0.157	30.216
11/08/01	11:34:45	0.1133	-0.170	30.216
11/08/01	11:34:46	0.1247	-0.179	30.216
11/08/01	11:34:47	0.1360	-0.188	30.216
11/08/01	11:34:47	0.1473	-0.192	30.216
11/08/01	11:34:48	0.1587	-0.203	30.216
11/08/01	11:34:49	0.1700	-0.210	30.216
11/08/01	11:34:49	0.1813	-0.214	30.216
11/08/01	11:34:50	0.1927	-0.221	30.216
11/08/01	11:34:51	0.2040	-0.227	30.216
			-0.234	30.216

1/08/01	11:34:52	0.2267	-0.236	30.216
1/08/01	11:34:53	0.2383	-0.240	30.216
1/08/01	11:34:54	0.2508	-0.243	30.216
1/08/01	11:34:54	0.2640	-0.248	30.214
1/08/01	11:34:55	0.2780	-0.252	30.214
1/08/01	11:34:56	0.2928	-0.254	30.216
1/08/01	11:34:57	0.3085	-0.254	30.214
1/08/01	11:34:58	0.3252	-0.256	30.216
1/08/01	11:34:59	0.3428	-0.259	30.214
1/08/01	11:35:00	0.3615	-0.262	30.216
1/08/01	11:35:01	0.3813	-0.267	30.214
1/08/01	11:35:03	0.4023	-0.267	30.216
1/08/01	11:35:04	0.4245	-0.270	30.214
1/08/01	11:35:05	0.4480	-0.270	30.214
1/08/01	11:35:07	0.4728	-0.276	30.214
1/08/01	11:35:08	0.4992	-0.272	30.214
1/08/01	11:35:10	0.5272	-0.265	30.214
1/08/01	11:35:12	0.5568	-0.270	30.214
1/08/01	11:35:14	0.5882	-0.265	30.214
1/08/01	11:35:16	0.6213	-0.265	30.214
1/08/01	11:35:18	0.6565	-0.263	30.214
11/08/01	11:35:20	0.6938	-0.254	30.214
11/08/01	11:35:23	0.7333	-0.252	30.214
11/08/01	11:35:25	0.7752	-0.252	30.214
11/08/01	11:35:28	0.8195	-0.248	30.212
11/08/01	11:35:30	0.8665	-0.240	30.212
11/08/01	11:35:33	0.9163	-0.231	30.212
11/08/01	11:35:37	0.9690	-0.233	30.212
11/08/01	11:35:40	1.0248	-0.231	30.212
11/08/01	11:35:44	1.0840	-0.226	30.212
11/08/01	11:35:47	1.1467	-0.231	30.212
11/08/01	11:35:51	1.2130	-0.225	30.210
11/08/01	11:35:56	1.2833	-0.225	30.210
11/08/01	11:36:00	1.3578	-0.223	30.210
11/08/01	11:36:05	1.4368	-0.220	30.210
11/08/01	11:36:10	1.5205	-0.219	30.208
11/08/01	11:36:15	1.6090	-0.220	30.210
11/08/01	11:36:21	1.7028	-0.218	30.210
11/08/01	11:36:27	1.8022	-0.228	30.208
11/08/01	11:36:33	1.9075	-0.225	30.210
11/08/01	11:36:40	2.0190	-0.228	30.208
11/08/01	11:36:47	2.1372	-0.228	30.206
11/08/01	11:36:54	2.2623	-0.226	30.206
11/08/01	11:37:02	2.3948	-0.226	30.206
11/08/01	11:37:11	2.5353	-0.228	30.206
11/08/01	11:37:20	2.6842	-0.229	30.204
11/08/01	11:37:29	2.8417	-0.244	30.174
11/08/01	11:37:39	3.0083	-0.248	30.167
11/08/01	11:37:49	3.1750	-0.243	30.169
11/08/01	11:37:59	3.3417	-0.234	30.171
11/08/01	11:38:09	3.5083	-0.235	30.169
11/08/01	11:38:19	3.6750	-0.231	30.174
11/08/01	11:38:29	3.8417	-0.235	30.174
11/08/01	11:38:39	4.0083	-0.235	30.174
11/08/01	11:38:49	4.1750	-0.238	30.174
11/08/01	11:38:59	4.3417	-0.242	30.174
11/08/01	11:39:09	4.5083	-0.237	30.176
11/08/01	11:39:19	4.6750	-0.246	30.174
11/08/01	11:39:29	4.8417	-0.243	30.176
11/08/01	11:39:39	5.0083	-0.243	30.176
11/08/01	11:39:49	5.1750	-0.246	30.176
11/08/01	11:39:59	5.3417	-0.238	30.178
11/08/01	11:40:09	5.5083	-0.239	30.176
11/08/01	11:40:19	5.6750	-0.239	30.176
11/08/01	11:40:29	5.8417	-0.238	30.178
11/08/01	11:40:39	6.0083	-0.243	30.176
11/08/01	11:40:49	6.1750	-0.241	30.176
11/08/01	11:40:59	6.3417	-0.243	30.178
11/08/01	11:41:09	6.5083	-0.243	30.178

1/08/01	11:41:29	6.8417	-0.243	30.178
1/08/01	11:41:39	7.0083	-0.251	30.178
1/08/01	11:41:49	7.1750	-0.247	30.192
1/08/01	11:41:59	7.3417	-0.226	30.218
1/08/01	11:42:09	7.5083	-0.225	30.216

DR 824A 12I



[1] - PROBE PXD 260

[0] - Barometric

TITLE Site 57/58 SPECAP NO 39

Bldg 824A - 12I

Work continued from Page —

0830 Dave meets with New to discuss yesterday's Hydrogen Program in remainder of tests parameters

0950 Depart for Cecil Field in F150 Elena Rodriguez (813-5429) Dave Seifert

Weather: 60s-70s°F clear sunny

Plan of Day: Perform SPECAP test on 824A-12I, then begin SPECAP tests at B. 271 (CP0121).

1040 Arrive at laydown area & pickup empty drum.

1050 Arrive at Field House & load additional equipment. Calibrate PID. Precap 64.2 Postcal 100 ppm.

1055 Depart for B 824A. Stopped Base Security for badges

1100 Arrive at 824A-12I & setup for SPECAP TEST. PID = 6.9 Background 0.0.

1114 TD = 39.52 WL = 8.41 Submersible pump set at 38'

Work continued to Page 151

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

SIGNATURE Elena Rodriguez DATE 11/8/01

WITNESS DATE

TITLE Cecil Field NO 39

Work continued from Page 150

Probe at 36.5' approx. Static water level 8.42

Test #1 SDR 824A-12I

Time	Depth	Time	Depth
		11 39 00	9.39
1135 00	842	15	9.40
10	901	30	9.41
20	945	35	9.41
30	952	11 40 00	9.41
40	954	20	9.41
50	954	40	9.40
1136 00	942	11 41 00	9.40
10	940	20	9.41
20	937	40	9.41
30	938	11 42 00	9.41
40	938		
50	940		
1137 00	942		
10	942		
20	942		
30	941		
40	942		
50	942		
1138 00	941		
15	938		
30	939		
45	938		

Work continued to Page 152

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

SIGNATURE Elena Rodriguez DATE 11/8/01

WITNESS DATE

TITLE 824A-12I SPECAP PROJECT NO. N0059 BOOK

Work continued from Page 151

Test #2 R 824A 12I

Time	Depth	Time	Depth
11 44 00	9.41	1155 00	8.50
10	8.45	10	8.15
20	8.15	20	8.05
30	8.20	30	8.32
40	8.35	40	8.42
50	8.40	50	8.43
11 45 00	8.42	11 56 00	8.44
10	8.43	10	8.44
20	8.43	20	8.44
30	8.43	30	8.44
40	8.43	40	8.44
50	8.43	50	8.44
11 46 00	8.43	11 57 00	8.43

Data logger didnot start. end test

11 58 Decon & load truck.
Allpurpose water in drum 824A-2
Depart site
12 15 Arrive at drum cancel & drop off drum
12 30 Break for lunch at Rae's Diner.
13 00 Depart Rae's Diner, Arrive at B.27 (See CTO 12 Book)

Work continued to Page

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

SIGNATURE [illegible] DATE 11/8/01

WITNESS DATE

TITLE PROJECT NO. BOOK

Work continued from Page

Work continued to Page

SCIENTIFIC BINDERY PRODUCTIONS CHICAGO 60605

SIGNATURE DATE

WITNESS DATE

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE _____ OF _____

CLIENT	JOB NUMBER CTO 0078 0039 DSO 094 110
SUBJECT	
BASED ON	DRAWING NUMBER
BY R. Miller / CHECKED BY TR 12/7/01	APPROVED BY / DATE

CEF-B312-02S

Well diameter = 2"
Open interval = 10'
Storage coef. = 0.15
Well-loss coef. = 1

Thickness of aquifer = ~~82'~~ 91
Depth to Bedrock (avg) = ~~87'~~ 96
Depth to water (avg) = 5'
~~87' - 5' = 82'~~ 96' - 5' = 91'

Static water level = 6.20'
Depth to water during test = 7.45'
S = 0.380 m @ 7.0127 min
S = 0.380 m × 3.281 ft/m = 1.25' 6.20' + 1.25' = 7.45'

Length of test = 0.117 hr
7.0127 min × 1 hr / 60 min = 1.17×10^{-1} hr

Pumping rate = 0.65 gpm
1 gal @ 1.5 min = 0.67 gpm
5 gal @ 8 min = 0.63 gpm
AVG = 0.65

```
*****************************************************************
DETERMINATION OF AQUIFER PROPERTIES BASED ON ANALYSIS OF
                 SPECIFIC CAPACITY TESTS
*****************************************************************
```

Copied from: Bradbury, K. R. and Rothschild, E. R., 1985. A computerized technique for estimating the hydraulic conductivity of aquifers from specific capacity data, Ground Water, 23(2), pp. 240-246.

WELL NUMBER CEF-B312-02S

```
WELL DIAMETER (IN) =          2
STATIC WATER LEVEL (FT) =     6.2
DEPTH TO WATER DURING TEST (FT) =          7.45
THE LENGTH OF THE TEST (HR) =              .117
PUMPING RATE (GPM) =          .65
THICKNESS OF AQUIFER (FT) =                91
OPEN INTERVAL (FT) =          5
STORAGE COEFFICIENT =         .15
WELL-LOSS COEFFICIENT =       1
```

```
SPECIFIC CAPACITY (GPM/FT) =  .5200009

TRANSMISSIVITY:  (FT*FT/SEC) =  1.488505E-02
                 (FT*FT/DAY) =  1286.068
                 (GAL/DAY/FT) =  9620.434
           USING A STORAGE COEFFICIENT =  .15
           NUMBER OF ITERATIONS =  3

HYDRAULIC CONDUCTIVITY:  (FT/SEC) =  1.63572E-04
                         (FT/DAY) =  14.13262
                         (GAL/DAY/FT*FT) =  93.89031

THE NUMBER OF WELLS IN THIS RECORD IS  1
```

In-Situ Inc. Hermit 3000

Report generated: 11/08/01 08:26:19
Report from file: C:\Win-Situ\Data\SN45671 2001-11-07 124939 DR 312 2S .bin
DataMgr Version 3.70

Serial number: 00045671
Firmware Version 7.10
Unit name: HERMIT 3000

Test name: DR 312 2S

Test defined on: 11/07/01 12:17:21
Test started on: 11/07/01 12:49:39
Test stopped on: 11/07/01 12:58:22
Test extracted on: 11/08/01 08:01:58

Data gathered using Logarithmic testing
Maximum time between data points: 0.1667 Minutes.
Number of data samples: 103

TOTAL DATA SAMPLES 103

Channel number [1]
Measurement type: Pressure
Channel name: PROBE 261
Linearity: 0.0596000
Scale: 14.0748000
Offset: -0.1421000
Warmup: 50
Specific gravity: 1.000
Mode: Surface
User-defined reference: 0.000 Meters H2O
Referenced on: test start
Pressure head at reference: 1.986 Meters H2O
Baro Reference: 14.828 PSI

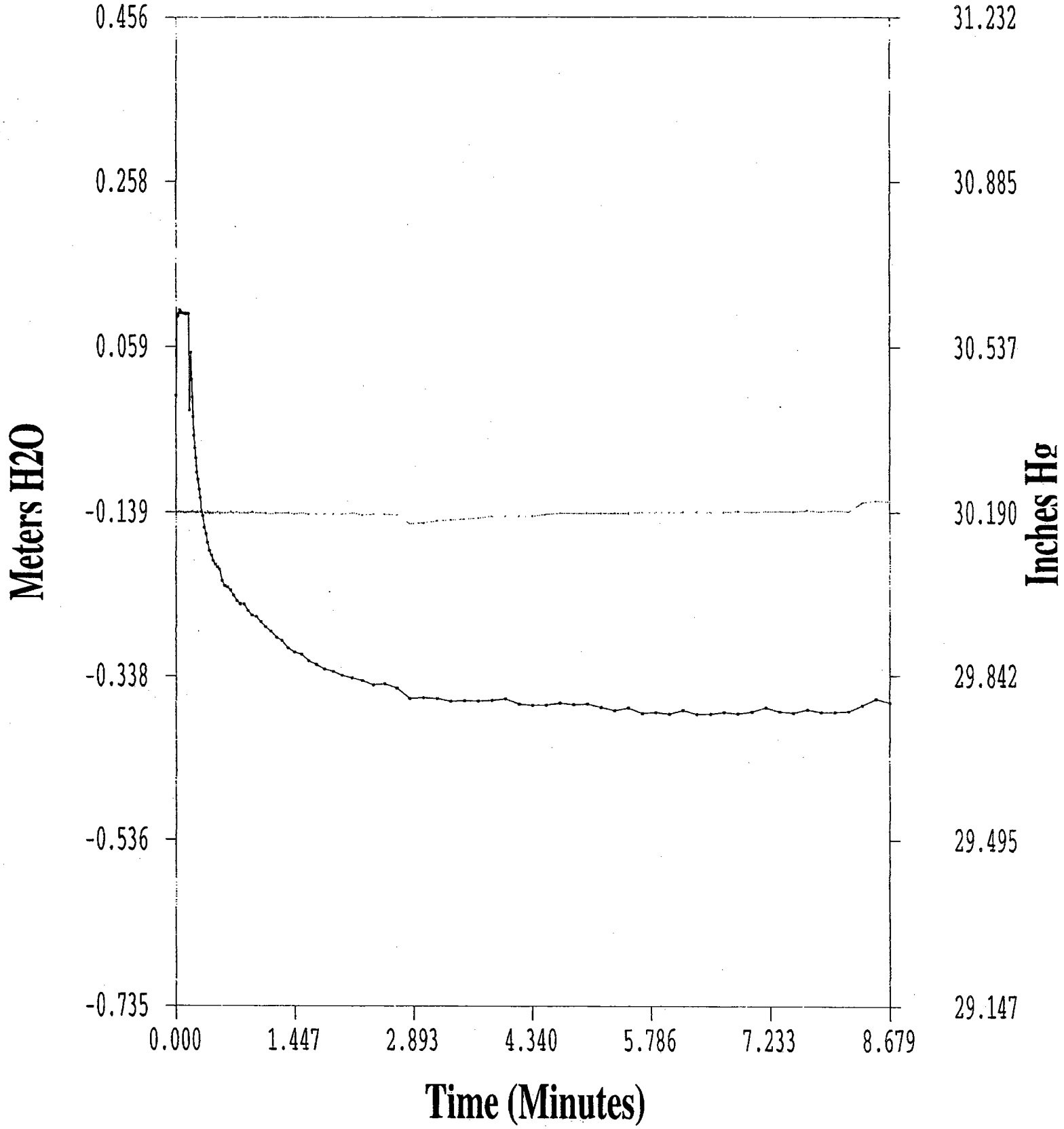
Channel number [0]
Measurement type: Barometric Pressure
Channel name: Barometric
Linearity: 0.0000000
Scale: 0.0000000
Offset: 0.0000000
Warmup: 50

Date	Time	ET (min)	Chan[1] Meters H2O	Chan[0] Inches Hg
11/07/01	12:49:39	0.0000	0.000	30.190
11/07/01	12:49:39	0.0110	0.099	30.190
11/07/01	12:49:40	0.0220	0.097	30.190
11/07/01	12:49:40	0.0330	0.100	30.190
11/07/01	12:49:41	0.0440	0.105	30.190
11/07/01	12:49:42	0.0550	0.103	30.190
11/07/01	12:49:42	0.0660	0.101	30.190
11/07/01	12:49:43	0.0770	0.101	30.190
11/07/01	12:49:44	0.0880	0.101	30.190
11/07/01	12:49:44	0.0990	0.100	30.188
11/07/01	12:49:45	0.1100	0.100	30.190
11/07/01	12:49:46	0.1210	0.100	30.188
11/07/01	12:49:46	0.1320	0.100	30.190
11/07/01	12:49:47	0.1430	0.100	30.190
11/07/01	12:49:48	0.1540	0.100	30.190
11/07/01	12:49:48	0.1650	-0.018	30.190
11/07/01	12:49:49	0.1760	0.052	30.190
11/07/01	12:49:50	0.1870	0.019	30.190
11/07/01	12:49:50	0.1980	-0.002	30.192
11/07/01	12:49:51	[illegible]	[illegible]	[illegible]

11/07/01	12:49:52	0.2200	-0.048	30.190
11/07/01	12:49:52	0.2310	-0.063	30.190
11/07/01	12:49:53	0.2427	-0.075	30.190
11/07/01	12:49:54	0.2552	-0.092	30.190
11/07/01	12:49:55	0.2683	-0.100	30.190
11/07/01	12:49:55	0.2823	-0.112	30.190
11/07/01	12:49:56	0.2972	-0.122	30.190
11/07/01	12:49:57	0.3128	-0.139	30.188
11/07/01	12:49:58	0.3295	-0.144	30.188
11/07/01	12:49:59	0.3472	-0.157	30.188
11/07/01	12:50:00	0.3658	-0.165	30.188
11/07/01	12:50:02	0.3857	-0.175	30.190
11/07/01	12:50:03	0.4067	-0.185	30.188
11/07/01	12:50:04	0.4288	-0.191	30.188
11/07/01	12:50:06	0.4523	-0.198	30.188
11/07/01	12:50:07	0.4772	-0.203	30.188
11/07/01	12:50:09	0.5035	-0.206	30.190
11/07/01	12:50:10	0.5315	-0.209	30.188
11/07/01	12:50:12	0.5612	-0.222	30.188
11/07/01	12:50:14	0.5925	-0.229	30.188
11/07/01	12:50:16	0.6257	-0.230	30.188
11/07/01	12:50:18	0.6608	-0.234	30.190
11/07/01	12:50:20	0.6982	-0.240	30.188
11/07/01	12:50:23	0.7377	-0.247	30.190
11/07/01	12:50:25	0.7795	-0.250	30.188
11/07/01	12:50:28	0.8238	-0.250	30.188
11/07/01	12:50:31	0.8708	-0.258	30.188
11/07/01	12:50:34	0.9207	-0.264	30.190
11/07/01	12:50:37	0.9733	-0.266	30.188
11/07/01	12:50:40	1.0292	-0.272	30.188
11/07/01	12:50:44	1.0883	-0.278	30.188
11/07/01	12:50:48	1.1510	-0.284	30.186
11/07/01	12:50:52	1.2173	-0.291	30.188
11/07/01	12:50:56	1.2877	-0.296	30.188
11/07/01	12:51:00	1.3622	-0.304	30.188
11/07/01	12:51:05	1.4412	-0.309	30.186
11/07/01	12:51:10	1.5248	-0.312	30.188
11/07/01	12:51:15	1.6133	-0.320	30.186
11/07/01	12:51:21	1.7072	-0.324	30.186
11/07/01	12:51:27	1.8065	-0.329	30.186
11/07/01	12:51:33	1.9118	-0.332	30.186
11/07/01	12:51:40	2.0233	-0.337	30.186
11/07/01	12:51:47	2.1415	-0.340	30.188
11/07/01	12:51:55	2.2667	-0.343	30.184
11/07/01	12:52:02	2.3992	-0.348	30.186
11/07/01	12:52:11	2.5397	-0.347	30.186
11/07/01	12:52:20	2.6885	-0.352	30.184
11/07/01	12:52:29	2.8460	-0.365	30.165
11/07/01	12:52:39	3.0127	-0.364	30.167
11/07/01	12:52:49	3.1793	-0.365	30.171
11/07/01	12:52:59	3.3460	-0.368	30.174
11/07/01	12:53:09	3.5127	-0.367	30.176
11/07/01	12:53:19	3.6793	-0.368	30.178
11/07/01	12:53:29	3.8460	-0.367	30.182
11/07/01	12:53:39	4.0127	-0.365	30.182
11/07/01	12:53:49	4.1793	-0.371	30.182
11/07/01	12:53:59	4.3460	-0.373	30.182
11/07/01	12:54:09	4.5127	-0.372	30.186
11/07/01	12:54:19	4.6793	-0.370	30.188
11/07/01	12:54:29	4.8460	-0.372	30.188
11/07/01	12:54:39	5.0127	-0.371	30.188
11/07/01	12:54:49	5.1793	-0.375	30.188
11/07/01	12:54:59	5.3460	-0.379	30.188
11/07/01	12:55:09	5.5127	-0.375	30.188
11/07/01	12:55:19	5.6793	-0.382	30.190
11/07/01	12:55:29	5.8460	-0.381	30.190
11/07/01	12:55:39	6.0127	-0.383	30.190
11/07/01	12:55:49	6.1793	-0.378	30.190
11/07/01	12:55:59	6.3460	-0.383	30.190
11/07/01	12:56:09	6.5127	[illegible]	[illegible]

11/07/01	12:56:19	6.6793	-0.381	30.190
11/07/01	12:56:29	6.8460	-0.383	30.192
11/07/01	12:56:39	7.0127	-0.380	30.190
11/07/01	12:56:49	7.1793	-0.375	30.192
11/07/01	12:56:59	7.3460	-0.380	30.192
11/07/01	12:57:09	7.5127	-0.382	30.192
11/07/01	12:57:19	7.6793	-0.378	30.194
11/07/01	12:57:29	7.8460	-0.381	30.192
11/07/01	12:57:39	8.0127	-0.381	30.194
11/07/01	12:57:49	8.1793	-0.380	30.192
11/07/01	12:57:59	8.3460	-0.373	30.210
11/07/01	12:58:09	8.5127	-0.365	30.214
11/07/01	12:58:19	8.6793	-0.370	30.212

DR 312 2S



· [1] - PROBE 261 · [0] - Barometric

TITLE Cecil Field

B312-2S Spec cap

PROJECT NO.

BOOK N0039

Work continued from Page 143

~~Time Drawdown~~ - Back at static

1220:20	6.27
30	6.33
40	6.34
50	6.34
1221 00	6.35
10	6.35
20	6.36
30	6.36
40	6.36
50	6.36
12:22 00	6.36
10	6.36
20	6.36
30	6.36
40	6.36
50	6.36
1223 00	6.36
10	6.36
20	6.36
30	6.36
40	end test

~~50~~ due to no drawdown

Switch to submersible pump

Work continued to Page

SIGNATURE Elena Rodriguez

WITNESS

DATE 11/7/01

DATE

TITLE Cecil Field

B312-Spec cap

PROJECT NO. NC

BOOK

Work continued from Page 144

Depth of probe 3 ft

Back at static: 6.20

1245			
1250	10		
	20	7.89	
	30	7.78	
	40	7.74	
	50	7.42	
1251	00	7.47	
	10	7.52	
	20	7.57	
	30	7.62	
	40	7.65	
	50	7.68	
1252	00	7.71	
	10	7.73	
	20	7.74	
	30	7.76	
	40	7.77	
	50	7.78	
1253	00	7.79	
	10	7.80	
	20	7.81	
	30	7.81	
	40	7.82	
	50	7.82	
1254	00		7.82
	10		7.83
	20		7.83
	30		7.83
	40		7.84
	50		7.84
1255	00		7.84
	10		7.85
	20		7.86
	30		7.86
	40		7.87
	50		7.88
1256	00		7.88
	15		7.88
	30		7.88
	45		7.88
1257	00		7.88
	30		7.88
1258	00		7.88
	30		7.88

end test

Work continued to Page 141

SIGNATURE Elena Rodriguez

WITNESS

DATE 11/7/01

DATE

TITLE Lewis Field
Site 56/58 SPECAP
PROJECT NO. N2039
BOOK

Work continued from Page 145

Test #2 - Recovery R312-25

Time	Depth
1200 00	7.88
10	7.70
20	6.82
30	6.45
40	6.14
50	5.95
1301 00	5.85
10	5.74
20	5.70
30	5.65
40	5.54
50	5.53
1302 00	5.50
10	5.
20	5.80

end test - Good Test per Mike

1315 Decon equipment & ~~[illegible]~~ load up truck

1334 Depart for Dorr Canal

FDW in Dorr 3/21-55

1345 Stop at Field House (Restroom)

1400 Return to Flight Line Gate

Bldg 824A - 55 & set up

1432 PID = 0.4 ppm Bckg 0.0

Work continued to Page 147

LEGAL PROCEEDINGS CHICAGO 60605

SIGNATURE Elena Rodriguez
WITNESS
DATE 4/7/01
DATE

TITLE Lewis Field
Site 56/58 SPECAP
PROJECT NO. N2
BOOK 824A

Work continued from Page

Well 55

TD = 16.8 ft. WL 8.20

Submersible pump

Probe at 15 ft. probe reading 6

WL 8.20

1458 Prepare for test

Test 1 - DR 824A-55

Time	Depth	Time	Depth
1502 00	8.20	1505 00	9.63
10	8.70	10	9.64
20	8.95	20	9.64
30	9.05	30	9.65
40	9.15	40	9.65
50	9.25	50	9.68
1503 00	9.32	1506 00	9.68
10	9.39	10	9.69
20	9.43	20	9.69
30	9.43	30	9.70
40	9.49	40	9.70
50	9.51	50	9.71
1504 00	9.55	1507 00	9.71
10	9.57	15	9.71
20	9.59	30	9.72
30	9.60	45	9.72
40	9.61	1508 00	9.72
50	9.63	30	9.72
		1509 00	

Work continued to Page

LEGAL PROCEEDINGS CHICAGO 60605

SIGNATURE Elena Rodriguez
WITNESS
DATE 11/7/01
DATE

TITLE SPECAP - Site 57/58 PROJECT NO. N0051
B824A-53 BOOK

Work continued from Page 147

Lot #2 R.824A-53

TIME	Depth	TIME	DEPTH
1514.00	9.72	1518.00	8.26
10	9.25	10	8.25
20	8.98	20	8.25
30	8.72	30	8.25
40	8.64	40	8.25
50	8.58	50	8.24
1515 00	8.52	end test	
10	8.47		
20	8.44	1520: Decon equipment	
30	8.41	Pick up truck	
40	8.40	review Hermitdale.	
1516 00	8.37	1530: Arrive at	
10	8.35	Field house	
20	8.33	Unload trash.	
30	8.32	Store room &	
40	8.30	office were	
50	8.30	locked. Will	
1517 00	8.29	decon sub mersible	
10	8.28	tomorrow.	
20	8.28		
30	8.27	1544: Arrive at	
40	8.27	Laydown Area.	
50	8.26		

Work continued to Page 149

SIGNATURE Elena Rodriguez DATE 11/7/01
WITNESS DATE

TITLE Cecil Field SPECAP - Site 57/58 PROJECT NO. N0
B824A-53 BOOK

Work continued from Page 148

All purge water into drum # 824A-95. Notify Mew that test went well.

1550 Depart CF for TRMS

Work continued to Page

ARCHIVE BINDERY PRODUCTIONS CHICAGO 60605

SIGNATURE Elena Rodriguez DATE 11/7/01
WITNESS DATE

APPENDIX D

TEMPORARY WELL FREE-PRODUCT MEASUREMENTS

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NAS Cecil Field
Project No.: 0039
Location: Bldg. 824A, Site 57
Personnel: Dave Siefken
Weather Conditions: Sunny, Slight Cloud Cover
Measuring Device: Solinst Oil/Water Interface Probe
Tidally Influenced: Yes ___ No ✓
Remarks: Pre Survey Measurements

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments PID Reading
CEF-824A-TW01	09/18/01	0815		9.38	5.86			211
TW02				12.83	5.83			17
TW03				12.25	5.89			14
TW04				12.66	6.42			1530
TW05				12.17	5.76			11.3
TW06				12.91	5.71			449
TW07				12.30	5.64			715
TW08				12.71	5.57			158
TW09				12.44	5.51			645
TW10				12.61	5.53			238
TW11				12.76	5.57			701
TW12				12.24	5.51			101
TW13				12.64	5.68			555
TW14				12.50	7.90			89
TW15		0855		12.33	5.86			720

09/09/01 → 09/18/01 13.31" of Rainfall

All measurements taken from Northside of Riser

* All measurements to the nearest 0.01 foot

Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NAS Cecil Field
Project No.: 0039
Location: B. 824A Site 57
Personnel: Tom Dickson/Dave Siefkin
Weather Conditions: Sunny Clear 70's
Measuring Device: Solinst Oil/Water Interface Probe
Tidally Influenced: Yes ___ No X
Remarks: Pre Survey measurements

	Well or Piezometer Number	Date 2001	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)* Average	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
0.5 ags	824A-TW01	10/04	0730	~~6.64 TD~~	9.38	6.64	odor		No Product
0.5 ags	824A-TW02	↓	↓		12.83	7.23	↓		"
Even	824A-TW03				12.17	7.20			"
0.5 ags	TW06				12.91	7.15	Strong odor		"
"	TW07				12.30	7.05	Med. Strong odor		"
"	TW08				12.71	6.99	Med. Strong odor		"
"	TW09				12.44	6.90	"		"
0.5 ags	TW10				12.61	7.00	"		"
Even	TW11				12.76	7.21	7.13-7.21 0.8		Product
0.5 ags	TW12				12.44	6.95	—		No Product
1" ags	TW13				12.64	7.21	—		"
2" ags	TW03		0800		12.25	7.90	7.22-7.90 0.68		Product
1" ags	TW04				12.66	7.35	7.25-7.35 0.10		Product
Even	TW14				12.50	7.18	Strong odor		
2" ags	TW15				12.33	7.27	Med. odor		
	TW16	Abandon Refusal							
Even	TW17				12.77	7.13			
Even	TW18				13.22	7.15			
3" bgs	TW19				13.40	6.82	Well Casing 3" Below Surface		
Even	TW20	↓	0815		13.60	7.23			

Note: System On
All measurements taken from Northside of Riser

* All measurements to the nearest 0.01 foot

APPENDIX E

DATA VALIDATION SUMMARIES

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. SPERANZA**	**DATE:**	**DECEMBER 12, 2001**
FROM:	**DOUGLAS S. SCHLOER**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA / PAH / TPH / DISSOLVED GASES**
CTO 078, NAS CECIL FIELD
SDG: F11089

SAMPLES: 8 / Groundwater / VOA / PAH / TPH

CEF-824A-GW-17I-01	CEF-824A-GW-15I-01	CEF-824A-GW-16D-01
CEF-824A-GW-14S-01	CEF-824A-GW-19S-01	CEF-824A-DUP4
CEF-293-GW-14-A3	CEF-57/58-IDW-GW-002	

3 / Groundwater / VOA / PAH / TPH / DISSOLVED GASES

CEF-293-GW-13-A3	CEF-293-GW-14-A3	CEF-B312-GW-02S-02

1/ Groundwater / TPH

CEF-312IS-GW-01SA-03

OVERVIEW

The sample set for CTO 078, NAS Cecil Field; SDG F11089 consists of eleven (11) groundwater samples. The samples were analyzed for volatile organic compounds (VOC), polynuclear aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH) and dissolved gases (methane, ethane and ethene). One field duplicate pair was included in this SDG: CEF-293-GW-13-A3 and CEF-824A-DUP4.

The samples were collected by TetraTech NUS on October 10th and 11th, 2001 and analyzed by Accutest Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using U.S. EPA Test Methods for Evaluating Solid Wastes (SW-846) Methods 8260B, 8310, Florida State-Total Recoverable Petroleum Hydrocarbon (FL-TRPH) and the Robert S. Kerr Standard Operating Procedure (RSK-SOP) 175 analytical and reporting protocol. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • Initial/continuing calibrations
* • Laboratory method blank results
* • Field Duplicate Results
* • Detection Limits

The symbol (*) indicates that 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. Results as reported by the laboratory are presented in Appendix B.

The text of this report is formulated to address only gross noncompliances resulting in the rejection of data and the elimination of false positives.

Volatile

No data quality control issues were noted.

PAH

A calibration verification percent Difference (%D) exceeded the 15% quality control limit on one analytical detector for anthracene on 10/10/01, on instrument DAD. No action was taken based on this noncompliance as only a limited data review is being performed.

TPH

Due to the presence of petroleum hydrocarbon at elevated concentrations, samples CEF-824A-GW-14S-01 and CEF-B312-GW-02S-02 were analyzed and reported at 2X and 4X dilutions, respectively.

DISSOLVED GASES

A calibration verification %D exceeded the 15% quality control limit for ethane on 10/4/01, on instrument VOA5, at 15:32. No action was taken based on this noncompliance as only a limited data review is being performed.

EXECUTIVE SUMMARY

Laboratory Performance Issues: The calibration verification of anthracene and ethane failed to meet quality control criteria. However, no data qualifiers were required.

Other Factors Affecting Data Quality: None

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines "Navy IRCDQM" (Sept 1999). 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)."

Tetra Tech NUS

Douglas S. Schloer
Chemist/Data Validator

Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

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

FIELD DUPLICATE SUMMARY
NAS CECIL FIELD CTO 078
11089

Analytical Fraction	Compound	CEF-293-GW-13-A3 (UG/L)	CEF-824A-DUP4 (UG/L)	RPD
PAH	1-Methylnaphthalene	1.4 J	2	NC
	2-Methylnaphthalene	1.6 J	2.4	NC
TPH	Petroleum	404	372	8.2

ND - Compound not detected.
NC - RPD not calculated.

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

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
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-293-GW-13-A3			CEF-293-GW-14-A3			CEF-293-GW-4-A3			CEF-57/58/IDW-GW-002		
SAMPLE DATE:	10/02/01			10/02/01			10/02/01			10/02/01		
LABORATORY ID:	F11089-6			F11089-8			F11089-7			F11089-11		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	2	U		2	U		2	U		2.6		
1,1-DICHLOROETHENE	2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	2	U		2	U		2	U		2	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2		
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	2	U		2	U		2	U		2	U	
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		2	U	
TOLUENE	2	U		2	U		2	U		2	U	
TOTAL XYLENES	6	U		6	U		6	U		6	U	
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-293-GW-13-A3			CEF-293-GW-14-A3			CEF-293-GW-4-A3			CEF-57/58/IDW-GW-002		
SAMPLE DATE:	10/02/01			10/02/01			10/02/01			10/02/01		
LABORATORY ID:	F11089-6			F11089-8			F11089-7			F11089-11		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
TRICHLOROETHENE	2	U		2	U		2	U		2	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-824A-DUP4			CEF-824A-GW-14S-01			CEF-824A-GW-15I-01			CEF-824A-GW-16D-01		
SAMPLE DATE:	10/02/01			10/01/01			10/01/01			10/01/01		
LABORATORY ID:	F11089-9			F11089-4			F11089-2			F11089-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	CEF-293-GW-13-A3											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		4	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		4	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		4	U		2	U		2	U	
1,1-DICHLOROETHANE	2	U		97.2			2	U		2	U	
1,1-DICHLOROETHENE	2	U		5			2	U		2	U	
1,2-DICHLOROETHANE	2	U		4	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		4	U		2	U		2	U	
2-BUTANONE	10	U		20	U		10	U		10	U	
2-HEXANONE	10	U		20	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		20	U		10	U		10	U	
ACETONE	50	U		100	U		50	U		50	U	
BENZENE	1	U		2	U		1	U		1	U	
BROMODICHLOROMETHANE	2	U		4	U		2	U		2	U	
BROMOFORM	2	U		4	U		2	U		2	U	
BROMOMETHANE	5	U		10	U		5	U		5	U	
CARBON DISULFIDE	10	U		20	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		4	U		2	U		2	U	
CHLOROBENZENE	2	U		4	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		4	U		2	U		2	U	
CHLOROETHANE	5	U		10	U		5	U		5	U	
CHLOROFORM	2	U		4	U		0.92	J	P	2	U	
CHLOROMETHANE	5	U		10	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		139			2	U		2	U	
CIS-1,3-DICHLOROPROPENE	2	U		4	U		2	U		2	U	
ETHYLBENZENE	2	U		4.4			1	J	P	2	U	
METHYLENE CHLORIDE	5	U		10	U		5	U		5	U	
STYRENE	2	U		4	U		2	U		2	U	
TETRACHLOROETHENE	2	U		4	U		1.5	J	P	2	U	
TOLUENE	2	U		4.9			2	U		2	U	
TOTAL XYLENES	6	U		4.9	J	P	5.2	J	P	6	U	
TRANS-1,2-DICHLOROETHENE	2	U		4	U		2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-824A-DUP4			CEF-824A-GW-14S-01			CEF-824A-GW-15I-01			CEF-824A-GW-16D-01		
SAMPLE DATE:	10/02/01			10/01/01			10/01/01			10/01/01		
LABORATORY ID:	F11089-9			F11089-4			F11089-2			F11089-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	CEF-293-GW-13-A3											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		4	U		2	U		2	U	
TRICHLOROETHENE	2	U		9			2	U		2	U	
VINYL CHLORIDE	1	U		2	U		1	U		1	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-824A-GW-17I-01	CEF-824A-GW-19S-01	CEF-B312-GW-02S-02	/ /
SAMPLE DATE:	10/01/01	10/01/01	10/02/01	
LABORATORY ID:	F11089-1	F11089-5	F11089-12	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U				
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U				
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U				
1,1-DICHLOROETHANE	2	U		2	U		14.3					
1,1-DICHLOROETHENE	2	U		2	U		2	U				
1,2-DICHLOROETHANE	2	U		2	U		2	U				
1,2-DICHLOROPROPANE	2	U		2	U		2	U				
2-BUTANONE	10	U		10	U		10	U				
2-HEXANONE	10	U		10	U		10	U				
4-METHYL-2-PENTANONE	10	U		10	U		10	U				
ACETONE	50	U		50	U		50	U				
BENZENE	1	U		1	U		1	U				
BROMODICHLOROMETHANE	2	U		2	U		2	U				
BROMOFORM	2	U		2	U		2	U				
BROMOMETHANE	5	U		5	U		5	U				
CARBON DISULFIDE	10	U		10	U		10	U				
CARBON TETRACHLORIDE	2	U		2	U		2	U				
CHLOROBENZENE	2	U		2	U		2	U				
CHLORODIBROMOMETHANE	2	U		2	U		2	U				
CHLOROETHANE	5	U		5	U		5	U				
CHLOROFORM	2	U		2	U		2	U				
CHLOROMETHANE	5	U		5	U		5	U				
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U				
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U				
ETHYLBENZENE	2	U		2	U		2	U				
METHYLENE CHLORIDE	5	U		5	U		5	U				
STYRENE	2	U		2	U		2	U				
TETRACHLOROETHENE	2	U		2	U		2	U				
TOLUENE	2	U		2	U		2	U				
TOTAL XYLENES	4.3	J	P	6	U		6	U				
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U				

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-824A-GW-17I-01	CEF-824A-GW-19S-01	CEF-B312-GW-02S-02	
SAMPLE DATE:	10/01/01	10/01/01	10/02/01	/ /
LABORATORY ID:	F11089-1	F11089-5	F11089-12	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U				
TRICHLOROETHENE	2	U		2	U		2	U				
VINYL CHLORIDE	1	U		1	U		1	U				

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-293-GW-13-A3	CEF-293-GW-14-A3	CEF-293-GW-4-A3	CEF-57/58/IDW-GW-002
SAMPLE DATE:	10/02/01	10/02/01	10/02/01	10/02/01
LABORATORY ID:	F11089-6	F11089-8	F11089-7	F11089-11
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		2.0	U		2.0	U		2.0	U	

SAMPLE NUMBER:	CEF-824A-DUP4			CEF-824A-GW-14S-01			CEF-824A-GW-15I-01			CEF-824A-GW-16D-01		
SAMPLE DATE:	10/02/01			10/01/01			10/01/01			10/01/01		
LABORATORY ID:	F11089-9			F11089-4			F11089-2			F11089-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	CEF-293-GW-13-A3											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		4	U		2.0	U		2.0	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-824A-GW-17I-01			CEF-824A-GW-19S-01			CEF-B312-GW-02S-02			/ /		
SAMPLE DATE:	10/01/01			10/01/01			10/02/01					
LABORATORY ID:	F11089-1			F11089-5			F11089-12					
QC_TYPE:	NORMAL			NORMAL			NORMAL					
% SOLIDS:	0.0 %			0.0 %			0.0 %			100.0 %		
UNITS:	UG/L			UG/L			UG/L					
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		2.0	U		2.0	U				

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-293-GW-13-A3			CEF-293-GW-14-A3			CEF-293-GW-4-A3			CEF-57/58/IDW-GW-002		
SAMPLE DATE:	10/02/01			10/02/01			10/02/01			10/02/01		
LABORATORY ID:	F11089-6			F11089-8			F11089-7			F11089-11		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	1.4	J	P	2	U		2.2	U		2	U	
2-METHYLNAPHTHALENE	1.6	J	P	2	U		2.2	U		2	U	
ACENAPHTHENE	4	U		4	U		4.4	U		4	U	
ACENAPHTHYLENE	4	U		4	U		4.4	U		4	U	
ANTHRACENE	2	U		2	U		2.2	U		2	U	
BENZO(A)ANTHRACENE	0.2	U		0.2	U		0.22	U		0.2	U	
BENZO(A)PYRENE	0.2	U		0.2	U		0.22	U		0.2	U	
BENZO(B)FLUORANTHENE	0.2	U		0.2	U		0.22	U		0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U		0.2	U		0.22	U		0.2	U	
BENZO(K)FLUORANTHENE	0.2	U		0.2	U		0.22	U		0.2	U	
CHRYSENE	2	U		2	U		2.2	U		2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U		0.2	U		0.22	U		0.2	U	
FLUORANTHENE	2	U		2	U		2.2	U		2	U	
FLUORENE	2	U		2	U		2.2	U		2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U		0.2	U		0.22	U		0.2	U	
NAPHTHALENE	2	U		2.9			2.2	U		2	U	
PHENANTHRENE	2	U		2	U		2.2	U		2	U	
PYRENE	2	U		2	U		2.2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-824A-DUP4	CEF-824A-GW-14S-01	CEF-824A-GW-15I-01	CEF-824A-GW-16D-01
SAMPLE DATE:	10/02/01	10/01/01	10/01/01	10/01/01
LABORATORY ID:	F11089-9	F11089-4	F11089-2	F11089-3
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:	CEF-293-GW-13-A3			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2			2	U		2			2.2	U	
2-METHYLNAPHTHALENE	2.4			2	U		2	U		2.2	U	
ACENAPHTHENE	4	U		4	U		4	U		4.4	U	
ACENAPHTHYLENE	4	U		4	U		4	U		4.4	U	
ANTHRACENE	2	U		2	U		2	U		2.2	U	
BENZO(A)ANTHRACENE	0.2	U		0.2	U		0.2	U		0.22	U	
BENZO(A)PYRENE	0.2	U		0.2	U		0.2	U		0.22	U	
BENZO(B)FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.22	U	
BENZO(G,H,I)PERYLENE	0.2	U		0.2	U		0.2	U		0.22	U	
BENZO(K)FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.22	U	
CHRYSENE	2	U		2	U		2	U		2.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U		0.2	U		0.2	U		0.22	U	
FLUORANTHENE	2	U		2	U		2	U		2.2	U	
FLUORENE	2	U		2	U		2	U		2.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U		0.2	U		0.2	U		0.22	U	
NAPHTHALENE	2	U		2	U		2.4			2.2	U	
PHENANTHRENE	2	U		2	U		2	U		2.2	U	
PYRENE	2	U		2	U		2	U		2.2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-824A-GW-17I-01	CEF-824A-GW-19S-01	CEF-B312-GW-02S-02	
SAMPLE DATE:	10/01/01	10/01/01	10/02/01	/ /
LABORATORY ID:	F11089-1	F11089-5	F11089-12	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U		2	U		2	U				
2-METHYLNAPHTHALENE	2.2	U		2	U		2	U				
ACENAPHTHENE	4.4	U		4	U		4	U				
ACENAPHTHYLENE	4.4	U		4	U		4	U				
ANTHRACENE	2.2	U		2	U		2	U				
BENZO(A)ANTHRACENE	0.22	U		0.2	U		0.2	U				
BENZO(A)PYRENE	0.22	U		0.2	U		0.2	U				
BENZO(B)FLUORANTHENE	0.22	U		0.2	U		0.2	U				
BENZO(G,H,I)PERYLENE	0.22	U		0.2	U		0.2	U				
BENZO(K)FLUORANTHENE	0.22	U		0.2	U		0.2	U				
CHRYSENE	2.2	U		2	U		2	U				
DIBENZO(A,H)ANTHRACENE	0.22	U		0.2	U		0.2	U				
FLUORANTHENE	2.2	U		2	U		2	U				
FLUORENE	2.2	U		2	U		2	U				
INDENO(1,2,3-CD)PYRENE	0.22	U		0.2	U		0.2	U				
NAPHTHALENE	2.2	U		2	U		8.3					
PHENANTHRENE	2.2	U		2	U		2	U				
PYRENE	2.2	U		2	U		2	U				

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-293-GW-13-A3	CEF-293-GW-14-A3	CEF-293-GW-4-A3	CEF-57/58/IDW-GW-002
SAMPLE DATE:	10/02/01	10/02/01	10/02/01	10/02/01
LABORATORY ID:	F11089-6	F11089-8	F11089-7	F11089-11
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	MG/L	MG/L	MG/L	MG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.404			0.944			0.28	U		0.301		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-824A-DUP4			CEF-824A-GW-14S-01			CEF-824A-GW-15I-01			CEF-824A-GW-16D-01		
SAMPLE DATE:	10/02/01			10/01/01			10/01/01			10/01/01		
LABORATORY ID:	F11089-9			F11089-4			F11089-2			F11089-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:	CEF-293-GW-13-A3											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.372			2.01			1.21			0.28	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-824A-GW-17I-01	CEF-824A-GW-19S-01	CEF-B312-GW-02S-02	/ /
SAMPLE DATE:	10/01/01	10/01/01	10/02/01	
LABORATORY ID:	F11089-1	F11089-5	F11089-12	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	MG/L	MG/L	MG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.533			0.28	U		3.1					

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-293-GW-13-A3			CEF-293-GW-4-A3			CEF-312IS-GW-01SA-03			CEF-B312-GW-02S-02		
SAMPLE DATE:	10/02/01			10/02/01			10/02/01			10/02/01		
LABORATORY ID:	F11089-6			F11089-7			F11089-13			F11089-12		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
DISSOLVED GASES												
ETHANE	1	U		1	U		1	U		1	U	
ETHENE	1	U		1	U		1	U		1	U	
METHANE	4.8			90.2			0.5	U		734		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-57/58/IDW-GW-002		
Lab Sample ID:	F11089-11	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006406.D	1	10/04/01	JG	n/a	n/a	VB274
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	2.6	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	2.0	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-57/58/IDW-GW-002		
Lab Sample ID:	F11089-11	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	96%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-13-A3		
Lab Sample ID:	F11089-6	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006424.D	1	10/08/01	JG	n/a	n/a	VB275
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-13-A3		
Lab Sample ID:	F11089-6	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	105%		80-120%
460-00-4	4-Bromofluorobenzene	94%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP4		
Lab Sample ID:	F11089-9	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:.	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006427.D	1	10/08/01	JG	n/a	n/a	VB275
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP4		
Lab Sample ID:	F11089-9	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	97%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-14-A3		
Lab Sample ID:	F11089-8	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006426.D	1	10/08/01	JG	n/a	n/a	VB275
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-14-A3		
Lab Sample ID:	F11089-8	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	94%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-4-A3		
Lab Sample ID:	F11089-7	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006425.D	1	10/08/01	JG	n/a	n/a	VB275
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-4-A3		
Lab Sample ID:	F11089-7	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	105%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-14S-01		
Lab Sample ID:	F11089-4	Date Sampled:	10/01/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006455.D	2	10/09/01	JG	n/a	n/a	VB276
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	100	ug/l	
71-43-2	Benzene	ND	2.0	ug/l	
75-27-4	Bromodichloromethane	ND	4.0	ug/l	
75-25-2	Bromoform	ND	4.0	ug/l	
108-90-7	Chlorobenzene	ND	4.0	ug/l	
75-00-3	Chloroethane	ND	10	ug/l	
67-66-3	Chloroform	ND	4.0	ug/l	
75-15-0	Carbon disulfide	ND	20	ug/l	
56-23-5	Carbon tetrachloride	ND	4.0	ug/l	
75-34-3	1,1-Dichloroethane	97.2	4.0	ug/l	
75-35-4	1,1-Dichloroethylene	5.0	4.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	4.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	4.0	ug/l	
124-48-1	Dibromochloromethane	ND	4.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	139	4.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	4.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	4.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	4.0	ug/l	
100-41-4	Ethylbenzene	4.4	4.0	ug/l	
591-78-6	2-Hexanone	ND	20	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	20	ug/l	
74-83-9	Methyl bromide	ND	10	ug/l	
74-87-3	Methyl chloride	ND	10	ug/l	
75-09-2	Methylene chloride	ND	10	ug/l	
78-93-3	Methyl ethyl ketone	ND	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	4.0	ug/l	
100-42-5	Styrene	ND	4.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	4.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	4.0	ug/l	
127-18-4	Tetrachloroethylene	ND	4.0	ug/l	
108-88-3	Toluene	4.9	4.0	ug/l	
79-01-6	Trichloroethylene	9.0	4.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	ug/l	
1330-20-7	Xylene (total)	4.9	12	ug/l	J

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-14S-01		
Lab Sample ID:	F11089-4	Date Sampled:	10/01/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	97%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-15I-01		
Lab Sample ID:	F11089-2	Date Sampled:	10/01/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006421.D	1	10/08/01	JG	n/a	n/a	VB275
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	0.92	2.0	ug/l	J
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	1.0	2.0	ug/l	J
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	1.5	2.0	ug/l	J
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	5.2	6.0	ug/l	J

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-15I-01		
Lab Sample ID:	F11089-2	Date Sampled:	10/01/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	94%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-16D-01		
Lab Sample ID:	F11089-3	Date Sampled:	10/01/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006422.D	1	10/08/01	JG	n/a	n/a	VB275
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-16D-01		
Lab Sample ID:	F11089-3	Date Sampled:	10/01/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	97%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-17I-01		
Lab Sample ID:	F11089-1	Date Sampled:	10/01/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006420.D	1	10/08/01	JG	n/a	n/a	VB275
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	4.3	6.0	ug/l	J

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-17I-01		
Lab Sample ID:	F11089-1	Date Sampled:	10/01/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	106%		80-120%
460-00-4	4-Bromofluorobenzene	99%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-19S-01		
Lab Sample ID:	F11089-5	Date Sampled:	10/01/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006423.D	1	10/08/01	JG	n/a	n/a	VB275
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-19S-01		
Lab Sample ID:	F11089-5	Date Sampled:	10/01/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	104%		80-120%
460-00-4	4-Bromofluorobenzene	95%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-02S-02		
Lab Sample ID:	F11089-12	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006457.D	1	10/09/01	JG	n/a	n/a	VB276
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	14.3	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-02S-02		
Lab Sample ID:	F11089-12	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/03/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	97%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-13-A3		
Lab Sample ID:	F11089-6	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009098.D	1	10/10/01	MRE	10/05/01	OP3964	GAA395
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	1.4	2.0	ug/l	J
91-57-6	2-Methylnaphthalene	1.6	2.0	ug/l	J
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	56%		33-141%
92-94-4	p-Terphenyl	59%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-14-A3		
Lab Sample ID:	F11089-8	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009101.D	1	10/10/01	MRE	10/05/01	OP3964	GAA395
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	2.9	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	81%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-4-A3		
Lab Sample ID:	F11089-7	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009100.D	1	10/10/01	MRE	10/05/01	OP3964	GAA395
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		33-141%
92-94-4	p-Terphenyl	80%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-57/58/IDW-GW-002		
Lab Sample ID:	F11089-11	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009034.D	1	10/08/01	MRE	10/04/01	OP3951	GAA393
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	72%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP4		
Lab Sample ID:	F11089-9	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009104.D	1	10/10/01	MRE	10/05/01	OP3964	GAA395
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	2.0	2.0	ug/l	
91-57-6	2-Methylnaphthalene	2.4	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		33-141%
92-94-4	p-Terphenyl	73%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-14S-01		
Lab Sample ID:	F11089-4	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009096.D	1	10/10/01	MRE	10/05/01	OP3964	GAA395
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		33-141%
92-94-4	p-Terphenyl	81%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-15I-01		
Lab Sample ID:	F11089-2	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009094.D	1	10/10/01	MRE	10/05/01	OP3964	GAA395
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	2.4	2.0	ug/l	
90-12-0	1-Methylnaphthalene	2.0	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	78%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-16D-01		
Lab Sample ID:	F11089-3	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009095.D	1	10/10/01	MRE	10/05/01	OP3964	GAA395
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		33-141%
92-94-4	p-Terphenyl	74%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-17I-01		
Lab Sample ID:	F11089-1	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009093.D	1	10/10/01	MRE	10/05/01	OP3964	GAA395
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		33-141%
92-94-4	p-Terphenyl	64%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-19S-01		
Lab Sample ID:	F11089-5	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009097.D	1	10/10/01	MRE	10/05/01	OP3964	GAA395
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		33-141%
92-94-4	p-Terphenyl	77%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-02S-02		
Lab Sample ID:	F11089-12	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009105.D	1	10/10/01	MRE	10/05/01	OP3964	GAA395
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	8.3	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		33-141%
92-94-4	p-Terphenyl	69%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-13-A3		
Lab Sample ID:	F11089-6	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17423.D	1	10/09/01	ME	10/05/01	OP3957	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.404	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	97%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-14-A3		
Lab Sample ID:	F11089-8	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17427.D	1	10/10/01	ME	10/05/01	OP3957	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.944	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-4-A3		
Lab Sample ID:	F11089-7	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17424.D	1	10/09/01	ME	10/05/01	OP3957	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-57/58/IDW-GW-002		
Lab Sample ID:	F11089-11	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17397.D	1	10/09/01	ME	10/04/01	OP3953	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.301	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP4		
Lab Sample ID:	F11089-9	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17428.D	1	10/10/01	ME	10/05/01	OP3957	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.372	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-14S-01		
Lab Sample ID:	F11089-4	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17436.D	2	10/10/01	ME	10/05/01	OP3957	GOP671
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	2.01	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-15I-01		
Lab Sample ID:	F11089-2	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17418.D	1	10/09/01	ME	10/05/01	OP3957	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.21	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	108%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-16D-01		
Lab Sample ID:	F11089-3	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17419.D	1	10/09/01	ME	10/05/01	OP3957	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-17I-01		
Lab Sample ID:	F11089-1	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17417.D	1	10/09/01	ME	10/05/01	OP3957	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.533	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	108%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-19S-01		
Lab Sample ID:	F11089-5	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17421.D	1	10/09/01	ME	10/05/01	OP3957	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-02S-02		
Lab Sample ID:	F11089-12	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17437.D	4	10/10/01	ME	10/05/01	OP3957	GOP671
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	3.10	1.1	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	102%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-13-A3		
Lab Sample ID:	F11089-6	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001098.D	1	10/04/01	RA	n/a	n/a	GXY63
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	4.80	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-4-A3		
Lab Sample ID:	F11089-7	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001100.D	1	10/04/01	RA	n/a	n/a	GXY63
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	90.2	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-312IS-GW-01SA-03		
Lab Sample ID:	F11089-13	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001102.D	1	10/04/01	RA	n/a	n/a	GXY63
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	ND	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-02S-02		
Lab Sample ID:	F11089-12	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001101.D	1	10/04/01	RA	n/a	n/a	GXY63
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	734	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **MR. M. SPERANZA** **DATE: NOVEMBER 28, 2001**

FROM: **SETH STAFFEN** **CC: DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA / PAH / TPH / OVG**
CTO 078 – NAS CECIL FIELD
SDG: F11076

SAMPLES:

10/Aqueous/ VOA/PAH/TPH

CEF-293-GW-1-01	CEF-293-GW-15D-01	CEF-293-GW-20-A3
CEF-293-GW-8-01	CEF-824A-DUP3	CEF-824A-GW-01S-02
CEF-824A-GW-04S-03	CEF-824A-07S-02	CEF-824A-GW-08S-02
CEF-824A-GW-18S-01		

4/Aqueous/OVG

CEF-293-GW-20-A3	CEF-824A-DUP3	CEF-824A-GW-04S-03
CEF-824A-GW-07S-02		

OVERVIEW

The sample sets for CTO 078, SDG F11076, Naval Air Station (NAS) Cecil Field; Florida consists of ten (10) aqueous environmental samples that were analyzed for Target Compound List (TCL) volatile organic compounds, polynuclear aromatic hydrocarbons, total petroleum hydrocarbons, and dissolved gases. One field duplicate pair was included within this SDG: CEF-824A-GW-04S-03 / CEF-824A-DUP3.

The samples were collected by Tetra Tech NUS on September 30 and October 1, 2001 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 Methods 8260B, 8310, Florida-PRO, and RSKSOP 147/175 analytical and reporting protocol. 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

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.

The text of this report is formulated to address only gross noncompliances resulting in the rejection of data and the elimination of false positives.

VOLATILE FRACTION

All quality control parameters were met for this fraction.

PAH FRACTION

The continuing calibrations on 09/10/01 at 1434 and 10/09/01 at 1735 contained a %D that exceeded the 15% quality control limit for anthracene on one detector. No qualification action was taken because the other detector was compliant and the exceedance was not a gross noncompliance.

TPH FRACTION

All quality control parameters were met for this fraction.

DISSOLVED GASES

All quality control parameters were met for this fraction.

ADDITIONAL COMMENTS

Positive results below the reporting limit were qualified as estimated, J, due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999) and the NFESC guidelines "Navy IRCDQM" (September 1999). 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)."

Seth Staffen

Environmental Scientist/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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

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
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-293-GW-1-01			CEF-293-GW-15D-01			CEF-293-GW-20-A3			CEF-293-GW-8-01		
SAMPLE DATE:	09/30/01			09/30/01			10/01/01			09/30/01		
LABORATORY ID:	F11076-8			F11076-10			F11076-3			F11076-9		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	2	U		2	U		1.6	J	P	2	U	
1,1-DICHLOROETHENE	2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		0.87	J	P	1	U	
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	2	U		2	U		2	U		2	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		2	U		136			2	U	
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	2	U		2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER	2	U		2	U		2	U		2	U	
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		2	U	
TOLUENE	2	U		2	U		2	U		2	U	
TOTAL XYLENES	6	U		6	U		6	U		6	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-293-GW-1-01			CEF-293-GW-15D-01			CEF-293-GW-20-A3			CEF-293-GW-8-01		
SAMPLE DATE:	09/30/01			09/30/01			10/01/01			09/30/01		
LABORATORY ID:	F11076-8			F11076-10			F11076-3			F11076-9		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE QF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,2-DICHLOROETHENE	2	U		2	U		0.52	J	P	2	U	
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
TRICHLOROETHENE	2	U		2	U		3.3			2	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-824A-DUP3			CEF-824A-GW-01S-02			CEF-824A-GW-04S-03			CEF-824A-GW-07S-02		
SAMPLE DATE:	10/01/01			09/30/01			10/01/01			10/01/01		
LABORATORY ID:	F11076-4			F11076-7			F11076-2			F11076-1		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	CEF-824A-GW-04S-03											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	2	U		2	U		2	U		1.1	J	P
1,1-DICHLOROETHENE	2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	50	U		50	U		50	U		50	U	
BENZENE	242			1	U		254			3.8		
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	2	U		2	U		2	U		2	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	20.7			2	U		27.8			2.3		
METHYL TERT-BUTYL ETHER	2	U		2	U		2	U		2	U	
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		2	U	
TOLUENE	1.7	J	P	2	U		2.3			2	U	
TOTAL XYLENES	51.9			6	U		71.6			2.8	J	P

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-824A-DUP3	CEF-824A-GW-01S-02	CEF-824A-GW-04S-03	CEF-824A-GW-07S-02
SAMPLE DATE:	10/01/01	09/30/01	10/01/01	10/01/01
LABORATORY ID:	F11076-4	F11076-7	F11076-2	F11076-1
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:	CEF-824A-GW-04S-03			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
TRICHLOROETHENE	2	U		2	U		2	U		4.8		
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-824A-GW-08S-02	CEF-824A-GW-18S-01		
SAMPLE DATE:	09/30/01	09/30/01	/ /	/ /
LABORATORY ID:	F11076-5	F11076-6		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U							
1,1,2,2-TETRACHLOROETHANE	2	U		2	U							
1,1,2-TRICHLOROETHANE	2	U		2	U							
1,1-DICHLOROETHANE	9.9			2	U							
1,1-DICHLOROETHENE	33.8			2	U							
1,2-DICHLOROETHANE	2	U		2	U							
1,2-DICHLOROPROPANE	2	U		2	U							
2-BUTANONE	10	U		10	U							
2-HEXANONE	10	U		10	U							
4-METHYL-2-PENTANONE	10	U		10	U							
ACETONE	50	U		50	U							
BENZENE	1.5			1	U							
BROMODICHLOROMETHANE	2	U		2	U							
BROMOFORM	2	U		2	U							
BROMOMETHANE	5	U		5	U							
CARBON DISULFIDE	10	U		10	U							
CARBON TETRACHLORIDE	2	U		2	U							
CHLOROBENZENE	2	U		2	U							
CHLORODIBROMOMETHANE	2	U		2	U							
CHLOROETHANE	5	U		5	U							
CHLOROFORM	2	U		2	U							
CHLOROMETHANE	5	U		5	U							
CIS-1,2-DICHLOROETHENE	0.94	J	P	2	U							
CIS-1,3-DICHLOROPROPENE	2	U		2	U							
ETHYLBENZENE	2	U		2	U							
METHYL TERT-BUTYL ETHER	2	U		2	U							
METHYLENE CHLORIDE	5	U		5	U							
STYRENE	2	U		2	U							
TETRACHLOROETHENE	2	U		2	U							
TOLUENE	2	U		2	U							
TOTAL XYLENES	1.9	J	P	6	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-824A-GW-08S-02			CEF-824A-GW-18S-01			/ /			/ /		
SAMPLE DATE:	09/30/01			09/30/01								
LABORATORY ID:	F11076-5			F11076-6								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	UG/L			UG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,2-DICHLOROETHENE	2	U		2	U							
TRANS-1,3-DICHLOROPROPENE	2	U		2	U							
TRICHLOROETHENE	2	U		2	U							
VINYL CHLORIDE	1	U		1	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-293-GW-1-01	CEF-293-GW-15D-01	CEF-293-GW-20-A3	CEF-293-GW-8-01
SAMPLE DATE:	09/30/01	09/30/01	10/01/01	09/30/01
LABORATORY ID:	F11076-8	F11076-10	F11076-3	F11076-9
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U		2.2	U		2	U		2.2	U	
2-METHYLNAPHTHALENE	2.2	U		2.2	U		2	U		2.2	U	
ACENAPHTHENE	4.4	U		4.4	U		4	U		4.4	U	
ACENAPHTHYLENE	4.4	U		4.4	U		4	U		4.4	U	
ANTHRACENE	2.2	U		2.2	U		2	U		2.2	U	
BENZO(A)ANTHRACENE	0.22	U		0.22	U		0.2	U		0.22	U	
BENZO(A)PYRENE	0.22	U		0.22	U		0.2	U		0.22	U	
BENZO(B)FLUORANTHENE	0.22	U		0.22	U		0.2	U		0.22	U	
BENZO(G,H,I)PERYLENE	0.22	U		0.22	U		0.2	U		0.22	U	
BENZO(K)FLUORANTHENE	0.22	U		0.22	U		0.2	U		0.22	U	
CHRYSENE	2.2	U		2.2	U		2	U		2.2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U		0.22	U		0.2	U		0.22	U	
FLUORANTHENE	2.2	U		2.2	U		2	U		2.2	U	
FLUORENE	2.2	U		2.2	U		2	U		2.2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U		0.22	U		0.2	U		0.22	U	
NAPHTHALENE	2.2	U		2.2	U		1.2	J	P	2.2		
PHENANTHRENE	2.2	U		2.2	U		2	U		2.2	U	
PYRENE	2.2	U		2.2	U		2	U		2.2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-824A-DUP3			CEF-824A-GW-01S-02			CEF-824A-GW-04S-03			CEF-824A-GW-07S-02		
SAMPLE DATE:	10/01/01			09/30/01			10/01/01			10/01/01		
LABORATORY ID:	F11076-4			F11076-7			F11076-2			F11076-1		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	CEF-824A-GW-04S-03											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	7.4			2	U		7.8			25.5		
2-METHYLNAPHTHALENE	8.6			2	U		8.9			30.4		
ACENAPHTHENE	8.8	U		2.4	J	P	8.8	U		4	U	
ACENAPHTHYLENE	4.4	U		4	U		4.4	U		4	U	
ANTHRACENE	2.2	U		2	U		2.2	U		2	U	
BENZO(A)ANTHRACENE	0.22	U		0.2	U		0.22	U		0.2	U	
BENZO(A)PYRENE	0.22	U		0.2	U		0.22	U		0.2	U	
BENZO(B)FLUORANTHENE	0.22	U		0.2	U		0.22	U		0.2	U	
BENZO(G,H,I)PERYLENE	0.22	U		0.2	U		0.22	U		0.2	U	
BENZO(K)FLUORANTHENE	0.22	U		0.2	U		0.22	U		0.2	U	
CHRYSENE	2.2	U		2	U		2.2	U		2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U		0.2	U		0.22	U		0.2	U	
FLUORANTHENE	2.2	U		2	U		2.2	U		2	U	
FLUORENE	2.2	U		2	U		2.2	U		2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U		0.2	U		0.22	U		0.2	U	
NAPHTHALENE	30.8			2	U		30.3			13.9		
PHENANTHRENE	2.2	U		2	U		2.2	U		2	U	
PYRENE	2.2	U		2	U		2.2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-824A-GW-08S-02	CEF-824A-GW-18S-01	/ /	/ /
SAMPLE DATE:	09/30/01	09/30/01		
LABORATORY ID:	F11076-5	F11076-6		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U		2.2	U							
2-METHYLNAPHTHALENE	2.2	U		2.2	U							
ACENAPHTHENE	4.4	U		4.4	U							
ACENAPHTHYLENE	4.4	U		4.4	U							
ANTHRACENE	2.2	U		2.2	U							
BENZO(A)ANTHRACENE	0.22	U		0.22	U							
BENZO(A)PYRENE	0.22	U		0.22	U							
BENZO(B)FLUORANTHENE	0.22	U		0.22	U							
BENZO(G,H,I)PERYLENE	0.22	U		0.22	U							
BENZO(K)FLUORANTHENE	0.22	U		0.22	U							
CHRYSENE	2.2	U		2.2	U							
DIBENZO(A,H)ANTHRACENE	0.22	U		0.22	U							
FLUORANTHENE	2.2	U		2.2	U							
FLUORENE	2.2	U		2.2	U							
INDENO(1,2,3-CD)PYRENE	0.22	U		0.22	U							
NAPHTHALENE	2.2	U		2.2	U							
PHENANTHRENE	2.2	U		2.2	U							
PYRENE	2.2	U		2.2	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-293-GW-1-01			CEF-293-GW-15D-01			CEF-293-GW-20-A3			CEF-293-GW-8-01		
SAMPLE DATE:	09/30/01			09/30/01			10/01/01			09/30/01		
LABORATORY ID:	F11076-8			F11076-10			F11076-3			F11076-9		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.254	J	P	0.28	U		0.58			0.643		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-824A-DUP3			CEF-824A-GW-01S-02			CEF-824A-GW-04S-03			CEF-824A-GW-07S-02		
SAMPLE DATE:	10/01/01			09/30/01			10/01/01			10/01/01		
LABORATORY ID:	F11076-4			F11076-7			F11076-2			F11076-1		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:	CEF-824A-GW-04S-03											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	1.69			0.28	U		1.72			1.67		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-824A-GW-08S-02			CEF-824A-GW-18S-01								
SAMPLE DATE:	09/30/01			09/30/01			/ /			/ /		
LABORATORY ID:	F11076-5			F11076-6								
QC_TYPE:	NORMAL			NORMAL								
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %		
UNITS:	MG/L			MG/L								
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.3	U		0.28	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-293-GW-20-A3	CEF-824A-DUP3	CEF-824A-GW-04S-03	CEF-824A-GW-07S-02
SAMPLE DATE:	10/01/01	10/01/01	10/01/01	10/01/01
LABORATORY ID:	F11076-3	F11076-4	F11076-2	F11076-1
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:		CEF-824A-GW-04S-03		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
DISSOLVED GASES												
ETHANE	1	U		1	U		1	U		1	U	
ETHENE	1	U		1	U		1	U		1	U	
METHANE	500			1990			2040			370		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-07S-02		
Lab Sample ID:	F11076-1	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013698.D	1	10/05/01	NAF	n/a	n/a	VH423
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	3.8	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	1.1	2.0	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	2.3	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	4.8	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	2.8	6.0	ug/l	J

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-07S-02		
Lab Sample ID:	F11076-1	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	97%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-04S-03		
Lab Sample ID:	F11076-2	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013725.D	1	10/08/01	NAF	n/a	n/a	VH424
Run #2	H013724.D	5	10/08/01	NAF	n/a	n/a	VH424

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	254 [a]	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	27.8	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	2.3	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	71.6	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-04S-03		
Lab Sample ID:	F11076-2	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	101%	80-120%
17060-07-0	1,2-Dichloroethane-D4	102%	102%	80-120%
2037-26-5	Toluene-D8	94%	95%	80-120%
460-00-4	4-Bromofluorobenzene	95%	98%	80-120%

(a) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-20-A3		
Lab Sample ID:	F11076-3	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013707.D	1	10/05/01	NAF	n/a	n/a	VH423
Run #2	H013722.D	2	10/08/01	NAF	n/a	n/a	VH424

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	0.87	1.0	ug/l	J
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	1.6	2.0	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	136 [a]	4.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	0.52	2.0	ug/l	J
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	3.3	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-20-A3		
Lab Sample ID:	F11076-3	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	80-120%
2037-26-5	Toluene-D8	96%	95%	80-120%
460-00-4	4-Bromofluorobenzene	96%	98%	80-120%

(a) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP3		
Lab Sample ID:	F11076-4	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013708.D	1	10/05/01	NAF	n/a	n/a	VH423
Run #2	H013723.D	5	10/08/01	NAF	n/a	n/a	VH424

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	242 [a]	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	20.7	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	1.7	2.0	ug/l	J
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	51.9	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP3		
Lab Sample ID:	F11076-4	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	104%	104%	80-120%
2037-26-5	Toluene-D8	98%	95%	80-120%
460-00-4	4-Bromofluorobenzene	99%	96%	80-120%

(a) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-08S-02		
Lab Sample ID:	F11076-5	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013709.D	1	10/05/01	NAF	n/a	n/a	VH423
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	1.5	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	9.9	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	33.8	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.94	2.0	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	1.9	6.0	ug/l	J

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-08S-02		
Lab Sample ID:	F11076-5	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	98%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-18S-01		
Lab Sample ID:	F11076-6	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013721.D	1	10/08/01	NAF	n/a	n/a	VH424
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-18S-01		
Lab Sample ID:	F11076-6	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	94%		80-120%
460-00-4	4-Bromofluorobenzene	96%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-01S-02		
Lab Sample ID:	F11076-7	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013710.D	1	10/05/01	NAF	n/a	n/a	VH423
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-01S-02		
Lab Sample ID:	F11076-7	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	98%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-1-01		
Lab Sample ID:	F11076-8	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013711.D	1	10/05/01	NAF	n/a	n/a	VH423
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-1-01		
Lab Sample ID:	F11076-8	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	97%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-8-01		
Lab Sample ID:	F11076-9	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013719.D	1	10/08/01	NAF	n/a	n/a	VH424
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-8-01		
Lab Sample ID:	F11076-9	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	95%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-15D-01		
Lab Sample ID:	F11076-10	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013720.D	1	10/08/01	NAF	n/a	n/a	VH424
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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

Report of Analysis

Client Sample ID:	CEF-293-GW-15D-01		
Lab Sample ID:	F11076-10	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	94%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-07S-02		
Lab Sample ID:	F11076-1	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009066.D	1	10/09/01	MRE	10/04/01	OP3956	GAA394
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	13.9	2.0	ug/l	
90-12-0	1-Methylnaphthalene	25.5	2.0	ug/l	
91-57-6	2-Methylnaphthalene	30.4	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		33-141%
92-94-4	p-Terphenyl	82%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-04S-03		
Lab Sample ID:	F11076-2	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009067.D	1	10/09/01	MRE	10/04/01	OP3956	GAA394
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene [b]	ND	8.8	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	30.3	2.2	ug/l	
90-12-0	1-Methylnaphthalene	7.8	2.2	ug/l	
91-57-6	2-Methylnaphthalene	8.9	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		33-141%
92-94-4	p-Terphenyl	85%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Elevated reporting limits due to matrix interference.

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-20-A3		
Lab Sample ID:	F11076-3	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009068.D	1	10/09/01	MRE	10/04/01	OP3956	GAA394
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	1.2	2.0	ug/l	J
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		33-141%
92-94-4	p-Terphenyl	86%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP3		
Lab Sample ID:	F11076-4	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009069.D	1	10/09/01	MRE	10/04/01	OP3956	GAA394
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene [b]	ND	8.8	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	30.8	2.2	ug/l	
90-12-0	1-Methylnaphthalene	7.4	2.2	ug/l	
91-57-6	2-Methylnaphthalene	8.6	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		33-141%
92-94-4	p-Terphenyl	84%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Elevated reporting limits due to matrix interference.

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-08S-02		
Lab Sample ID:	F11076-5	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009070.D	1	10/09/01	MRE	10/04/01	OP3956	GAA394
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		33-141%
92-94-4	p-Terphenyl	78%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-18S-01		
Lab Sample ID:	F11076-6	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009072.D	1	10/09/01	MRE	10/04/01	OP3956	GAA394
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	79%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-01S-02		
Lab Sample ID:	F11076-7	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009075.D	1	10/09/01	MRE	10/04/01	OP3956	GAA394
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	2.4	4.0	ug/l	J
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		33-141%
92-94-4	p-Terphenyl	82%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-1-01		
Lab Sample ID:	F11076-8	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009076.D	1	10/09/01	MRE	10/04/01	OP3956	GAA394
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		33-141%
92-94-4	p-Terphenyl	74%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-8-01		
Lab Sample ID:	F11076-9	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009077.D	1	10/09/01	MRE	10/04/01	OP3956	GAA394
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	2.2	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		33-141%
92-94-4	p-Terphenyl	57%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-15D-01		
Lab Sample ID:	F11076-10	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009078.D	1	10/09/01	MRE	10/04/01	OP3956	GAA394
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		33-141%
92-94-4	p-Terphenyl	80%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-07S-02		
Lab Sample ID:	F11076-1	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17401.D	2	10/09/01	ME	10/04/01	OP3953	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.67	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-04S-03		
Lab Sample ID:	F11076-2	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17386.D	1	10/09/01	ME	10/04/01	OP3953	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.72	0.30	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-20-A3		
Lab Sample ID:	F11076-3	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17387.D	1	10/09/01	ME	10/04/01	OP3953	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.580	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP3		
Lab Sample ID:	F11076-4	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17388.D	1	10/09/01	ME	10/04/01	OP3953	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.69	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-08S-02		
Lab Sample ID:	F11076-5	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17390.D	1	10/09/01	ME	10/04/01	OP3953	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.30	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-18S-01		
Lab Sample ID:	F11076-6	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17391.D	1	10/09/01	ME	10/04/01	OP3953	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-01S-02		
Lab Sample ID:	F11076-7	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17392.D	1	10/09/01	ME	10/04/01	OP3953	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-1-01		
Lab Sample ID:	F11076-8	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17393.D	1	10/09/01	ME	10/04/01	OP3953	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.254	0.28	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-8-01		
Lab Sample ID:	F11076-9	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17394.D	1	10/09/01	ME	10/04/01	OP3953	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.643	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-15D-01		
Lab Sample ID:	F11076-10	**Date Sampled:**	09/30/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17395.D	1	10/09/01	ME	10/04/01	OP3953	GOP670
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-20-A3		
Lab Sample ID:	F11076-3	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001089.D	1	10/03/01	RA	n/a	n/a	GXY62
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	500	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP3		
Lab Sample ID:	F11076-4	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001090.D	1	10/03/01	RA	n/a	n/a	GXY62
Run #2	XY001097.D	5	10/04/01	RA	n/a	n/a	GXY63

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	1990 [a]	2.5	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

(a) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-04S-03		
Lab Sample ID:	F11076-2	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001088.D	1	10/03/01	RA	n/a	n/a	GXY62
Run #2	XY001096.D	2	10/04/01	RA	n/a	n/a	GXY63

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	2040 [a]	1.0	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

(a) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-07S-02		
Lab Sample ID:	F11076-1	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001086.D	1	10/03/01	RA	n/a	n/a	GXY62
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	369	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **MR. M. SPERANZA** **DATE: NOVEMBER 28, 2001**

FROM: **SETH STAFFEN** **CC: DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA / PAH / TPH / OVG**
CTO 078 – NAS CECIL FIELD
SDG: F11048

SAMPLES: 4/Aqueous/VOA/PAH/TPH/OVG

CEF-293-GW-11-A3 CEF-293-GW-19-A3 CEF-293-GW-22-A3
CEF-294A-GW-09S-02

OVERVIEW

The sample sets for CTO 078, SDG F1148, Naval Air Station (NAS) Cecil Field; Florida consists of four (4) aqueous environmental samples that were analyzed for Target Compound List (TCL) volatile organic compounds, polynuclear aromatic hydrocarbons, and total petroleum hydrocarbons. No field duplicate pairs were included within this SDG.

The samples were collected by Tetra Tech NUS on September 27, 2001 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 Methods 8260B, 8310, Florida-PRO, and RSKSOP 147/175 analytical and reporting protocol. 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

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.

The text of this report is formulated to address only gross noncompliances resulting in the rejection of data and the elimination of false positives.

VOLATILE FRACTION

The continuing calibration on 10/04/01 at 1012 contained RRFs that were less than the 0.05 quality control limit for bromomethane and chloroethane. The aforementioned compounds were rejected, UR, in samples CEF-824A-GW-09S-02 and CEF-293-GW-19-A3.

The continuing calibration on 10/05/01 at 1006 contained a RRF that was less than the 0.05 quality control limit for bromomethane. Bromomethane was qualified as rejected, UR, in samples CEF-293-GW-11-A3, and CEF-293-GW-22-A3.

PAH FRACTION

The continuing calibrations on 09/05/01 at 1252 and 10/09/01 at 1301 contained a %D that exceeded the 15% quality control limit for anthracene on one detector. No qualification action was taken because the other detector was compliant.

The continuing calibration on 10/08/01 at 1430 contained a %D that exceeded the 15% quality control limit for anthracene on both detectors. No qualification action was taken because the exceedance was not a gross noncompliance.

TPH FRACTION

All quality control parameters were met for this fraction.

DISSOLVED GASES

All quality control parameters were met for this fraction.

ADDITIONAL COMMENTS

Positive results below the reporting limit were qualified as estimated, J, due to uncertainty near the detection limit.

Sample CEF-293-GW-11-A3 was analyzed at a 5X dilution. Thus, causing elevated reporting limits.

EXECUTIVE SUMMARY

Laboratory performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999) and the NFESC guidelines "Navy IRCDQM" (September 1999). 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)."

Seth Staffen

Environmental Scientist/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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

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
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11048

SAMPLE NUMBER:	CEF-293-GW-11-A3			CEF-293-GW-19-A3			CEF-293-GW-22-A3			CEF-824A-GW-09S-02		
SAMPLE DATE:	09/27/01			09/27/01			09/27/01			09/27/01		
LABORATORY ID:	F11048-1			F11048-4			F11048-2			F11048-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	10	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	10	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	10	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	10	U		58.6			2	U		2.4		
1,1-DICHLOROETHENE	10	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	10	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	10	U		2	U		2	U		2	U	
2-BUTANONE	50	U		10	U		10	U		10	U	
2-HEXANONE	50	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	50	U		76.1			10	U		10	U	
ACETONE	250	U		190			50	U		50	U	
BENZENE	30.5			1.8			5.3			1	U	
BROMODICHLOROMETHANE	10	U		2	U		2	U		2	U	
BROMOFORM	10	U		2	U		2	U		2	U	
BROMOMETHANE	25	UR	C	5	UR	C	5	UR	C	5	UR	C
CARBON DISULFIDE	50	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	10	U		2	U		2	U		2	U	
CHLOROBENZENE	10	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	10	U		2	U		2	U		2	U	
CHLOROETHANE	25	U		5	UR	C	5	U		5	UR	C
CHLOROFORM	10	U		2	U		2	U		2	U	
CHLOROMETHANE	25	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	10	U		825			2	U		2	U	
CIS-1,3-DICHLOROPROPENE	10	U		2	U		2	U		2	U	
ETHYLBENZENE	148			5			2	U		2	U	
METHYLENE CHLORIDE	25	U		5	U		5	U		5	U	
STYRENE	10	U		2	U		2	U		2	U	
TETRACHLOROETHENE	10	U		2	U		2	U		2	U	
TOLUENE	66			33.4			2	U		2	U	
TOTAL XYLENES	572			31.8			6	U		6	U	
TRANS-1,2-DICHLOROETHENE	10	U		5.1			2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11048

SAMPLE NUMBER:	CEF-293-GW-11-A3			CEF-293-GW-19-A3			CEF-293-GW-22-A3			CEF-824A-GW-09S-02		
SAMPLE DATE:	09/27/01			09/27/01			09/27/01			09/27/01		
LABORATORY ID:	F11048-1			F11048-4			F11048-2			F11048-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	10	U		2	U		2	U		2	U	
TRICHLOROETHENE	10	U		43			2	U		1	J	P
VINYL CHLORIDE	5	U		1	U		1	U		1	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11048

SAMPLE NUMBER:	CEF-293-GW-11-A3			CEF-293-GW-19-A3			CEF-293-GW-22-A3			CEF-824A-GW-09S-02		
SAMPLE DATE:	09/27/01			09/27/01			09/27/01			09/27/01		
LABORATORY ID:	F11048-1			F11048-4			F11048-2			F11048-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	60.4			4	U		10.9			2	U	
2-METHYLNAPHTHALENE	57.5			4	U		11.6			2	U	
ACENAPHTHENE	21	U		8	U		4.4	U		4	U	
ACENAPHTHYLENE	21	U		8	U		4.4	U		4	U	
ANTHRACENE	2.2	U		2.2	U		2.2	U		2	U	
BENZO(A)ANTHRACENE	0.22	U		0.22	U		0.22	U		0.2	U	
BENZO(A)PYRENE	0.22	U		0.22	U		0.22	U		0.2	U	
BENZO(B)FLUORANTHENE	0.22	U		0.22	U		0.22	U		0.2	U	
BENZO(G,H,I)PERYLENE	0.22	U		0.22	U		0.22	U		0.2	U	
BENZO(K)FLUORANTHENE	0.22	U		0.22	U		0.22	U		0.2	U	
CHRYSENE	2.2	U		2.2	U		2.2	U		2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U		0.22	U		0.22	U		0.2	U	
FLUORANTHENE	2.2	U		2.2	U		2.2	U		2	U	
FLUORENE	11	U		4	U		2.2	U		2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U		0.22	U		0.22	U		0.2	U	
NAPHTHALENE	126			46			14.7			2	U	
PHENANTHRENE	2.2	U		2.2	U		2.2	U		2	U	
PYRENE	2.2	U		2.2	U		2.2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11048

SAMPLE NUMBER:	CEF-293-GW-11-A3			CEF-293-GW-19-A3			CEF-293-GW-22-A3			CEF-824A-GW-09S-02		
SAMPLE DATE:	09/27/01			09/27/01			09/27/01			09/27/01		
LABORATORY ID:	F11048-1			F11048-4			F11048-2			F11048-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	2.46			4.44			0.946			0.352		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11048

SAMPLE NUMBER:	CEF-293-GW-11-A3			CEF-293-GW-19-A3			CEF-293-GW-22-A3			CEF-824A-GW-09S-02		
SAMPLE DATE:	09/27/01			09/27/01			09/27/01			09/27/01		
LABORATORY ID:	F11048-1			F11048-4			F11048-2			F11048-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
DISSOLVED GASES												
ETHANE	1	U		1	U		1	U		1	U	
ETHENE	1	U		1	U		1	U		1	U	
METHANE	1693			5352			232			534		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11048

SAMPLE NUMBER:	CEF-293-GW-11-A3	CEF-293-GW-19-A3	CEF-293-GW-22-A3	CEF-824A-GW-09S-02
SAMPLE DATE:	09/27/01	09/27/01	09/27/01	09/27/01
LABORATORY ID:	F11048-1	F11048-4	F11048-2	F11048-3
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	10	U		2.0	U		2.0	U		2.0	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A3		
Lab Sample ID:	F11048-1	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/27/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015472.D	5	10/05/01	KW	n/a	n/a	VG470
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	250	ug/l	
71-43-2	Benzene	30.5	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	10	ug/l	
75-00-3	Chloroethane	ND	25	ug/l	
67-66-3	Chloroform	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	148	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	50	ug/l	
74-83-9	Methyl bromide	ND	25	ug/l	
74-87-3	Methyl chloride	ND	25	ug/l	
75-09-2	Methylene chloride	ND	25	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	ug/l	
100-42-5	Styrene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	ug/l	
127-18-4	Tetrachloroethylene	ND	10	ug/l	
108-88-3	Toluene	66.0	10	ug/l	
79-01-6	Trichloroethylene	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	572	30	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A3		
Lab Sample ID:	F11048-1	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/27/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	111%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	101%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-22-A3		
Lab Sample ID:	F11048-2	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/27/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015474.D	1	10/05/01	KW	n/a	n/a	VG470
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	5.3	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-22-A3		
Lab Sample ID:	F11048-2	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/27/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	111%		80-120%
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 blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-19-A3		
Lab Sample ID:	F11048-4	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/27/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015460.D	1	10/04/01	KW	n/a	n/a	VG469
Run #2	G0015473.D	10	10/05/01	KW	n/a	n/a	VG470

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	190	50	ug/l	
71-43-2	Benzene	1.8	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	58.6	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	825 [a]	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	5.1	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	5.0	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	76.1	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	33.4	2.0	ug/l	
79-01-6	Trichloroethylene	43.0	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	31.8	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-19-A3		
Lab Sample ID:	F11048-4	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/27/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	112%	109%	80-120%
2037-26-5	Toluene-D8	96%	104%	80-120%
460-00-4	4-Bromofluorobenzene	103%	103%	80-120%

(a) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-09S-02		
Lab Sample ID:	F11048-3	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/27/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015459.D	1	10/04/01	KW	n/a	n/a	VG469
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	2.4	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	1.0	2.0	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-09S-02		
Lab Sample ID:	F11048-3	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/27/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	114%		80-120%
2037-26-5	Toluene-D8	99%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A3		
Lab Sample ID:	F11048-1	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005323.D	1	10/08/01	MRE	10/03/01	OP3945	GEE246
Run #2 [a]	EE005367.D	5	10/09/01	MRE	10/03/01	OP3945	GEE247

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND [b]	21	ug/l	
208-96-8	Acenaphthylene	ND [b]	21	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND [b]	11	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	126 [b]	11	ug/l	
90-12-0	1-Methylnaphthalene	60.4 [b]	11	ug/l	
91-57-6	2-Methylnaphthalene	57.5 [b]	11	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	115%	114%	33-141%
92-94-4	p-Terphenyl	85%	88%	31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-22-A3		
Lab Sample ID:	F11048-2	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005366.D	1	10/09/01	MRE	10/03/01	OP3945	GEE247
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	14.7	2.2	ug/l	
90-12-0	1-Methylnaphthalene	10.9	2.2	ug/l	
91-57-6	2-Methylnaphthalene	11.6	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		33-141%
92-94-4	p-Terphenyl	85%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-19-A3		
Lab Sample ID:	F11048-4	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005326.D	1	10/08/01	MRE	10/03/01	OP3945	GEE246
Run #2 [a]	EE005368.D	2	10/09/01	MRE	10/03/01	OP3945	GEE247

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND [b]	8.0	ug/l	
208-96-8	Acenaphthylene	ND [b]	8.0	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND [b]	4.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	46.0 [b]	4.0	ug/l	
90-12-0	1-Methylnaphthalene	ND [b]	4.0	ug/l	
91-57-6	2-Methylnaphthalene	ND [b]	4.0	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%	85%	33-141%
92-94-4	p-Terphenyl	63%	62%	31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A3		
Lab Sample ID:	F11048-1	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17333.D	2	10/05/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	2.46	0.52	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-19-A3		
Lab Sample ID:	F11048-4	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17335.D	4	10/05/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	4.44	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-22-A3		
Lab Sample ID:	F11048-2	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17305.D	1	10/04/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.946	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	92%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-09S-02		
Lab Sample ID:	F11048-3	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17306.D	1	10/04/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.352	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A3		
Lab Sample ID:	F11048-1	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001066.D	1	10/01/01	RA	n/a	n/a	GXY61
Run #2	XY001067.D	2	10/01/01	RA	n/a	n/a	GXY61

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	1690 [a]	1.0	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

(a) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-19-A3		
Lab Sample ID:	F11048-4	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001071.D	1	10/01/01	RA	n/a	n/a	GXY61
Run #2	XY001072.D	10	10/01/01	RA	n/a	n/a	GXY61

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	5350 [a]	5.0	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

(a) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-22-A3		
Lab Sample ID:	F11048-2	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001068.D	1	10/01/01	RA	n/a	n/a	GXY61
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	232	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-09S-02		
Lab Sample ID:	F11048-3	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001070.D	1	10/01/01	RA	n/a	n/a	GXY61
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	534	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. SPERANZA** **DATE:** **DECEMBER 12, 2001**

FROM: **DOUGLAS S. SCHLOER** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA / PAH / TPH / DISSOLVED GASES**
CTO 078, NAS CECIL FIELD
SDG: F11028

SAMPLES: 4 / Groundwater / VOA / PAH / TPH / DISSOLVED GASES

CEF-B312-GW-05S-01 CEF-B312-GW-01S-03 CEF-B312-GW-03S-02
CEF-B312-DUP2

1 / Groundwater / VOA / PAH / TPH

CEF-B312-GW-01SA-01

OVERVIEW

The sample set for CTO 078, NAS Cecil Field; SDG F11028 consists of five (5) groundwater samples. The samples were analyzed for volatile organic compounds (VOC), polynuclear aromatic hydrocarbons (PAH), total petroleum hydrocarbons (TPH) and dissolved gases (methane, ethane and ethene). One field duplicate pair was included in this SDG: CEF-B312-GW-05S-02 and CEF-B312-DUP2.

The samples were collected by TetraTech NUS on September 26th, 2001 and analyzed by Accutest Laboratories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using U.S. EPA Test Methods for Evaluating Solid Wastes (SW-846) Methods 8260B, 8310, Florida State-Total Recoverable Petroleum Hydrocarbon (FL-TRPH) and the Robert S. Kerr Standard Operating Procedure (RSK-SOP) 175 analytical and reporting protocol. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • Initial/continuing calibrations
* • Laboratory method blank results
* • Field Duplicate Results
* • Detection Limits

The symbol (*) indicates that 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. Results as reported by the laboratory are presented in Appendix B.

The text of this report is formulated to address only gross noncompliances resulting in the rejection of data and the elimination of false positives.

Volatile

A calibration verification Relative Response Factor (RRF) fell below the 0.05 quality control limit for bromomethane on 10/3/01, on instrument GCMSG, at 11:46. Only nondetected results were reported for bromomethane and these were rejected (UR) in the affected samples.

Calibration verification RRFs fell below the 0.05 quality control limit for bromomethane and chloroethane on 10/4/01, on instrument GCMSG, at 10:12. Only nondetected results were reported for bromomethane and chloroethane and these were rejected (UR) in the affected samples.

There were additional calibration verification noncompliances in the above mentioned analyses (percent Differences); however, no action was taken based on these noncompliances as only a limited data review is being performed.

A positive result was reported for acetone in sample CEF-B312-GW-01S-03. However, acetone was not detected in the associated laboratory method blank. Despite the absence of acetone in the laboratory method blanks, the result for acetone was qualified as estimated (J) in CEF-B312-GW-01S-03, due to laboratory contamination.

PAH

A calibration verification percent Difference (%D) exceeded the 15% quality control limit on one analytical detector for anthracene on 10/3/01, on instrument G1315A, at 22:39. No action was taken based on this noncompliance as only a limited data review is being performed.

A calibration verification %D exceeded the 15% quality control limit on one analytical detector for anthracene on 10/4/01, on instrument G1315A, at 10:10. No action was taken based on this noncompliance as only a limited data review is being performed.

A calibration verification %D exceeded the 15% quality control limit on one analytical detector for anthracene on 10/4/01, on instrument G1315A, at 12:35. No action was taken based on this noncompliance as only a limited data review is being performed.

Due to the presence of naphthalene at an elevated concentration, sample CEF-B312-GW-01S-03 was re-analyzed at an 8X-dilution factor. The laboratory reported only one set of analytical data. The positive result for naphthalene and nondetected results for the following compounds were reported from the 8X dilution: acenaphthene. acenaphthylene, fluorene, 1-methylnaphthalene and 2-methylnaphthalene. This accounts for the elevated reporting limits for these compounds.

TPH

Due to the presence of petroleum hydrocarbon at elevated concentrations, samples CEF-B312-GW-01S-03 and CEF-B312-GW-03S-02 were analyzed and reported at 10X and 2X dilutions, respectively.

Field duplicate precision was evaluated for positive results reported in the field duplicate pair CEF-B312-GW-03S-02 and CEF-B312-DUP2. Due to an Relative Percent Difference (RPD) that exceeded the 50% quality control limit, the positive results reported for total petroleum hydrocarbon was were qualified as estimated (J) in the field duplicate pair.

DISSOLVED GASES

A calibration verification %D exceeded the 15% quality control limit for ethane on 9/28/01, on instrument VOA5, at 14:58. No action was taken based on this noncompliance as only a limited data review is being performed.

Due to the presence of methane at an elevated concentration, sample CEF-B312-GW-01S-03 was re-analyzed at a 2X-dilution factor. The laboratory reported only one set of analytical data. The positive result for methane was reported from the 2X dilution and the remaining parameters were reported form the original sample analysis.

EXECUTIVE SUMMARY

Laboratory Performance Issues: The calibration verification of anthracene and ethane failed to meet quality control criteria. However, no data qualifiers were required.

Other Factors Affecting Data Quality: Field duplicate imprecision was noted for TPH in the duplicate pair CEF-B312-GW-05S-02 and CEF-B312-DUP2, resulting in the qualification of analytical data.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines "Navy IRCDQM" (Sept 1999). 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)."

Tetra Tech NUS

Douglas S. Schloer
Chemist/Data Validator

Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

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

FIELD DUPLICATE SUMMARY
NAS CECIL FIELD CTO 078
11028

Analytical Fraction	Compound	CEF-B312-GW-05S-02 (UG/L)	CEF-B312-DUP2 (UG/L)	RPD
VOA	1,1-Dichloroethane	1.7 J	1.7 J	NC
PAH	Naphthalene	ND	1.3 J	NC
TPH	Petroleum	1850	607	101.2
DISSOLVED GASES	Methane	86.6	91.6	5.6

ND - Compound not detected.
NC - RPD not calculated.

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

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
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-DUP2			CEF-B312-GW-01S-03			CEF-B312-GW-01SA-03			CEF-B312-GW-03S-02		
SAMPLE DATE:	09/26/01			09/26/01			09/26/01			09/26/01		
LABORATORY ID:	F11028-5			F11028-2			F11028-3			F11028-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	CEF-B312-GW-05S-02											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	1.7	J	P	6.8			2	U		2	U	
1,1-DICHLOROETHENE	2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		36.9			10	U		10	U	
ACETONE	50	U		122	J	A	50	U		50	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	UR	C	5	UR	C	5	UR	C	5	UR	C
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	2	U		2	U		2	U		2	U	
CHLOROMETHANE	5	U		5	UR	C	5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	2	U		2	U		2	U		2	U	
METHYL TERT-BUTYL ETHER	2	U		2	U		2	U		2	U	
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		2	U	
TOLUENE	2	U		1.6	J	P	2	U		2	U	
TOTAL XYLENES	6	U		4.1	J	P	6	U		6	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-DUP2	CEF-B312-GW-01S-03	CEF-B312-GW-01SA-03	CEF-B312-GW-03S-02
SAMPLE DATE:	09/26/01	09/26/01	09/26/01	09/26/01
LABORATORY ID:	F11028-5	F11028-2	F11028-3	F11028-4
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:	CEF-B312-GW-05S-02			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
TRICHLOROETHENE	2	U		2	U		2	U		2	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-GW-05S-02											
SAMPLE DATE:	09/26/01			/ /			/ /			/ /		
LABORATORY ID:	F11028-1											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U										
1,1,2,2-TETRACHLOROETHANE	2	U										
1,1,2-TRICHLOROETHANE	2	U										
1,1-DICHLOROETHANE	1.7	J	P									
1,1-DICHLOROETHENE	2	U										
1,2-DICHLOROETHANE	2	U										
1,2-DICHLOROPROPANE	2	U										
2-BUTANONE	10	U										
2-HEXANONE	10	U										
4-METHYL-2-PENTANONE	10	U										
ACETONE	50	U										
BENZENE	1	U										
BROMODICHLOROMETHANE	2	U										
BROMOFORM	2	U										
BROMOMETHANE	5	UR	C									
CARBON DISULFIDE	10	U										
CARBON TETRACHLORIDE	2	U										
CHLOROBENZENE	2	U										
CHLORODIBROMOMETHANE	2	U										
CHLOROETHANE	5	U										
CHLOROFORM	2	U										
CHLOROMETHANE	5	U										
CIS-1,2-DICHLOROETHENE	2	U										
CIS-1,3-DICHLOROPROPENE	2	U										
ETHYLBENZENE	2	U										
METHYL TERT-BUTYL ETHER	2	U										
METHYLENE CHLORIDE	5	U										
STYRENE	2	U										
TETRACHLOROETHENE	2	U										
TOLUENE	2	U										
TOTAL XYLENES	6	U										

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-GW-05S-02											
SAMPLE DATE:	09/26/01			/ /			/ /			/ /		
LABORATORY ID:	F11028-1											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,2-DICHLOROETHENE	2	U										
TRANS-1,3-DICHLOROPROPENE	2	U										
TRICHLOROETHENE	2	U										
VINYL CHLORIDE	1	U										

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-DUP2	CEF-B312-GW-01S-03	CEF-B312-GW-01SA-03	CEF-B312-GW-03S-02
SAMPLE DATE:	09/26/01	09/26/01	09/26/01	09/26/01
LABORATORY ID:	F11028-5	F11028-2	F11028-3	F11028-4
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:	CEF-B312-GW-05S-02			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U		16	U		2.2	U		2	J	P
2-METHYLNAPHTHALENE	2.2	U		16	U		2.2	U		2	U	
ACENAPHTHENE	4.4	U		32	U		4.4	U		4	U	
ACENAPHTHYLENE	4.4	U		32	U		4.4	U		4	U	
ANTHRACENE	2.2	U		2	U		2.2	U		2	U	
BENZO(A)ANTHRACENE	0.22	U		0.2	U		0.22	U		0.2	U	
BENZO(A)PYRENE	0.22	U		0.2	U		0.22	U		0.2	U	
BENZO(B)FLUORANTHENE	0.22	U		0.2	U		0.22	U		0.2	U	
BENZO(G,H,I)PERYLENE	0.22	U		0.2	U		0.22	U		0.2	U	
BENZO(K)FLUORANTHENE	0.22	U		0.2	U		0.22	U		0.2	U	
CHRYSENE	2.2	U		2	U		2.2	U		2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U		0.2	U		0.22	U		0.2	U	
FLUORANTHENE	2.2	U		2	U		2.2	U		2	U	
FLUORENE	2.2	U		16	U		2.2	U		2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U		0.2	U		0.22	U		0.2	U	
NAPHTHALENE	1.3	J	P	156			2.2	U		1.9	J	P
PHENANTHRENE	2.2	U		2	U		2.2	U		2	U	
PYRENE	2.2	U		2	U		2.2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-GW-05S-02			
SAMPLE DATE:	09/26/01	/ /	/ /	/ /
LABORATORY ID:	F11028-1			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U										
2-METHYLNAPHTHALENE	2.2	U										
ACENAPHTHENE	4.4	U										
ACENAPHTHYLENE	4.4	U										
ANTHRACENE	2.2	U										
BENZO(A)ANTHRACENE	0.22	U										
BENZO(A)PYRENE	0.22	U										
BENZO(B)FLUORANTHENE	0.22	U										
BENZO(G,H,I)PERYLENE	0.22	U										
BENZO(K)FLUORANTHENE	0.22	U										
CHRYSENE	2.2	U										
DIBENZO(A,H)ANTHRACENE	0.22	U										
FLUORANTHENE	2.2	U										
FLUORENE	2.2	U										
INDENO(1,2,3-CD)PYRENE	0.22	U										
NAPHTHALENE	2.2	U										
PHENANTHRENE	2.2	U										
PYRENE	2.2	U										

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-DUP2			CEF-B312-GW-01S-03			CEF-B312-GW-01SA-03			CEF-B312-GW-03S-02		
SAMPLE DATE:	09/26/01			09/26/01			09/26/01			09/26/01		
LABORATORY ID:	F11028-5			F11028-2			F11028-3			F11028-4		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:	CEF-B312-GW-05S-02											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	0.607	J	G	9			0.28	U		1.85	J	G

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-GW-05S-02			
SAMPLE DATE:	09/26/01	/ /	/ /	/ /
LABORATORY ID:	F11028-1			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	MG/L			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	0.567											

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-DUP2	CEF-B312-GW-01S-03	CEF-B312-GW-03S-02	CEF-B312-GW-05S-02
SAMPLE DATE:	09/26/01	09/26/01	09/26/01	09/26/01
LABORATORY ID:	F11028-5	F11028-2	F11028-4	F11028-1
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:	CEF-B312-GW-05S-02			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
DISSOLVED GASES												
ETHANE	1	U		1	U		1	U		1	U	
ETHENE	1	U		1	U		1	U		1	U	
METHANE	91.6			1290			375			86.6		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP2		
Lab Sample ID:	F11028-5	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015436.D	1	10/03/01	KW	n/a	n/a	VG468
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	1.7	2.0	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP2		
Lab Sample ID:	F11028-5	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	96%		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 blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01S-03		
Lab Sample ID:	F11028-2	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015448.D	1	10/04/01	KW	n/a	n/a	VG469
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	122	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	6.8	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	36.9	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	1.6	2.0	ug/l	J
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	4.1	6.0	ug/l	J

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

Report of Analysis

Client Sample ID:	CEF-B312-GW-01S-03		
Lab Sample ID:	F11028-2	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

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

Report of Analysis

Client Sample ID:	CEF-B312-GW-01SA-03		
Lab Sample ID:	F11028-3	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015432.D	1	10/03/01	KW	n/a	n/a	VG468
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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

Report of Analysis

Client Sample ID:	CEF-B312-GW-01SA-03		
Lab Sample ID:	F11028-3	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	102%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-03S-02		
Lab Sample ID:	F11028-4	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015433.D	1	10/03/01	KW	n/a	n/a	VG468
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-03S-02		
Lab Sample ID:	F11028-4	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	104%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-05S-02		
Lab Sample ID:	F11028-1	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015430.D	1	10/03/01	KW	n/a	n/a	VG468
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	1.7	2.0	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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

Report of Analysis

Client Sample ID:	CEF-B312-GW-05S-02		
Lab Sample ID:	F11028-1	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	112%		80-120%
2037-26-5	Toluene-D8	96%		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 blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP2		
Lab Sample ID:	F11028-5	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005257.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	1.3	2.2	ug/l	J
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		33-141%
92-94-4	p-Terphenyl	73%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01S-03		
Lab Sample ID:	F11028-2	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005252.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2	EE005265.D	8	10/04/01	MRE	10/01/01	OP3929	GEE243

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND [a]	32	ug/l	
208-96-8	Acenaphthylene	ND [a]	32	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND [a]	16	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	156 [a]	16	ug/l	
90-12-0	1-Methylnaphthalene	ND [a]	16	ug/l	
91-57-6	2-Methylnaphthalene	ND [a]	16	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	119%	126%	33-141%
92-94-4	p-Terphenyl	64%	74%	31-122%

(a) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01SA-03		
Lab Sample ID:	F11028-3	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005253.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	70%		33-141%
92-94-4	p-Terphenyl	64%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-03S-02		
Lab Sample ID:	F11028-4	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005254.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	1.9	2.0	ug/l	J
90-12-0	1-Methylnaphthalene	2.0	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		33-141%
92-94-4	p-Terphenyl	83%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-05S-02		
Lab Sample ID:	F11028-1	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005251.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		33-141%
92-94-4	p-Terphenyl	71%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP2		
Lab Sample ID:	F11028-5	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17276.D	1	10/03/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.607	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01S-03		
Lab Sample ID:	F11028-2	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17292.D	10	10/03/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	9.00	2.5	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01SA-03		
Lab Sample ID:	F11028-3	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17272.D	1	10/03/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-03S-02		
Lab Sample ID:	F11028-4	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17293.D	2	10/03/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.85	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	104%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-05S-02		
Lab Sample ID:	F11028-1	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17270.D	1	10/03/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.567	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP2		
Lab Sample ID:	F11028-5	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001060.D	1	09/28/01	RA	n/a	n/a	GXY60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	91.6	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01S-03		
Lab Sample ID:	F11028-2	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	XY001058.D	1	09/28/01	RA	n/a	n/a	GXY60
Run #2	XY001059.D	2	09/28/01	RA	n/a	n/a	GXY60

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	1290 [b]	1.0	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	ND	1.0	ug/l	

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.
(b) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-03S-02		
Lab Sample ID:	F11028-4	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001055.D	1	09/28/01	RA	n/a	n/a	GXY60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	375	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-05S-02		
Lab Sample ID:	F11028-1	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	RSKSOP-147/175	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XY001057.D	1	09/28/01	RA	n/a	n/a	GXY60
Run #2							

CAS No.	Compound	Result	RL	Units	Q
74-82-8	Methane	86.6	0.50	ug/l	
74-84-0	Ethane	ND	1.0	ug/l	
74-85-1	Ethene	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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. SPERANZA**	**DATE:**	**JANUARY 28, 2002**
FROM:	**BERNARD F SPADA III**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION- VOA CTO 078, NAS CECIL FIELD SDG F11759**		
SAMPLES:	1/Aqueous CEF-312-GW-8S-03A		

OVERVIEW

The sample set for CTO 078, NAS Cecil Field, SDG F11759 consists of one (1) aqueous environmental sample. The sample was analyzed for volatile organic compounds (VOCs) by method SW-846 8260B.

The samples were collected by TetraTech NUS on December 12, 2001 and analyzed by Accutest. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8260B analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial and continuing calibration
* • Laboratory method and field quality control blank results
* • Detection Limits

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.

Volatiles

Bromoform had a 78.9%D in the continuing calibration. The non-detected result was qualified as estimated (UJ).

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualifications were made based on calibration noncompliance.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines (September, 1999). 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)."

Tetra Tech NUS

Bernard F Spada III
Chemist/Data Validator

Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11759

SAMPLE NUMBER:	CEF-312-GW-8S-03A											
SAMPLE DATE:	12/12/01			/ /			/ /			/ /		
LABORATORY ID:	F11759-1											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/L											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	66.1											
1,1,2,2-TETRACHLOROETHANE	2	U										
1,1,2-TRICHLOROETHANE	2	U										
1,1-DICHLOROETHANE	24.1											
1,1-DICHLOROETHENE	2	U										
1,2-DICHLOROETHANE	2	U										
1,2-DICHLOROPROPANE	2	U										
2-BUTANONE	10	U										
2-HEXANONE	10	U										
4-METHYL-2-PENTANONE	10	U										
ACETONE	50	U										
BENZENE	1	U										
BROMODICHLOROMETHANE	2	U										
BROMOFORM	2	UJ	C									
BROMOMETHANE	5	U										
CARBON DISULFIDE	10	U										
CARBON TETRACHLORIDE	2	U										
CHLOROBENZENE	2	U										
CHLORODIBROMOMETHANE	2	U										
CHLOROETHANE	5	U										
CHLOROFORM	2	U										
CHLOROMETHANE	5	U										
CIS-1,2-DICHLOROETHENE	2	U										
CIS-1,3-DICHLOROPROPENE	2	U										
ETHYLBENZENE	1.9	J	P									
METHYLENE CHLORIDE	5	U										
STYRENE	2	U										
TETRACHLOROETHENE	2	U										
TOLUENE	1.3	J	P									
TOTAL XYLENES	8.7											
TRANS-1,2-DICHLOROETHENE	2	U										

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11759

SAMPLE NUMBER:	CEF-312-GW-8S-03A			
SAMPLE DATE:	12/12/01	/ /	/ /	/ /
LABORATORY ID:	F11759-1			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U										
TRICHLOROETHENE	2	U										
VINYL CHLORIDE	1	U										

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11759

SAMPLE NUMBER:	CEF-312-GW-8S-03A			
SAMPLE DATE:	12/12/01	/ /	/ /	/ /
LABORATORY ID:	F11759-1			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/L			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U										

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-312-GW-8S-03A		
Lab Sample ID:	F11759-1	Date Sampled:	12/12/01
Matrix:	AQ - Ground Water	Date Received:	12/13/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Cecil Field CTO168		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0007594.D	1	12/18/01	JG	n/a	n/a	VB327
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	24.1	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	1.9	2.0	ug/l	J
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	66.1	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	1.3	2.0	ug/l	J
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	8.7	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-312-GW-8S-03A		
Lab Sample ID:	F11759-1	Date Sampled:	12/12/01
Matrix:	AQ - Ground Water	Date Received:	12/13/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	Cecil Field CTO168		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	101%		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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **MR. M. SPERANZA** ✓ **DATE: NOVEMBER 28, 2001**

FROM: **SETH STAFFEN** **CC: DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION – VOA / PAH / TPH**
CTO 078 – NAS CECIL FIELD
SDG: F10949

SAMPLES: 4/Aqueous/ VOA/PAH/TPH

CEF-312-GW-01-02 CEF-B312-GW-01I-02 CEF-B312-GW-06S-02
CEF-B312-GW-07S-03

5/Solid/VOA/PAH/TPH
CEF-57-58-IDW-SB-001 CEF-B312-SD-001 CEF-B312-SD-002
CEF-B312-SD-003 CEF-B312-SD-DUP-1

OVERVIEW

The sample sets for CTO 078, SDG: F10949, Naval Air Station (NAS) Cecil Field; Florida consists of four (4) aqueous environmental samples and five (5) soil environmental samples that were analyzed for Target Compound List (TCL) volatile organic compounds, polynuclear aromatic hydrocarbons, and total petroleum hydrocarbons. One field duplicate pair was included within this SDG: CEF-B312-SD-001 / CEF-B312-SD-DUP-1.

The samples were collected by Tetra Tech NUS on September 18-19, 2001 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 Methods 8260B, 8310, and Florida-PRO analytical and reporting protocol. 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
• Field Duplicate Precision
• Detection Limits

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.

The text of this report is formulated to address only gross noncompliances resulting in the rejection of data and the elimination of false positives.

VOLATILE FRACTION

The solid continuing calibrations on 09/24/01 at 1204 and 09/25/01 at 1058 contained %Ds that exceeded the 30% quality control limit for methylene chloride. No qualification action was taken because the exceedance was not a gross noncompliance.

2-Hexanone and 4-methyl-2-pentanone were detected in the laboratory method blank. No qualification action was taken because the aforementioned compounds were not detected in the environmental samples.

PAH FRACTION

Sample CEF-B312-SD-001 was analyzed at a 5X dilution. Thus causing elevated reporting limits.

The initial calibration on 09/04/01 contained a %RSD that exceeded the 20% quality control limit for anthracene on one detector. No qualification action was taken because the other detector was compliant and the exceedance was not a gross noncompliance.

Field duplicate imprecision occurred between sample CEF-B312-SD-001 and its duplicate CEF-312B-SD-DUP-1 for the following compounds: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(ah)anthracene, fluoranthene, indeno(123-cd)pyrene, phenanthrene, and pyrene. Positive and nondetected results for the aforementioned compounds were qualified as estimated, J, and ,UJ, in the field pair.

TPH FRACTION

Field duplicate imprecision occurred between sample CEF-B312-SD-001 and its duplicate CEF-312B-SD-DUP-1 for TPH. Positive results were qualified as estimated, J, in the field pair.

The following samples were analyzed at a dilution:

Sample	
CEF-312-GW-01-02	2X
CEF-B312-GW-06S-02	4X
CEF-B312-SD-001	8X
CEF-B312-SD-002	5X
CEF-B312-SD-003	4X
CEF-B312-SD-DUP-1	20X

ADDITIONAL COMMENTS

Positive results below the reporting limit were qualified as estimated, J, due to uncertainty near the detection limit.

EXECUTIVE SUMMARY

Laboratory performance: None.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (October 1999) and the NFESC guidelines "Navy IRCDQM" (September 1999). 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)."

Seth Staffen

Environmental Scientist/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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

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
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-312-GW-01-02			CEF-B312-GW-01I-02			CEF-B312-GW-06S-02			CEF-B312-GW-07S-03		
SAMPLE DATE:	09/19/01			09/19/01			09/18/01			09/18/01		
LABORATORY ID:	F10949-3			F10949-4			F10949-2			F10949-1		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	9.1			2	U		1	J	P	2	U	
1,1-DICHLOROETHENE	2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	2	U		2	U		2	U		2	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	0.48	J	P	2	U		2	U		2	U	
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		2	U	
TOLUENE	2	U		2	U		2	U		2	U	
TOTAL XYLENES	0.6	J	P	6	U		6	U		6	U	
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-312-GW-01-02	CEF-B312-GW-01I-02	CEF-B312-GW-06S-02	CEF-B312-GW-07S-03
SAMPLE DATE:	09/19/01	09/19/01	09/18/01	09/18/01
LABORATORY ID:	F10949-3	F10949-4	F10949-2	F10949-1
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRICHLOROETHENE	2	U		2	U		2	U		2	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-57-58-IDW-SB-001			CEF-B312-SD-001			CEF-B312-SD-002			CEF-B312-SD-003		
SAMPLE DATE:	09/19/01			09/19/01			09/19/01			09/19/01		
LABORATORY ID:	F10949-9			F10949-5			F10949-6			F10949-7		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	71.0 %			79.7 %			82.8 %			79.8 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	6.8	U		5.6	U		5.2	U		5.2	U	
1,1,2,2-TETRACHLOROETHANE	6.8	U		5.6	U		5.2	U		5.2	U	
1,1,2-TRICHLOROETHANE	6.8	U		5.6	U		5.2	U		5.2	U	
1,1-DICHLOROETHANE	4.2	J	P	5.6	U		5.2	U		5.2	U	
1,1-DICHLOROETHENE	6.8	U		5.6	U		5.2	U		5.2	U	
1,2-DICHLOROETHANE	6.8	U		5.6	U		5.2	U		5.2	U	
1,2-DICHLOROPROPANE	6.8	U		5.6	U		5.2	U		5.2	U	
2-BUTANONE	14	U		11	U		10	U		10	U	
2-HEXANONE	14	U		11	U		10	U		10	U	
4-METHYL-2-PENTANONE	14	U		11	U		10	U		10	U	
ACETONE	47.2	J	P	56	U		52	U		52	U	
BENZENE	6.8	U		5.6	U		5.2	U		5.2	U	
BROMODICHLOROMETHANE	6.8	U		5.6	U		5.2	U		5.2	U	
BROMOFORM	6.8	U		5.6	U		5.2	U		5.2	U	
BROMOMETHANE	6.8	U		5.6	U		5.2	U		5.2	U	
CARBON DISULFIDE	14	U		11	U		10	U		10	U	
CARBON TETRACHLORIDE	6.8	U		5.6	U		5.2	U		5.2	U	
CHLOROBENZENE	6.8	U		5.6	U		5.2	U		5.2	U	
CHLORODIBROMOMETHANE	6.8	U		5.6	U		5.2	U		5.2	U	
CHLOROETHANE	6.8	U		5.6	U		5.2	U		5.2	U	
CHLOROFORM	6.8	U		5.6	U		5.2	U		5.2	U	
CHLOROMETHANE	6.8	U		5.6	U		5.2	U		5.2	U	
CIS-1,2-DICHLOROETHENE	6.8	U		5.6	U		5.2	U		5.2	U	
CIS-1,3-DICHLOROPROPENE	6.8	U		5.6	U		5.2	U		5.2	U	
ETHYLBENZENE	6.8	U		5.6	U		5.2	U		5.2	U	
METHYLENE CHLORIDE	14	U		11	U		10	U		10	U	
STYRENE	6.8	U		5.6	U		5.2	U		5.2	U	
TETRACHLOROETHENE	6.8	U		5.6	U		5.2	U		5.2	U	
TOLUENE	6.8	U		5.6	U		5.2	U		5.2	U	
TOTAL XYLENES	20	U		17	U		16	U		15	U	
TRANS-1,2-DICHLOROETHENE	6.8	U		5.6	U		5.2	U		5.2	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-57-58-IDW-SB-001	CEF-B312-SD-001	CEF-B312-SD-002	CEF-B312-SD-003
SAMPLE DATE:	09/19/01	09/19/01	09/19/01	09/19/01
LABORATORY ID:	F10949-9	F10949-5	F10949-6	F10949-7
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	71.0 %	79.7 %	82.8 %	79.8 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	6.8	U		5.6	U		5.2	U		5.2	U	
TRICHLOROETHENE	6.8	U		5.6	U		5.2	U		5.2	U	
VINYL CHLORIDE	6.8	U		5.6	U		5.2	U		5.2	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-B312-SD-DUP-1			
SAMPLE DATE:	09/19/01	/ /	/ /	/ /
LABORATORY ID:	F10949-8			
QC_TYPE:	NORMAL			
% SOLIDS:	77.2 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/KG			
FIELD DUPLICATE OF:	CEF-B312-SD-001			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	5.5	U										
1,1,2,2-TETRACHLOROETHANE	5.5	U										
1,1,2-TRICHLOROETHANE	5.5	U										
1,1-DICHLOROETHANE	5.5	U										
1,1-DICHLOROETHENE	5.5	U										
1,2-DICHLOROETHANE	5.5	U										
1,2-DICHLOROPROPANE	5.5	U										
2-BUTANONE	11	U										
2-HEXANONE	11	U										
4-METHYL-2-PENTANONE	11	U										
ACETONE	55	U										
BENZENE	5.5	U										
BROMODICHLOROMETHANE	5.5	U										
BROMOFORM	5.5	U										
BROMOMETHANE	5.5	U										
CARBON DISULFIDE	11	U										
CARBON TETRACHLORIDE	5.5	U										
CHLOROBENZENE	5.5	U										
CHLORODIBROMOMETHANE	5.5	U										
CHLOROETHANE	5.5	U										
CHLOROFORM	5.5	U										
CHLOROMETHANE	5.5	U										
CIS-1,2-DICHLOROETHENE	5.5	U										
CIS-1,3-DICHLOROPROPENE	5.5	U										
ETHYLBENZENE	5.5	U										
METHYLENE CHLORIDE	11	U										
STYRENE	5.5	U										
TETRACHLOROETHENE	5.5	U										
TOLUENE	5.5	U										
TOTAL XYLENES	16	U										
TRANS-1,2-DICHLOROETHENE	5.5	U										

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-B312-SD-DUP-1			
SAMPLE DATE:	09/19/01	/ /	/ /	/ /
LABORATORY ID:	F10949-8			
QC_TYPE:	NORMAL			
% SOLIDS:	77.2 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/KG			
FIELD DUPLICATE OF:	CEF-B312-SD-001			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	5.5	U										
TRICHLOROETHENE	5.5	U										
VINYL CHLORIDE	5.5	U										

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-57-58-IDW-SB-001	CEF-B312-SD-001	CEF-B312-SD-002	CEF-B312-SD-003
SAMPLE DATE:	09/19/01	09/19/01	09/19/01	09/19/01
LABORATORY ID:	F10949-9	F10949-5	F10949-6	F10949-7
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	71.0 %	79.7 %	82.8 %	79.8 %
UNITS:	UG/KG	UG/KG	UG/KG	UG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	6.8	U		5.6000	U		5.2	U		5.2	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-B312-SD-DUP-1											
SAMPLE DATE:	09/19/01			/ /			/ /			/ /		
LABORATORY ID:	F10949-8											
QC_TYPE:	NORMAL											
% SOLIDS:	77.2 %			100.0 %			100.0 %			100.0 %		
UNITS:	UG/KG											
FIELD DUPLICATE OF:	CEF-B312-SD-001											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	5.5	U										

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-312-GW-01-02	CEF-B312-GW-01I-02	CEF-B312-GW-06S-02	CEF-B312-GW-07S-03
SAMPLE DATE:	09/19/01	09/19/01	09/18/01	09/18/01
LABORATORY ID:	F10949-3	F10949-4	F10949-2	F10949-1
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		2.0	U		2.0	U		2.0	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-312-GW-01-02			CEF-B312-GW-01I-02			CEF-B312-GW-06S-02			CEF-B312-GW-07S-03		
SAMPLE DATE:	09/19/01			09/19/01			09/18/01			09/18/01		
LABORATORY ID:	F10949-3			F10949-4			F10949-2			F10949-1		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	1.36			0.28	U		2.89			0.25	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-312-GW-01-02			CEF-B312-GW-01I-02			CEF-B312-GW-06S-02			CEF-B312-GW-07S-03		
SAMPLE DATE:	09/19/01			09/19/01			09/18/01			09/18/01		
LABORATORY ID:	F10949-3			F10949-4			F10949-2			F10949-1		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U		2.2	U		4.5			2	U	
2-METHYLNAPHTHALENE	2.2	U		2.2	U		3.5			2	U	
ACENAPHTHENE	4.4	U		4.4	U		4.4	U		4	U	
ACENAPHTHYLENE	4.4	U		4.4	U		4.4	U		4	U	
ANTHRACENE	2.2	U		2.2	U		2.2	U		2	U	
BENZO(A)ANTHRACENE	0.22	U		0.22	U		0.22	U		0.2	U	
BENZO(A)PYRENE	0.22	U		0.22	U		0.22	U		0.2	U	
BENZO(B)FLUORANTHENE	0.22	U		0.22	U		0.22	U		0.2	U	
BENZO(G,H,I)PERYLENE	0.22	U		0.22	U		0.22	U		0.2	U	
BENZO(K)FLUORANTHENE	0.22	U		0.22	U		0.22	U		0.2	U	
CHRYSENE	2.2	U		2.2	U		2.2	U		2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U		0.22	U		0.22	U		0.2	U	
FLUORANTHENE	2.2	U		2.2	U		2.2	U		2	U	
FLUORENE	2.2	U		2.2	U		2.2	U		2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U		0.22	U		0.22	U		0.2	U	
NAPHTHALENE	49.5			2.2	U		47.6			2	U	
PHENANTHRENE	2.2	U		2.2	U		2.2	U		2	U	
PYRENE	2.2	U		2.2	U		2.2	U		2	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-57-58-IDW-SB-001			CEF-B312-SD-001			CEF-B312-SD-002			CEF-B312-SD-003		
SAMPLE DATE:	09/19/01			09/19/01			09/19/01			09/19/01		
LABORATORY ID:	F10949-9			F10949-5			F10949-6			F10949-7		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	71.0 %			79.7 %			82.8 %			79.8 %		
UNITS:	UG/KG			UG/KG			UG/KG			UG/KG		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	470	U		2100	U		400	U		420	U	
2-METHYLNAPHTHALENE	470	U		2100	U		400	U		420	U	
ACENAPHTHENE	940	U		4200	U		800	U		840	U	
ACENAPHTHYLENE	940	U		4200	U		800	U		840	U	
ANTHRACENE	470	U		2100	U		400	U		420	U	
BENZO(A)ANTHRACENE	470	U		2650	J	G	400	U		420	U	
BENZO(A)PYRENE	94	U		3030	J	G	78.3	J	P	84	U	
BENZO(B)FLUORANTHENE	94	U		1570	J	G	70.7	J	P	84	U	
BENZO(G,H,I)PERYLENE	94	U		3400	J	G	152			84	U	
BENZO(K)FLUORANTHENE	94	U		775	J	G	44.4	J	P	84	U	
CHRYSENE	470	U		2770	J	G	400	U		420	U	
DIBENZO(A,H)ANTHRACENE	94	U		301	J	GP	80	U		84	U	
FLUORANTHENE	470	U		6790	J	G	169	J	P	420	U	
FLUORENE	470	U		2100	U		1200	U		420	U	
INDENO(1,2,3-CD)PYRENE	94	U		2030	J	G	87.7			84	U	
NAPHTHALENE	470	U		2100	U		400	U		420	U	
PHENANTHRENE	470	U		5790	J	G	400	U		420	U	
PYRENE	470	U		5820	J	G	178	J	P	420	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-B312-SD-DUP-1			
SAMPLE DATE:	09/19/01	/ /	/ /	/ /
LABORATORY ID:	F10949-8			
QC_TYPE:	NORMAL			
% SOLIDS:	77.2 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/KG			
FIELD DUPLICATE OF:	CEF-B312-SD-001			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	430	U										
2-METHYLNAPHTHALENE	430	U										
ACENAPHTHENE	860	U										
ACENAPHTHYLENE	860	U										
ANTHRACENE	430	U										
BENZO(A)ANTHRACENE	430	UJ	G									
BENZO(A)PYRENE	108	J	G									
BENZO(B)FLUORANTHENE	95	J	G									
BENZO(G,H,I)PERYLENE	245	J	G									
BENZO(K)FLUORANTHENE	59.1	J	P									
CHRYSENE	430	UJ	G									
DIBENZO(A,H)ANTHRACENE	86	UJ	G									
FLUORANTHENE	240	J	P									
FLUORENE	430	U										
INDENO(1,2,3-CD)PYRENE	134	J	G									
NAPHTHALENE	430	U										
PHENANTHRENE	430	UJ	G									
PYRENE	209	J	GP									

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-57-58-IDW-SB-001	CEF-B312-SD-001	CEF-B312-SD-002	CEF-B312-SD-003
SAMPLE DATE:	09/19/01	09/19/01	09/19/01	09/19/01
LABORATORY ID:	F10949-9	F10949-5	F10949-6	F10949-7
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	71.0 %	79.7 %	82.8 %	79.8 %
UNITS:	MG/KG	MG/KG	MG/KG	MG/KG
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	12	U		192	J	G	127			83.8		

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F10949

SAMPLE NUMBER:	CEF-B312-SD-DUP-1											
SAMPLE DATE:	09/19/01			/ /			/ /			/ /		
LABORATORY ID:	F10949-8											
QC_TYPE:	NORMAL											
% SOLIDS:	77.2 %			100.0 %			100.0 %			100.0 %		
UNITS:	MG/KG											
FIELD DUPLICATE OF:	CEF-B312-SD-001											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	426	J	G									

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-312-GW-01-02		
Lab Sample ID:	F10949-3	Date Sampled:	09/19/01
Matrix:	AQ - Ground Water	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013595.D	1	09/28/01	NAF	n/a	n/a	VH418
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	9.1	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	0.48	2.0	ug/l	J
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	0.60	6.0	ug/l	J

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-312-GW-01-02		
Lab Sample ID:	F10949-3	Date Sampled:	09/19/01
Matrix:	AQ - Ground Water	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

VOA TCL List

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

Report of Analysis

Client Sample ID:	CEF-57-58-IDW-SB-001		
Lab Sample ID:	F10949-9	Date Sampled:	09/19/01
Matrix:	SO - Soil	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	71.0
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	K006780.D	1	09/24/01	NAF	n/a	n/a	VK220
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	47.2	68	ug/kg	J
71-43-2	Benzene	ND	6.8	ug/kg	
75-27-4	Bromodichloromethane	ND	6.8	ug/kg	
75-25-2	Bromoform	ND	6.8	ug/kg	
108-90-7	Chlorobenzene	ND	6.8	ug/kg	
75-00-3	Chloroethane	ND	6.8	ug/kg	
67-66-3	Chloroform	ND	6.8	ug/kg	
75-15-0	Carbon disulfide	ND	14	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.8	ug/kg	
75-34-3	1,1-Dichloroethane	4.2	6.8	ug/kg	J
75-35-4	1,1-Dichloroethylene	ND	6.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.8	ug/kg	
124-48-1	Dibromochloromethane	ND	6.8	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.8	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.8	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.8	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.8	ug/kg	
100-41-4	Ethylbenzene	ND	6.8	ug/kg	
591-78-6	2-Hexanone	ND	14	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	14	ug/kg	
74-83-9	Methyl bromide	ND	6.8	ug/kg	
74-87-3	Methyl chloride	ND	6.8	ug/kg	
75-09-2	Methylene chloride	ND	14	ug/kg	
78-93-3	Methyl ethyl ketone	ND	14	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.8	ug/kg	
100-42-5	Styrene	ND	6.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.8	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.8	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.8	ug/kg	
108-88-3	Toluene	ND	6.8	ug/kg	
79-01-6	Trichloroethylene	ND	6.8	ug/kg	
75-01-4	Vinyl chloride	ND	6.8	ug/kg	
1330-20-7	Xylene (total)	ND	20	ug/kg	

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-57-58-IDW-SB-001		
Lab Sample ID:	F10949-9	Date Sampled:	09/19/01
Matrix:	SO - Soil	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	71.0
Project:	NAS Cecil Field-CTO0078/N0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		75-125%
2037-26-5	Toluene-D8	98%		75-125%
460-00-4	4-Bromofluorobenzene	105%		72-137%
17060-07-0	1,2-Dichloroethane-D4	108%		68-125%

(a) Sample introduction performed using method 5030A.

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01I-02		
Lab Sample ID:	F10949-4	Date Sampled:	09/19/01
Matrix:	AQ - Ground Water	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013587.D	1	09/27/01	NAF	n/a	n/a	VH416
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01I-02		
Lab Sample ID:	F10949-4	Date Sampled:	09/19/01
Matrix:	AQ - Ground Water	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	99%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-06S-02		
Lab Sample ID:	F10949-2	Date Sampled:	09/18/01
Matrix:	AQ - Ground Water	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013594.D	1	09/28/01	NAF	n/a	n/a	VH418
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	1.0	2.0	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-06S-02		
Lab Sample ID:	F10949-2	Date Sampled:	09/18/01
Matrix:	AQ - Ground Water	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	99%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-07S-03		
Lab Sample ID:	F10949-1	Date Sampled:	09/18/01
Matrix:	AQ - Ground Water	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013586.D	1	09/27/01	NAF	n/a	n/a	VH416
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-07S-03		
Lab Sample ID:	F10949-1	Date Sampled:	09/18/01
Matrix:	AQ - Ground Water	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	101%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-001		
Lab Sample ID:	F10949-5	Date Sampled:	09/19/01
Matrix:	SO - Soil	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	79.7
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K006774.D	1	09/24/01	NAF	n/a	n/a	VK220
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	56	ug/kg	
71-43-2	Benzene	ND	5.6	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	ug/kg	
75-25-2	Bromoform	ND	5.6	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	ug/kg	
75-00-3	Chloroethane	ND	5.6	ug/kg	
67-66-3	Chloroform	ND	5.6	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.6	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	ug/kg	
100-41-4	Ethylbenzene	ND	5.6	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.6	ug/kg	
74-87-3	Methyl chloride	ND	5.6	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.6	ug/kg	
100-42-5	Styrene	ND	5.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.6	ug/kg	
108-88-3	Toluene	ND	5.6	ug/kg	
79-01-6	Trichloroethylene	ND	5.6	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	ug/kg	
1330-20-7	Xylene (total)	ND	17	ug/kg	

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-001		
Lab Sample ID:	F10949-5	Date Sampled:	09/19/01
Matrix:	SO - Soil	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	79.7
Project:	NAS Cecil Field-CTO0078/N0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		75-125%
2037-26-5	Toluene-D8	98%		75-125%
460-00-4	4-Bromofluorobenzene	110%		72-137%
17060-07-0	1,2-Dichloroethane-D4	116%		68-125%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-DUP-1		
Lab Sample ID:	F10949-8	Date Sampled:	09/19/01
Matrix:	SO - Soil	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	77.2
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K006796.D	1	09/25/01	NAF	n/a	n/a	VK221
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	55	ug/kg	
71-43-2	Benzene	ND	5.5	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	ug/kg	
75-25-2	Bromoform	ND	5.5	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	ug/kg	
75-00-3	Chloroethane	ND	5.5	ug/kg	
67-66-3	Chloroform	ND	5.5	ug/kg	
75-15-0	Carbon disulfide	ND	11	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.5	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.5	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	ug/kg	
100-41-4	Ethylbenzene	ND	5.5	ug/kg	
591-78-6	2-Hexanone	ND	11	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	11	ug/kg	
74-83-9	Methyl bromide	ND	5.5	ug/kg	
74-87-3	Methyl chloride	ND	5.5	ug/kg	
75-09-2	Methylene chloride	ND	11	ug/kg	
78-93-3	Methyl ethyl ketone	ND	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.5	ug/kg	
100-42-5	Styrene	ND	5.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.5	ug/kg	
108-88-3	Toluene	ND	5.5	ug/kg	
79-01-6	Trichloroethylene	ND	5.5	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-DUP-1		
Lab Sample ID:	F10949-8	Date Sampled:	09/19/01
Matrix:	SO - Soil	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	77.2
Project:	NAS Cecil Field-CTO0078/N0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		75-125%
2037-26-5	Toluene-D8	92%		75-125%
460-00-4	4-Bromofluorobenzene	96%		72-137%
17060-07-0	1,2-Dichloroethane-D4	106%		68-125%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-002		
Lab Sample ID:	F10949-6	Date Sampled:	09/19/01
Matrix:	SO - Soil	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	82.8
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K006775.D	1	09/24/01	NAF	n/a	n/a	VK220
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.2	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	16	ug/kg	

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-002		
Lab Sample ID:	F10949-6	Date Sampled:	09/19/01
Matrix:	SO - Soil	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	82.8
Project:	NAS Cecil Field-CTO0078/N0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		75-125%
2037-26-5	Toluene-D8	100%		75-125%
460-00-4	4-Bromofluorobenzene	113%		72-137%
17060-07-0	1,2-Dichloroethane-D4	108%		68-125%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-003		
Lab Sample ID:	F10949-7	Date Sampled:	09/19/01
Matrix:	SO - Soil	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	79.8
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K006778.D	1	09/24/01	NAF	n/a	n/a	VK220
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	52	ug/kg	
71-43-2	Benzene	ND	5.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	ug/kg	
75-25-2	Bromoform	ND	5.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	ug/kg	
75-00-3	Chloroethane	ND	5.2	ug/kg	
67-66-3	Chloroform	ND	5.2	ug/kg	
75-15-0	Carbon disulfide	ND	10	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	ug/kg	
591-78-6	2-Hexanone	ND	10	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	ug/kg	
74-87-3	Methyl chloride	ND	5.2	ug/kg	
75-09-2	Methylene chloride	ND	10	ug/kg	
78-93-3	Methyl ethyl ketone	ND	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.2	ug/kg	
100-42-5	Styrene	ND	5.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	ug/kg	
108-88-3	Toluene	ND	5.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	ug/kg	
1330-20-7	Xylene (total)	ND	15	ug/kg	

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-003		
Lab Sample ID:	F10949-7	Date Sampled:	09/19/01
Matrix:	SO - Soil	Date Received:	09/20/01
Method:	SW846 8260B	Percent Solids:	79.8
Project:	NAS Cecil Field-CTO0078/N0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		75-125%
2037-26-5	Toluene-D8	96%		75-125%
460-00-4	4-Bromofluorobenzene	99%		72-137%
17060-07-0	1,2-Dichloroethane-D4	109%		68-125%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-312-GW-01-02		
Lab Sample ID:	F10949-3	**Date Sampled:**	09/19/01
Matrix:	AQ - Ground Water	**Date Received:**	09/20/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005182.D	1	09/26/01	MRE	09/21/01	OP3882	GEE238
Run #2 [a]	EE005202.D	2	09/26/01	MRE	09/21/01	OP3882	GEE239

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	49.5 [b]	4.4	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	112%	58%	33-141%
92-94-4	p-Terphenyl	87%	44%	31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01I-02		
Lab Sample ID:	F10949-4	**Date Sampled:**	09/19/01
Matrix:	AQ - Ground Water	**Date Received:**	09/20/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005183.D	1	09/26/01	MRE	09/21/01	OP3882	GEE238
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		33-141%
92-94-4	p-Terphenyl	89%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-06S-02		
Lab Sample ID:	F10949-2	**Date Sampled:**	09/18/01
Matrix:	AQ - Ground Water	**Date Received:**	09/20/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005181.D	1	09/26/01	MRE	09/21/01	OP3882	GEE238
Run #2 [a]	EE005201.D	2	09/26/01	MRE	09/21/01	OP3882	GEE239

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	47.6 [b]	4.4	ug/l	
90-12-0	1-Methylnaphthalene	4.5	2.2	ug/l	
91-57-6	2-Methylnaphthalene	3.5	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%	90%	33-141%
92-94-4	p-Terphenyl	78%	78%	31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-07S-03		
Lab Sample ID:	F10949-1	**Date Sampled:**	09/18/01
Matrix:	AQ - Ground Water	**Date Received:**	09/20/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005180.D	1	09/26/01	MRE	09/21/01	OP3882	GEE238
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		33-141%
92-94-4	p-Terphenyl	86%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-57-58-IDW-SB-001		
Lab Sample ID:	F10949-9	**Date Sampled:**	09/19/01
Matrix:	SO - Soil	**Date Received:**	09/20/01
Method:	EPA 8310 SW846 3550B	**Percent Solids:**	71.0
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005100.D	1	09/24/01	MRE	09/21/01	OP3877	GEE237
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	940	ug/kg	
208-96-8	Acenaphthylene	ND	940	ug/kg	
120-12-7	Anthracene	ND	470	ug/kg	
56-55-3	Benzo(a)anthracene	ND	470	ug/kg	
50-32-8	Benzo(a)pyrene	ND	94	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	94	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	94	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	94	ug/kg	
218-01-9	Chrysene	ND	470	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	94	ug/kg	
206-44-0	Fluoranthene	ND	470	ug/kg	
86-73-7	Fluorene	ND	470	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	94	ug/kg	
91-20-3	Naphthalene	ND	470	ug/kg	
90-12-0	1-Methylnaphthalene	ND	470	ug/kg	
91-57-6	2-Methylnaphthalene	ND	470	ug/kg	
85-01-8	Phenanthrene	ND	470	ug/kg	
129-00-0	Pyrene	ND	470	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		37-158%
92-94-4	p-Terphenyl	89%		59-149%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-001		
Lab Sample ID:	F10949-5	**Date Sampled:**	09/19/01
Matrix:	SO - Soil	**Date Received:**	09/20/01
Method:	EPA 8310 SW846 3550B	**Percent Solids:**	79.7
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005092.D	5	09/24/01	MRE	09/21/01	OP3877	GEE237
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4200	ug/kg	
208-96-8	Acenaphthylene	ND	4200	ug/kg	
120-12-7	Anthracene	ND	2100	ug/kg	
56-55-3	Benzo(a)anthracene	2650	2100	ug/kg	
50-32-8	Benzo(a)pyrene	3030	420	ug/kg	
205-99-2	Benzo(b)fluoranthene	1570	420	ug/kg	
191-24-2	Benzo(g,h,i)perylene	3400	420	ug/kg	
207-08-9	Benzo(k)fluoranthene	775	420	ug/kg	
218-01-9	Chrysene	2770	2100	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	301	420	ug/kg	J
206-44-0	Fluoranthene	6790	2100	ug/kg	
86-73-7	Fluorene	ND	2100	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	2030	420	ug/kg	
91-20-3	Naphthalene	ND	2100	ug/kg	
90-12-0	1-Methylnaphthalene	ND	2100	ug/kg	
91-57-6	2-Methylnaphthalene	ND	2100	ug/kg	
85-01-8	Phenanthrene	5790	2100	ug/kg	
129-00-0	Pyrene	5820	2100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	140%		37-158%
92-94-4	p-Terphenyl	96%		59-149%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-002		
Lab Sample ID:	F10949-6	**Date Sampled:**	09/19/01
Matrix:	SO - Soil	**Date Received:**	09/20/01
Method:	EPA 8310 SW846 3550B	**Percent Solids:**	82.8
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005098.D	1	09/24/01	MRE	09/21/01	OP3877	GEE237
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	800	ug/kg	
208-96-8	Acenaphthylene	ND	800	ug/kg	
120-12-7	Anthracene	ND	400	ug/kg	
56-55-3	Benzo(a)anthracene	ND	400	ug/kg	
50-32-8	Benzo(a)pyrene	78.3	80	ug/kg	J
205-99-2	Benzo(b)fluoranthene	70.7	80	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	152	80	ug/kg	
207-08-9	Benzo(k)fluoranthene	44.4	80	ug/kg	J
218-01-9	Chrysene	ND	400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	80	ug/kg	
206-44-0	Fluoranthene	169	400	ug/kg	J
86-73-7	Fluorene [b]	ND	1200	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	87.7	80	ug/kg	
91-20-3	Naphthalene	ND	400	ug/kg	
90-12-0	1-Methylnaphthalene	ND	400	ug/kg	
91-57-6	2-Methylnaphthalene	ND	400	ug/kg	
85-01-8	Phenanthrene	ND	400	ug/kg	
129-00-0	Pyrene	178	400	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		37-158%
92-94-4	p-Terphenyl	90%		59-149%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Elevated reporting limits due to matrix interference.

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-003		
Lab Sample ID:	F10949-7	**Date Sampled:**	09/19/01
Matrix:	SO - Soil	**Date Received:**	09/20/01
Method:	EPA 8310 SW846 3550B	**Percent Solids:**	79.8
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005096.D	1	09/24/01	MRE	09/21/01	OP3877	GEE237
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	840	ug/kg	
208-96-8	Acenaphthylene	ND	840	ug/kg	
120-12-7	Anthracene	ND	420	ug/kg	
56-55-3	Benzo(a)anthracene	ND	420	ug/kg	
50-32-8	Benzo(a)pyrene	ND	84	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	84	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	84	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	84	ug/kg	
218-01-9	Chrysene	ND	420	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	84	ug/kg	
206-44-0	Fluoranthene	ND	420	ug/kg	
86-73-7	Fluorene	ND	420	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	84	ug/kg	
91-20-3	Naphthalene	ND	420	ug/kg	
90-12-0	1-Methylnaphthalene	ND	420	ug/kg	
91-57-6	2-Methylnaphthalene	ND	420	ug/kg	
85-01-8	Phenanthrene	ND	420	ug/kg	
129-00-0	Pyrene	ND	420	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		37-158%
92-94-4	p-Terphenyl	77%		59-149%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-DUP-1		
Lab Sample ID:	F10949-8	**Date Sampled:**	09/19/01
Matrix:	SO - Soil	**Date Received:**	09/20/01
Method:	EPA 8310 SW846 3550B	**Percent Solids:**	77.2
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005099.D	1	09/24/01	MRE	09/21/01	OP3877	GEE237
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	860	ug/kg	
208-96-8	Acenaphthylene	ND	860	ug/kg	
120-12-7	Anthracene	ND	430	ug/kg	
56-55-3	Benzo(a)anthracene	ND	430	ug/kg	
50-32-8	Benzo(a)pyrene	108	86	ug/kg	
205-99-2	Benzo(b)fluoranthene	95.0	86	ug/kg	
191-24-2	Benzo(g,h,i)perylene	245	86	ug/kg	
207-08-9	Benzo(k)fluoranthene	59.1	86	ug/kg	J
218-01-9	Chrysene	ND	430	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	86	ug/kg	
206-44-0	Fluoranthene	240	430	ug/kg	J
86-73-7	Fluorene	ND	430	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	134	86	ug/kg	
91-20-3	Naphthalene	ND	430	ug/kg	
90-12-0	1-Methylnaphthalene	ND	430	ug/kg	
91-57-6	2-Methylnaphthalene	ND	430	ug/kg	
85-01-8	Phenanthrene	ND	430	ug/kg	
129-00-0	Pyrene	209	430	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		37-158%
92-94-4	p-Terphenyl	77%		59-149%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-312-GW-01-02		
Lab Sample ID:	F10949-3	**Date Sampled:**	09/19/01
Matrix:	AQ - Ground Water	**Date Received:**	09/20/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17194.D	2	09/26/01	ME	09/24/01	OP3887	GOP666
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.36	0.55	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01I-02		
Lab Sample ID:	F10949-4	**Date Sampled:**	09/19/01
Matrix:	AQ - Ground Water	**Date Received:**	09/20/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17189.D	1	09/26/01	ME	09/24/01	OP3887	GOP666
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-06S-02		
Lab Sample ID:	F10949-2	**Date Sampled:**	09/18/01
Matrix:	AQ - Ground Water	**Date Received:**	09/20/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17187.D	4	09/26/01	ME	09/24/01	OP3887	GOP666
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	2.89	1.1	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-07S-03		
Lab Sample ID:	F10949-1	**Date Sampled:**	09/18/01
Matrix:	AQ - Ground Water	**Date Received:**	09/20/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17186.D	1	09/26/01	ME	09/24/01	OP3887	GOP666
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	91%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-57-58-IDW-SB-001		
Lab Sample ID:	F10949-9	**Date Sampled:**	09/19/01
Matrix:	SO - Soil	**Date Received:**	09/20/01
Method:	FLORIDA-PRO SW846 3550B	**Percent Solids:**	71.0
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17228.D	1	09/27/01	ME	09/25/01	OP3900	GOP667
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		66-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-001		
Lab Sample ID:	F10949-5	**Date Sampled:**	09/19/01
Matrix:	SO - Soil	**Date Received:**	09/20/01
Method:	FLORIDA-PRO SW846 3550B	**Percent Solids:**	79.7
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17224.D	8	09/27/01	ME	09/25/01	OP3900	GOP667
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	192	83	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		66-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-002		
Lab Sample ID:	F10949-6	**Date Sampled:**	09/19/01
Matrix:	SO - Soil	**Date Received:**	09/20/01
Method:	FLORIDA-PRO SW846 3550B	**Percent Solids:**	82.8
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17225.D	5	09/27/01	ME	09/25/01	OP3900	GOP667
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	127	51	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		66-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-003		
Lab Sample ID:	F10949-7	**Date Sampled:**	09/19/01
Matrix:	SO - Soil	**Date Received:**	09/20/01
Method:	FLORIDA-PRO SW846 3550B	**Percent Solids:**	79.8
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17210.D	4	09/27/01	ME	09/25/01	OP3900	GOP666
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	83.8	42	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		66-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SD-DUP-1		
Lab Sample ID:	F10949-8	**Date Sampled:**	09/19/01
Matrix:	SO - Soil	**Date Received:**	09/20/01
Method:	FLORIDA-PRO SW846 3550B	**Percent Solids:**	77.2
Project:	NAS Cecil Field-CTO0078/N0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17211.D	20	09/27/01	ME	09/25/01	OP3900	GOP666
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	426	210	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	113%		66-130%

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

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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. SPERANZA** **DATE:** **JANUARY 28, 2002**

FROM: **BERNARD F SPADA III** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOA/PAH/PET**
CTO 078, NAS CECIL FIELD
SDG F11021

SAMPLES: 15/Aqueous

CEF-824A-GW-01SA-05	CEF-824A-GW-05S-03	CEF-824A-GW-06I-02
CEF-824A-GW-12I-02	CEF-824A-GW-13D-01	CEF-B312-DUP-01
CEF-B312-GW-04S-02	CEF-B312-GW-08S-03	CEF-B312-GW-09S-01
CEF-B312-GW-10S-01	CEF-B312-GW-11S-01	CEF-B312-GW-12S-01
CEF-B312-GW-13S-01	CEF-B312-GW-14S-01	CEF-B312-GW-15I-01

OVERVIEW

The sample set for CTO 078, NAS Cecil Field, SDG F11021 consists of fifteen (15) aqueous environmental samples. The samples were analyzed for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and petroleum (PET).

The samples were collected by TetraTech NUS on September 25, 2001 and analyzed by Accutest. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Methods 8260B, 8310, and Florida PRO analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
• Initial and continuing calibration
* • Laboratory method and field quality control blank results
* • Field duplicate results
* • Detection Limits

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.

Volatiles

Several samples had positive results below the detection limit. These results were qualified as estimated (J) due to uncertainty near detection limit.

Samples CEF-B312-GW-08S-03 and CEF-B312-DUP-01 were analyzed at a 10X dilution due to the presence of 1,1,1-trichloroethane and 1,1-dichloroethane.

The RRF for bromomethane was less than 0.05 for the continuing calibration run on October 3, 2001 and associated with samples CEF-824A-GW-01SA-05, CEF-824A-GW-05S-03, CEF-824A-GW-06I-02, CEF-824A-GW-12I-02, and CEF-824A-GW-13D-01. Non-detects were qualified as rejected (UR) for this

compound.

The RRFs for bromomethane and chloroethane were less than 0.05 for the continuing calibration run on October 4,2001 and associated with samples CEF-B312-GW-DUP-01 and CEF-B312-GW-04S-02. Non-detects for these compounds were qualified as rejected (UR).

PAH

Several samples had positive results below the detection limit. These results were qualified as estimated (J) due to uncertainty near detection limit.

PET

No qualifiers were assigned to this fraction.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Qualifications were made based on continuing calibration RRF and uncertainty near the detection limit.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines (September, 1999). 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)."

Bernard F Spada III

Tetra Tech NUS
Bernard F Spada III
Chemist/Data Validator

Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

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
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-824A-GW-01SA-05			CEF-824A-GW-05S-03			CEF-824A-GW-06I-02			CEF-824A-GW-12I-02		
SAMPLE DATE:	09/25/01			09/25/01			09/25/01			09/25/01		
LABORATORY ID:	F11021-15			F11021-13			F11021-14			F11021-12		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHENE	2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		1	U		3.5		
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	UR	C	5	UR	C	5	UR	C	5	UR	C
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	2	U		2	U		2	U		2	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	2	U		2	U		2	U		10.4		
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		1	J	P
TOLUENE	2	U		2	U		2	U		2	U	
TOTAL XYLENES	6	U		6	U		6	U		36.2		
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-824A-GW-01SA-05			CEF-824A-GW-05S-03			CEF-824A-GW-06I-02			CEF-824A-GW-12I-02		
SAMPLE DATE:	09/25/01			09/25/01			09/25/01			09/25/01		
LABORATORY ID:	F11021-15			F11021-13			F11021-14			F11021-12		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
TRICHLOROETHENE	2	U		2	U		2	U		2	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-824A-GW-13D-01			CEF-B312-DUP01			CEF-B312-GW-04S-02			CEF-B312-GW-08S-03		
SAMPLE DATE:	09/25/01			09/25/01			09/25/01			09/25/01		
LABORATORY ID:	F11021-11			F11021-10			F11021-9			F11021-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:				CEF-B312-GW-08S-03								
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		811			2	U		871		
1,1,2,2-TETRACHLOROETHANE	2	U		20	U		2	U		20	U	
1,1,2-TRICHLOROETHANE	2	U		20	U		2	U		20	U	
1,1-DICHLOROETHANE	2	U		416			2.2			426		
1,1-DICHLOROETHENE	2	U		129			2	U		131		
1,2-DICHLOROETHANE	2	U		20	U		2	U		20	U	
1,2-DICHLOROPROPANE	2	U		20	U		2	U		20	U	
2-BUTANONE	10	U		100	U		10	U		100	U	
2-HEXANONE	10	U		100	U		10	U		100	U	
4-METHYL-2-PENTANONE	10	U		100	U		10	U		100	U	
ACETONE	50	U		500	U		50	U		500	U	
BENZENE	1	U		10	U		1	U		10	U	
BROMODICHLOROMETHANE	2	U		20	U		2	U		20	U	
BROMOFORM	2	U		20	U		2	U		20	U	
BROMOMETHANE	5	UR	C	50	UR	C	5	UR	C	50	U	
CARBON DISULFIDE	10	U		100	U		10	U		100	U	
CARBON TETRACHLORIDE	2	U		20	U		2	U		20	U	
CHLOROBENZENE	2	U		20	U		2	U		20	U	
CHLORODIBROMOMETHANE	2	U		20	U		2	U		20	U	
CHLOROETHANE	5	U		50	UR	C	5	UR	C	50	U	
CHLOROFORM	2	U		20	U		2	U		20	U	
CHLOROMETHANE	5	U		50	U		5	U		50	U	
CIS-1,2-DICHLOROETHENE	2	U		20	U		2	U		20	U	
CIS-1,3-DICHLOROPROPENE	2	U		20	U		2	U		20	U	
ETHYLBENZENE	2	U		12.3	J	P	2	U		15.1	J	P
METHYLENE CHLORIDE	5	U		50	U		5	U		50	U	
STYRENE	2	U		20	U		2	U		20	U	
TETRACHLOROETHENE	2	U		20	U		2	U		20	U	
TOLUENE	2	U		21.7			2	U		24.6		
TOTAL XYLENES	6	U		59.7	J	P	6	U		70.3		
TRANS-1,2-DICHLOROETHENE	2	U		20	U		2	U		20	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-824A-GW-13D-01	CEF-B312-DUP01	CEF-B312-GW-04S-02	CEF-B312-GW-08S-03
SAMPLE DATE:	09/25/01	09/25/01	09/25/01	09/25/01
LABORATORY ID:	F11021-11	F11021-10	F11021-9	F11021-3
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:		CEF-B312-GW-08S-03		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		20	U		2	U		20	U	
TRICHLOROETHENE	2	U		20	U		2	U		20	U	
VINYL CHLORIDE	1	U		10	U		1	U		10	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-B312-GW-09S-01			CEF-B312-GW-10S-01			CEF-B312-GW-11S-01			CEF-B312-GW-12S-01		
SAMPLE DATE:	09/25/01			09/25/01			09/25/01			09/25/01		
LABORATORY ID:	F11021-8			F11021-5			F11021-1			F11021-7		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	2	U		2	U		5.7			3.7		
1,1-DICHLOROETHENE	2	U		2	U		1.6	J	P	1.8	J	P
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		5.1	J	P
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	2	U		1	J	P	2	U		2	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	2	U		2	U		1.1	J	P	2	U	
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		2	U	
TOLUENE	2	U		2	U		2	U		2	U	
TOTAL XYLENES	6	U		6	U		3	J	P	6	U	
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-B312-GW-09S-01			CEF-B312-GW-10S-01			CEF-B312-GW-11S-01			CEF-B312-GW-12S-01		
SAMPLE DATE:	09/25/01			09/25/01			09/25/01			09/25/01		
LABORATORY ID:	F11021-8			F11021-5			F11021-1			F11021-7		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
TRICHLOROETHENE	2	U		2	U		2	U		2	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-B312-GW-13S-01	CEF-B312-GW-14S-01	CEF-B312-GW-15I-01	
SAMPLE DATE:	09/25/01	09/25/01	09/25/01	/ /
LABORATORY ID:	F11021-2	F11021-6	F11021-4	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U				
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U				
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U				
1,1-DICHLOROETHANE	5.1			2	U		2	U				
1,1-DICHLOROETHENE	2	U		2	U		2	U				
1,2-DICHLOROETHANE	2	U		2	U		2	U				
1,2-DICHLOROPROPANE	2	U		2	U		2	U				
2-BUTANONE	10	U		10	U		10	U				
2-HEXANONE	10	U		10	U		10	U				
4-METHYL-2-PENTANONE	10	U		10	U		10	U				
ACETONE	50	U		50	U		50	U				
BENZENE	1	U		1	U		1	U				
BROMODICHLOROMETHANE	2	U		2	U		2	U				
BROMOFORM	2	U		2	U		2	U				
BROMOMETHANE	5	U		5	U		5	U				
CARBON DISULFIDE	10	U		10	U		10	U				
CARBON TETRACHLORIDE	2	U		2	U		2	U				
CHLOROBENZENE	2	U		2	U		2	U				
CHLORODIBROMOMETHANE	2	U		2	U		2	U				
CHLOROETHANE	5	U		5	U		5	U				
CHLOROFORM	2	U		2	U		2	U				
CHLOROMETHANE	5	U		5	U		5	U				
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U				
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U				
ETHYLBENZENE	2	U		2	U		2	U				
METHYLENE CHLORIDE	5	U		5	U		5	U				
STYRENE	2	U		2	U		2	U				
TETRACHLOROETHENE	2	U		2	U		2	U				
TOLUENE	2	U		2	U		2	U				
TOTAL XYLENES	6	U		6	U		6	U				
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U				

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-B312-GW-13S-01	CEF-B312-GW-14S-01	CEF-B312-GW-15I-01	
SAMPLE DATE:	09/25/01	09/25/01	09/25/01	/ /
LABORATORY ID:	F11021-2	F11021-6	F11021-4	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U				
TRICHLOROETHENE	2	U		2	U		2	U				
VINYL CHLORIDE	1	U		1	U		1	U				

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-824A-GW-01SA-05			CEF-824A-GW-05S-03			CEF-824A-GW-06I-02			CEF-824A-GW-12I-02		
SAMPLE DATE:	09/25/01			09/25/01			09/25/01			09/25/01		
LABORATORY ID:	F11021-15			F11021-13			F11021-14			F11021-12		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		2.0	U		2.0	U		2.0	U	

SAMPLE NUMBER:	CEF-824A-GW-13D-01			CEF-B312-DUP01			CEF-B312-GW-04S-02			CEF-B312-GW-08S-03		
SAMPLE DATE:	09/25/01			09/25/01			09/25/01			09/25/01		
LABORATORY ID:	F11021-11			F11021-10			F11021-9			F11021-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:				CEF-B312-GW-08S-03								
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		20	U		2.0	U		20	U	

SAMPLE NUMBER:	CEF-B312-GW-09S-01			CEF-B312-GW-10S-01			CEF-B312-GW-11S-01			CEF-B312-GW-12S-01		
SAMPLE DATE:	09/25/01			09/25/01			09/25/01			09/25/01		
LABORATORY ID:	F11021-8			F11021-5			F11021-1			F11021-7		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		2.0	U		2.0	U		2.0	U	

SAMPLE NUMBER:	CEF-B312-GW-13S-01	CEF-B312-GW-14S-01	CEF-B312-GW-15I-01	
SAMPLE DATE:	09/25/01	09/25/01	09/25/01	/ /
LABORATORY ID:	F11021-2	F11021-6	F11021-4	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		2.0	U		2.0	U				

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-824A-GW-01SA-05	CEF-824A-GW-05S-03	CEF-824A-GW-06I-02	CEF-824A-GW-12I-02
SAMPLE DATE:	09/25/01	09/25/01	09/25/01	09/25/01
LABORATORY ID:	F11021-15	F11021-13	F11021-14	F11021-12
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.1	J	P	2.2	U		2	U		12.5		
2-METHYLNAPHTHALENE	3.7			2.2	U		2	U		12.3		
ACENAPHTHENE	4.4	U		4.4	U		4	U		4.4	U	
ACENAPHTHYLENE	4.4	U		4.4	U		4	U		4.4	U	
ANTHRACENE	2.2	U		2.2	U		2	U		2.2	U	
BENZO(A)ANTHRACENE	0.22	U		0.22	U		0.2	U		0.22	U	
BENZO(A)PYRENE	0.22	U		0.22	U		0.2	U		0.22	U	
BENZO(B)FLUORANTHENE	0.22	U		0.22	U		0.2	U		0.22	U	
BENZO(G,H,I)PERYLENE	0.22	U		0.22	U		0.2	U		0.22	U	
BENZO(K)FLUORANTHENE	0.22	U		0.22	U		0.2	U		0.22	U	
CHRYSENE	2.2	U		2.2	U		2	U		2.2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U		0.22	U		0.2	U		0.22	U	
FLUORANTHENE	2.2	U		2.2	U		2	U		2.2	U	
FLUORENE	2.2	U		2.2	U		2	U		2.2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U		0.22	U		0.2	U		0.22	U	
NAPHTHALENE	2.2	U		2.2	U		2	U		49.1		
PHENANTHRENE	2.2	U		2.2	U		2	U		2.2	U	
PYRENE	2.2	U		2.2	U		2	U		2.2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-824A-GW-13D-01	CEF-B312-DUP01	CEF-B312-GW-04S-02	CEF-B312-GW-08S-03
SAMPLE DATE:	09/25/01	09/25/01	09/25/01	09/25/01
LABORATORY ID:	F11021-11	F11021-10	F11021-9	F11021-3
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:		CEF-B312-GW-08S-03		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2	U		5.1			2	U		5.1		
2-METHYLNAPHTHALENE	2	U		4.6			2	U		4.7		
ACENAPHTHENE	4	U		17	U		4	U		17	U	
ACENAPHTHYLENE	4	U		4.4	U		4	U		4.4	U	
ANTHRACENE	2	U		2.2	U		2	U		2.2	U	
BENZO(A)ANTHRACENE	0.2	U		0.22	U		0.2	U		0.22	U	
BENZO(A)PYRENE	0.2	U		0.22	U		0.2	U		0.22	U	
BENZO(B)FLUORANTHENE	0.2	U		0.22	U		0.2	U		0.22	U	
BENZO(G,H,I)PERYLENE	0.2	U		0.22	U		0.2	U		0.22	U	
BENZO(K)FLUORANTHENE	0.2	U		0.22	U		0.2	U		0.22	U	
CHRYSENE	2	U		2.2	U		2	U		2.2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U		0.22	U		0.2	U		0.22	U	
FLUORANTHENE	2	U		2.2	U		2	U		2.2	U	
FLUORENE	2	U		2.2	U		2	U		2.2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U		0.22	U		0.2	U		0.22	U	
NAPHTHALENE	2	U		76.3			0.96	J	P	80		
PHENANTHRENE	2	U		2.2	U		2	U		2.2	U	
PYRENE	2	U		2.2	U		2	U		2.2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-B312-GW-09S-01	CEF-B312-GW-10S-01	CEF-B312-GW-11S-01	CEF-B312-GW-12S-01
SAMPLE DATE:	09/25/01	09/25/01	09/25/01	09/25/01
LABORATORY ID:	F11021-8	F11021-5	F11021-1	F11021-7
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U		2.2	U		3.5			2	U	
2-METHYLNAPHTHALENE	2.2	U		2.2	U		2	U		2	U	
ACENAPHTHENE	4.4	U		4.4	U		4	U		4	U	
ACENAPHTHYLENE	4.4	U		4.4	U		4	U		4	U	
ANTHRACENE	2.2	U		2.2	U		2	U		2	U	
BENZO(A)ANTHRACENE	0.22	U		0.22	U		0.2	U		0.2	U	
BENZO(A)PYRENE	0.22	U		0.22	U		0.2	U		0.2	U	
BENZO(B)FLUORANTHENE	0.22	U		0.22	U		0.2	U		0.2	U	
BENZO(G,H,I)PERYLENE	0.22	U		0.22	U		0.2	U		0.2	U	
BENZO(K)FLUORANTHENE	0.22	U		0.22	U		0.2	U		0.2	U	
CHRYSENE	2.2	U		2.2	U		2	U		2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U		0.22	U		0.2	U		0.2	U	
FLUORANTHENE	2.2	U		2.2	U		2	U		2	U	
FLUORENE	2.2	U		2.2	U		2	U		2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U		0.22	U		0.2	U		0.2	U	
NAPHTHALENE	2.2	U		2.2	U		2	U		1.7	J	P
PHENANTHRENE	2.2	U		2.2	U		2	U		2	U	
PYRENE	2.2	U		2.2	U		2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-B312-GW-13S-01	CEF-B312-GW-14S-01	CEF-B312-GW-15I-01	
SAMPLE DATE:	09/25/01	09/25/01	09/25/01	/ /
LABORATORY ID:	F11021-2	F11021-6	F11021-4	
QC_TYPE:	NORMAL	NORMAL	NORMAL	
% SOLIDS:	0.0 %	0.0 %	0.0 %	100.0 %
UNITS:	UG/L	UG/L	UG/L	
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U		2	U		2.2	U				
2-METHYLNAPHTHALENE	2.2	U		2	U		2.2	U				
ACENAPHTHENE	4.4	U		4	U		4.4	U				
ACENAPHTHYLENE	4.4	U		4	U		4.4	U				
ANTHRACENE	2.2	U		2	U		2.2	U				
BENZO(A)ANTHRACENE	0.22	U		0.2	U		0.22	U				
BENZO(A)PYRENE	0.22	U		0.2	U		0.22	U				
BENZO(B)FLUORANTHENE	0.22	U		0.2	U		0.22	U				
BENZO(G,H,I)PERYLENE	0.22	U		0.2	U		0.22	U				
BENZO(K)FLUORANTHENE	0.22	U		0.2	U		0.22	U				
CHRYSENE	2.2	U		2	U		2.2	U				
DIBENZO(A,H)ANTHRACENE	0.22	U		0.2	U		0.22	U				
FLUORANTHENE	2.2	U		2	U		2.2	U				
FLUORENE	2.2	U		2	U		2.2	U				
INDENO(1,2,3-CD)PYRENE	0.22	U		0.2	U		0.22	U				
NAPHTHALENE	2.2	U		2	U		2.2	U				
PHENANTHRENE	2.2	U		2	U		2.2	U				
PYRENE	2.2	U		2	U		2.2	U				

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-824A-GW-01SA-05			CEF-824A-GW-05S-03			CEF-824A-GW-06I-02			CEF-824A-GW-12I-02		
SAMPLE DATE:	09/25/01			09/25/01			09/25/01			09/25/01		
LABORATORY ID:	F11021-15			F11021-13			F11021-14			F11021-12		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.482			0.28	U		0.267			3.28		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-824A-GW-13D-01			CEF-B312-DUP01			CEF-B312-GW-04S-02			CEF-B312-GW-08S-03		
SAMPLE DATE:	09/25/01			09/25/01			09/25/01			09/25/01		
LABORATORY ID:	F11021-11			F11021-10			F11021-9			F11021-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:				CEF-B312-GW-08S-03								
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.25	U		1.18			0.28	U		1.29		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-B312-GW-09S-01	CEF-B312-GW-10S-01	CEF-B312-GW-11S-01	CEF-B312-GW-12S-01
SAMPLE DATE:	09/25/01	09/25/01	09/25/01	09/25/01
LABORATORY ID:	F11021-8	F11021-5	F11021-1	F11021-7
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	MG/L	MG/L	MG/L	MG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.28	U		0.28	U		2.19			0.25	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11021

SAMPLE NUMBER:	CEF-B312-GW-13S-01			CEF-B312-GW-14S-01			CEF-B312-GW-15I-01					
SAMPLE DATE:	09/25/01			09/25/01			09/25/01			/ /		
LABORATORY ID:	F11021-2			F11021-6			F11021-4					
QC_TYPE:	NORMAL			NORMAL			NORMAL					
% SOLIDS:	0.0 %			0.0 %			0.0 %			100.0 %		
UNITS:	MG/L			MG/L			MG/L					
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.84			0.25	U		0.28	U				

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-04S-02		
Lab Sample ID:	F11021-9	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015446.D	1	10/04/01	KW	n/a	n/a	VG469
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	2.2	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-04S-02		
Lab Sample ID:	F11021-9	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	101%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP01		
Lab Sample ID:	F11021-10	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015447.D	10	10/04/01	KW	n/a	n/a	VG469
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	500	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	ug/l	
75-25-2	Bromoform	ND	20	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	20	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	20	ug/l	
75-34-3	1,1-Dichloroethane	416	20	ug/l	
75-35-4	1,1-Dichloroethylene	129	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	ug/l	
124-48-1	Dibromochloromethane	ND	20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	ug/l	
100-41-4	Ethylbenzene	12.3	20	ug/l	J
591-78-6	2-Hexanone	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	100	ug/l	
74-83-9	Methyl bromide	ND	50	ug/l	
74-87-3	Methyl chloride	ND	50	ug/l	
75-09-2	Methylene chloride	ND	50	ug/l	
78-93-3	Methyl ethyl ketone	ND	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	ug/l	
100-42-5	Styrene	ND	20	ug/l	
71-55-6	1,1,1-Trichloroethane	811	20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethylene	ND	20	ug/l	
108-88-3	Toluene	21.7	20	ug/l	
79-01-6	Trichloroethylene	ND	20	ug/l	
75-01-4	Vinyl chloride	ND	10	ug/l	
1330-20-7	Xylene (total)	59.7	60	ug/l	J

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP01		
Lab Sample ID:	F11021-10	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

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

Report of Analysis

Client Sample ID:	CEF-824A-GW-01SA-05		
Lab Sample ID:	F11021-15	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015429.D	1	10/03/01	KW	n/a	n/a	VG468
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-01SA-05		
Lab Sample ID:	F11021-15	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-05S-03		
Lab Sample ID:	F11021-13	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015427.D	1	10/03/01	KW	n/a	n/a	VG468
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-05S-03		
Lab Sample ID:	F11021-13	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	101%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-06I-02		
Lab Sample ID:	F11021-14	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015428.D	1	10/03/01	KW	n/a	n/a	VG468
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-06I-02		
Lab Sample ID:	F11021-14	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	110%		80-120%
2037-26-5	Toluene-D8	98%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-12I-02		
Lab Sample ID:	F11021-12	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015426.D	1	10/03/01	KW	n/a	n/a	VG468
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	3.5	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	10.4	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	1.0	2.0	ug/l	J
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	36.2	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-12I-02		
Lab Sample ID:	F11021-12	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	107%		80-120%
2037-26-5	Toluene-D8	99%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-13D-01		
Lab Sample ID:	F11021-11	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015425.D	1	10/03/01	KW	n/a	n/a	VG468
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-13D-01		
Lab Sample ID:	F11021-11	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	101%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-08S-03		
Lab Sample ID:	F11021-3	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G015410.D	10	10/02/01	KW	n/a	n/a	VG467
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	500	ug/l	
71-43-2	Benzene	ND	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	ug/l	
75-25-2	Bromoform	ND	20	ug/l	
108-90-7	Chlorobenzene	ND	20	ug/l	
75-00-3	Chloroethane	ND	50	ug/l	
67-66-3	Chloroform	ND	20	ug/l	
75-15-0	Carbon disulfide	ND	100	ug/l	
56-23-5	Carbon tetrachloride	ND	20	ug/l	
75-34-3	1,1-Dichloroethane	426	20	ug/l	
75-35-4	1,1-Dichloroethylene	131	20	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	ug/l	
124-48-1	Dibromochloromethane	ND	20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	ug/l	
100-41-4	Ethylbenzene	15.1	20	ug/l	J
591-78-6	2-Hexanone	ND	100	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	100	ug/l	
74-83-9	Methyl bromide	ND	50	ug/l	
74-87-3	Methyl chloride	ND	50	ug/l	
75-09-2	Methylene chloride	ND	50	ug/l	
78-93-3	Methyl ethyl ketone	ND	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	ug/l	
100-42-5	Styrene	ND	20	ug/l	
71-55-6	1,1,1-Trichloroethane	871	20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	ug/l	
127-18-4	Tetrachloroethylene	ND	20	ug/l	
108-88-3	Toluene	24.6	20	ug/l	
79-01-6	Trichloroethylene	ND	20	ug/l	
75-01-4	Vinyl chloride	ND	10	ug/l	
1330-20-7	Xylene (total)	70.3	60	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-08S-03		
Lab Sample ID:	F11021-3	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	95%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-09S-01		
Lab Sample ID:	F11021-8	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G015415.D	1	10/02/01	KW	n/a	n/a	VG467
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-09S-01		
Lab Sample ID:	F11021-8	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	101%		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 blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-10S-01		
Lab Sample ID:	F11021-5	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G015412.D	1	10/02/01	KW	n/a	n/a	VG467
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	1.0	2.0	ug/l	J
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-10S-01		
Lab Sample ID:	F11021-5	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	97%		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 blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-11S-01		
Lab Sample ID:	F11021-1	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G015406.D	1	10/02/01	KW	n/a	n/a	VG467
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	5.7	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	1.6	2.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	1.1	2.0	ug/l	J
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	3.0	6.0	ug/l	J

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-11S-01		
Lab Sample ID:	F11021-1	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-12S-01		
Lab Sample ID:	F11021-7	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G015414.D	1	10/02/01	KW	n/a	n/a	VG467
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	3.7	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	1.8	2.0	ug/l	J
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	5.1	10	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-12S-01		
Lab Sample ID:	F11021-7	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	109%		80-120%
2037-26-5	Toluene-D8	98%		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 blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-13S-01		
Lab Sample ID:	F11021-2	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G015407.D	1	10/02/01	KW	n/a	n/a	VG467
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	5.1	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-13S-01		
Lab Sample ID:	F11021-2	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	95%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-14S-01		
Lab Sample ID:	F11021-6	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G015413.D	1	10/02/01	KW	n/a	n/a	VG467
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-14S-01		
Lab Sample ID:	F11021-6	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-120%
17060-07-0	1,2-Dichloroethane-D4	105%		80-120%
2037-26-5	Toluene-D8	99%		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 blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-15I-01		
Lab Sample ID:	F11021-4	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G015411.D	1	10/02/01	KW	n/a	n/a	VG467
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-15I-01		
Lab Sample ID:	F11021-4	Date Sampled:	09/25/01
Matrix:	AQ - Ground Water	Date Received:	09/26/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	104%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-01SA-05		
Lab Sample ID:	F11021-15	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005250.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	2.1	2.2	ug/l	J
91-57-6	2-Methylnaphthalene	3.7	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		33-141%
92-94-4	p-Terphenyl	60%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-05S-03		
Lab Sample ID:	F11021-13	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005247.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		33-141%
92-94-4	p-Terphenyl	83%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-06I-02		
Lab Sample ID:	F11021-14	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005248.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		33-141%
92-94-4	p-Terphenyl	47%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-12I-02		
Lab Sample ID:	F11021-12	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005246.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2 [a]	EE005264.D	2	10/04/01	MRE	10/01/01	OP3929	GEE243

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	49.1 [b]	4.4	ug/l	
90-12-0	1-Methylnaphthalene	12.5	2.2	ug/l	
91-57-6	2-Methylnaphthalene	12.3	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%	86%	33-141%
92-94-4	p-Terphenyl	81%	81%	31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-13D-01		
Lab Sample ID:	F11021-11	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005245.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		33-141%
92-94-4	p-Terphenyl	72%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP01		
Lab Sample ID:	F11021-10	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005244.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2 [a]	EE005263.D	4	10/04/01	MRE	10/01/01	OP3929	GEE243

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND [b]	17	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	76.3 [b]	8.6	ug/l	
90-12-0	1-Methylnaphthalene	5.1	2.2	ug/l	
91-57-6	2-Methylnaphthalene	4.6	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%	84%	33-141%
92-94-4	p-Terphenyl	43%	44%	31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-04S-02		
Lab Sample ID:	F11021-9	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005243.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	0.96	2.0	ug/l	J
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		33-141%
92-94-4	p-Terphenyl	81%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-08S-03		
Lab Sample ID:	F11021-3	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005236.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2 [a]	EE005262.D	4	10/04/01	MRE	10/01/01	OP3929	GEE243

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND [b]	17	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	80.0 [b]	8.6	ug/l	
90-12-0	1-Methylnaphthalene	5.1	2.2	ug/l	
91-57-6	2-Methylnaphthalene	4.7	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	104%	108%	33-141%
92-94-4	p-Terphenyl	69%	72%	31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-09S-01		
Lab Sample ID:	F11021-8	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005242.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	81%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-10S-01		
Lab Sample ID:	F11021-5	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005238.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		33-141%
92-94-4	p-Terphenyl	85%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-11S-01		
Lab Sample ID:	F11021-1	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005234.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	3.5	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		33-141%
92-94-4	p-Terphenyl	66%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-12S-01		
Lab Sample ID:	F11021-7	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005241.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	1.7	2.0	ug/l	J
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		33-141%
92-94-4	p-Terphenyl	74%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-13S-01		
Lab Sample ID:	F11021-2	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005235.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	70%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-14S-01		
Lab Sample ID:	F11021-6	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005239.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		33-141%
92-94-4	p-Terphenyl	66%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-15I-01		
Lab Sample ID:	F11021-4	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005237.D	1	10/03/01	MRE	10/01/01	OP3929	GEE242
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	72%		33-141%
92-94-4	p-Terphenyl	78%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-01SA-05		
Lab Sample ID:	F11021-15	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17269.D	1	10/03/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.482	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-05S-03		
Lab Sample ID:	F11021-13	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17266.D	1	10/03/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-06I-02		
Lab Sample ID:	F11021-14	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17267.D	1	10/03/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.267	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	80%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-12I-02		
Lab Sample ID:	F11021-12	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17291.D	4	10/03/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	3.28	1.1	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-13D-01		
Lab Sample ID:	F11021-11	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17264.D	1	10/02/01	ME	10/01/01	OP3930	GOP668
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	90%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP01		
Lab Sample ID:	F11021-10	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17290.D	2	10/03/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.18	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-04S-02		
Lab Sample ID:	F11021-9	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17262.D	1	10/02/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-08S-03		
Lab Sample ID:	F11021-3	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17289.D	2	10/03/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	1.29	0.50	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-09S-01		
Lab Sample ID:	F11021-8	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17261.D	1	10/02/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-10S-01		
Lab Sample ID:	F11021-5	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17257.D	1	10/02/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-11S-01		
Lab Sample ID:	F11021-1	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17253.D	4	10/02/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	2.19	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-12S-01		
Lab Sample ID:	F11021-7	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17260.D	1	10/02/01	ME	10/01/01	OP3930	GOP668
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	87%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-13S-01		
Lab Sample ID:	F11021-2	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17254.D	1	10/02/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.840	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-14S-01		
Lab Sample ID:	F11021-6	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17258.D	1	10/02/01	ME	10/01/01	OP3930	GOP668
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	93%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-15I-01		
Lab Sample ID:	F11021-4	**Date Sampled:**	09/25/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17256.D	1	10/02/01	ME	10/01/01	OP3930	GOP668
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		55-130%

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

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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**MR. M. SPERANZA**	**DATE:**	**JANUARY 29, 2002**
FROM:	**ANGELA SCHEETZ**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOA/PAH/PET**
CTO 078, NAS CECIL FIELD
SDG F11103

SAMPLES: 1/Soil

CEF-824-IDW-SBTW-01

4/Groundwater

CEF-293-GW-3-01	CEF-293-GW-5-01
CEF-824-IDW-TW-003	CEF-824A-GW-20S-01

OVERVIEW

The sample set for CTO 078, NAS Cecil Field, SDG F11103 consists of one (1) soil environmental samples and four (4) groundwater environmental samples. All samples were analyzed for volatile organic compounds, polynuclear aromatic hydrocarbons (PAHs), and total petroleum hydrocarbons (TPH). No sample duplicate pairs were included in this SDG.

The samples were collected by TetraTech NUS on October 02 and 03, 2001 and analyzed by Accutest. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. VOCs were conducted by SW 846 8260B, PAHs were conducted using SW-846 Methods 8310. TPH analyses were conducted using the Florida PRO method.

- * Data completeness
- * Holding times
- * Initial and continuing calibration
- Laboratory method and field quality control blank results
- * Detection Limits

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 Organic Compounds

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

Analyte	Maximum Concentration	Action Level
2-hexanone	8.3 µg/kg	41.5 µg/kg
4-methyl-2-pentanone	6.0 µg/kg	30.0 µg/kg

An action level of 5X the maximum concentration was used to evaluate the sample data for blank

contamination. Sample aliquot, percent solids and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. No qualifications were made on this basis.

A continuing calibration RRF value was <0.05 for acetone on 10/09/01 at 10:08 associated with the soil matrix. The nondetected result in sample CEF-824-IDW-SBTW-01 was qualified as rejected, UR.

There were initial and continuing calibration noncompliances (%RSDs, %Ds), however, these noncompliances did not warrant qualification, as only limited data review is being performed.

Polynuclear aromatic hydrocarbons

There were continuing calibration noncompliances (%Ds), however, these noncompliances did not warrant qualification, as only limited data review is being performed.

TPH

Accept data as reported.

Notes

Elevated reporting limits were reported in the VOA fraction because sample CEF-824-IDW-SBTW-01 had a dilution factor of 50X. No qualifications were made on this basis.

Elevated reporting limits were reported in the PAH fraction because sample CEF-824-IDW-TW-003 had a dilution factor of 4X for Run #3. No qualifications were made on this basis.

Elevated reporting limits were reported in the PAH fraction because sample CEF-824-IDW-SBTW-01 had a dilution factor of 4X. No qualifications were made on this basis.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Acetone was rejected due to RRF noncompliance.

Other Factors Affecting Data Quality: Some analytical fractions contain elevated reporting limits due to sample dilution.

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99), the NFESC guidelines (September, 1999), and the National Functional Guidelines for Inorganic Review (February, 1994). 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)."

Angela Scheetz
Tetra Tech NUS

Angela Scheetz
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

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
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F11103

SAMPLE NUMBER:	CEF-824-IDW-SBTW-01			
SAMPLE DATE:	10/03/01	/ /	/ /	/ /
LABORATORY ID:	F11103-5			
QC_TYPE:	NORMAL			
% SOLIDS:	83.3 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/KG			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	290	U										
1,1,2,2-TETRACHLOROETHANE	290	U										
1,1,2-TRICHLOROETHANE	290	U										
1,1-DICHLOROETHANE	290	U										
1,1-DICHLOROETHENE	290	U										
1,2-DICHLOROETHANE	290	U										
1,2-DICHLOROPROPANE	290	U										
2-BUTANONE	580	U										
2-HEXANONE	580	U										
4-METHYL-2-PENTANONE	580	U										
ACETONE	2900	UR	C									
BENZENE	290	U										
BROMODICHLOROMETHANE	290	U										
BROMOFORM	290	U										
BROMOMETHANE	290	U										
CARBON DISULFIDE	580	U										
CARBON TETRACHLORIDE	290	U										
CHLOROBENZENE	290	U										
CHLORODIBROMOMETHANE	290	U										
CHLOROETHANE	290	U										
CHLOROFORM	290	U										
CHLOROMETHANE	290	U										
CIS-1,2-DICHLOROETHENE	290	U										
CIS-1,3-DICHLOROPROPENE	290	U										
ETHYLBENZENE	3490											
METHYLENE CHLORIDE	580	U										
STYRENE	290	U										
TETRACHLOROETHENE	290	U										
TOLUENE	424											
TOTAL XYLENES	14900											
TRANS-1,2-DICHLOROETHENE	290	U										
TRANS-1,3-DICHLOROPROPENE	290	U										

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F11103

SAMPLE NUMBER:	CEF-824-IDW-SBTW-01			
SAMPLE DATE:	10/03/01	/ /	/ /	/ /
LABORATORY ID:	F11103-5			
QC_TYPE:	NORMAL			
% SOLIDS:	83.3 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/KG			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRICHLOROETHENE	290	U										
VINYL CHLORIDE	290	U										

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11103

SAMPLE NUMBER:	CEF-293-GW-3-01			CEF-293-GW-5-01			CEF-824-IDW-TW-003			CEF-824A-GW-20S-01		
SAMPLE DATE:	10/02/01			10/02/01			10/03/01			10/02/01		
LABORATORY ID:	F11103-1			F11103-2			F11103-4			F11103-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHENE	2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		4.3			1	U	
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	2	U		2	U		1.9	J	P	2	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	2	U		2	U		27.6			2	U	
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		2	U	
TOLUENE	2	U		2	U		6.6			2	U	
TOTAL XYLENES	6	U		6	U		126			6	U	
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11103

SAMPLE NUMBER:	CEF-293-GW-3-01			CEF-293-GW-5-01			CEF-824-IDW-TW-003			CEF-824A-GW-20S-01		
SAMPLE DATE:	10/02/01			10/02/01			10/03/01			10/02/01		
LABORATORY ID:	F11103-1			F11103-2			F11103-4			F11103-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRICHLOROETHENE	2	U		2	U		2	U		2	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F11103

SAMPLE NUMBER:	CEF-824-IDW-SBTW-01			
SAMPLE DATE:	10/03/01	/ /	/ /	/ /
LABORATORY ID:	F11103-5			
QC_TYPE:	NORMAL			
% SOLIDS:	83.3 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/KG			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	290	U										

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F11103

SAMPLE NUMBER:	CEF-824-IDW-SBTW-01			
SAMPLE DATE:	10/03/01	/ /	/ /	/ /
LABORATORY ID:	F11103-5			
QC_TYPE:	NORMAL			
% SOLIDS:	83.3 %	100.0 %	100.0 %	100.0 %
UNITS:	UG/KG			
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	8010											
2-METHYLNAPHTHALENE	9200											
ACENAPHTHENE	3200	U										
ACENAPHTHYLENE	3200	U										
ANTHRACENE	1600	U										
BENZO(A)ANTHRACENE	1600	U										
BENZO(A)PYRENE	320	U										
BENZO(B)FLUORANTHENE	320	U										
BENZO(G,H,I)PERYLENE	320	U										
BENZO(K)FLUORANTHENE	320	U										
CHRYSENE	1600	U										
DIBENZO(A,H)ANTHRACENE	320	U										
FLUORANTHENE	1600	U										
FLUORENE	1600	U										
INDENO(1,2,3-CD)PYRENE	320	U										
NAPHTHALENE	3310											
PHENANTHRENE	1600	U										
PYRENE	1600	U										

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11103

SAMPLE NUMBER:	CEF-293-GW-3-01			CEF-293-GW-5-01			CEF-824-IDW-TW-003			CEF-824A-GW-20S-01		
SAMPLE DATE:	10/02/01			10/02/01			10/03/01			10/02/01		
LABORATORY ID:	F11103-1			F11103-2			F11103-4			F11103-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U		2	U		68.5			2.2	U	
2-METHYLNAPHTHALENE	2.2	U		2	U		69.1			2.2	U	
ACENAPHTHENE	4.4	U		4	U		17	U		4.4	U	
ACENAPHTHYLENE	4.4	U		4	U		17	U		4.4	U	
ANTHRACENE	2.2	U		2	U		8.6	U		2.2	U	
BENZO(A)ANTHRACENE	0.22	U		0.2	U		0.86	U		0.22	U	
BENZO(A)PYRENE	0.22	U		0.2	U		0.22	U		0.22	U	
BENZO(B)FLUORANTHENE	0.22	U		0.2	U		0.22	U		0.22	U	
BENZO(G,H,I)PERYLENE	0.22	U		0.2	U		0.22	U		0.22	U	
BENZO(K)FLUORANTHENE	0.22	U		0.2	U		0.22	U		0.22	U	
CHRYSENE	2.2	U		2	U		8.6	U		2.2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U		0.2	U		0.22	U		0.22	U	
FLUORANTHENE	2.2	U		2	U		8.6	U		2.2	U	
FLUORENE	2.2	U		2	U		8.6	U		2.2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U		0.2	U		0.22	U		0.22	U	
NAPHTHALENE	2.2	U		2	U		49.4			2.2	U	
PHENANTHRENE	2.2	U		2	U		8.6	U		2.2	U	
PYRENE	2.2	U		2	U		8.6	U		2.2	U	

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F11103

SAMPLE NUMBER:	CEF-824-IDW-SBTW-01											
SAMPLE DATE:	10/03/01			/ /			/ /			/ /		
LABORATORY ID:	F11103-5											
QC_TYPE:	NORMAL											
% SOLIDS:	83.3 %			100.0 %			100.0 %			100.0 %		
UNITS:	MG/KG											
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
PETROLEUM HYDROCARBONS												
TPH (C8-C40)	2000											

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11103

SAMPLE NUMBER:	CEF-293-GW-3-01			CEF-293-GW-5-01			CEF-824-IDW-TW-003			CEF-824A-GW-20S-01		
SAMPLE DATE:	10/02/01			10/02/01			10/03/01			10/02/01		
LABORATORY ID:	F11103-1			F11103-2			F11103-4			F11103-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.28	U		0.28	U		30.6			0.28	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-3-01		
Lab Sample ID:	F11103-1	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/04/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013700.D	1	10/05/01	NAF	n/a	n/a	VH423
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-3-01		
Lab Sample ID:	F11103-1	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/04/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	104%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	113%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-5-01		
Lab Sample ID:	F11103-2	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/04/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013703.D	1	10/05/01	NAF	n/a	n/a	VH423
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-5-01		
Lab Sample ID:	F11103-2	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/04/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	112%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-20S-01		
Lab Sample ID:	F11103-3	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/04/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013704.D	1	10/05/01	NAF	n/a	n/a	VH423
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-20S-01		
Lab Sample ID:	F11103-3	Date Sampled:	10/02/01
Matrix:	AQ - Ground Water	Date Received:	10/04/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	113%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824-IDW-TW-003		
Lab Sample ID:	F11103-4	Date Sampled:	10/03/01
Matrix:	AQ - Ground Water	Date Received:	10/04/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	H013705.D	1	10/05/01	NAF	n/a	n/a	VH423
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	4.3	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	1.9	2.0	ug/l	J
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	27.6	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	6.6	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	126	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824-IDW-TW-003		
Lab Sample ID:	F11103-4	Date Sampled:	10/03/01
Matrix:	AQ - Ground Water	Date Received:	10/04/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		80-120%
17060-07-0	1,2-Dichloroethane-D4	106%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	113%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824-IDW-SBTW-01		
Lab Sample ID:	F11103-5	Date Sampled:	10/03/01
Matrix:	SO - Soil	Date Received:	10/04/01
Method:	SW846 8260B	Percent Solids:	83.3
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K006957.D	50	10/09/01	NAF	n/a	n/a	VK230
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	2900	ug/kg	
71-43-2	Benzene	ND	290	ug/kg	
75-27-4	Bromodichloromethane	ND	290	ug/kg	
75-25-2	Bromoform	ND	290	ug/kg	
108-90-7	Chlorobenzene	ND	290	ug/kg	
75-00-3	Chloroethane	ND	290	ug/kg	
67-66-3	Chloroform	ND	290	ug/kg	
75-15-0	Carbon disulfide	ND	580	ug/kg	
56-23-5	Carbon tetrachloride	ND	290	ug/kg	
75-34-3	1,1-Dichloroethane	ND	290	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	290	ug/kg	
107-06-2	1,2-Dichloroethane	ND	290	ug/kg	
78-87-5	1,2-Dichloropropane	ND	290	ug/kg	
124-48-1	Dibromochloromethane	ND	290	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	290	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	290	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	290	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	290	ug/kg	
100-41-4	Ethylbenzene	3490	290	ug/kg	
591-78-6	2-Hexanone	ND	580	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	580	ug/kg	
74-83-9	Methyl bromide	ND	290	ug/kg	
74-87-3	Methyl chloride	ND	290	ug/kg	
75-09-2	Methylene chloride	ND	580	ug/kg	
78-93-3	Methyl ethyl ketone	ND	580	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	290	ug/kg	
100-42-5	Styrene	ND	290	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	290	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	290	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	290	ug/kg	
127-18-4	Tetrachloroethylene	ND	290	ug/kg	
108-88-3	Toluene	424	290	ug/kg	
79-01-6	Trichloroethylene	ND	290	ug/kg	
75-01-4	Vinyl chloride	ND	290	ug/kg	
1330-20-7	Xylene (total)	14900	860	ug/kg	

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824-IDW-SBTW-01		
Lab Sample ID:	F11103-5	Date Sampled:	10/03/01
Matrix:	SO - Soil	Date Received:	10/04/01
Method:	SW846 8260B	Percent Solids:	83.3
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		75-125%
2037-26-5	Toluene-D8	110%		75-125%
460-00-4	4-Bromofluorobenzene	114%		72-137%
17060-07-0	1,2-Dichloroethane-D4	96%		68-125%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-3-01		
Lab Sample ID:	F11103-1	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/04/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005402.D	1	10/10/01	MRE	10/08/01	OP3970	GEE248
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		33-141%
92-94-4	p-Terphenyl	65%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-5-01		
Lab Sample ID:	F11103-2	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/04/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005403.D	1	10/10/01	MRE	10/08/01	OP3970	GEE248
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		33-141%
92-94-4	p-Terphenyl	77%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824-IDW-TW-003		
Lab Sample ID:	F11103-4	**Date Sampled:**	10/03/01
Matrix:	AQ - Ground Water	**Date Received:**	10/04/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE005384.D	1	10/10/01	MRE	10/08/01	OP3970	GEE248
Run #2	EE005509.D	1	10/17/01	MRE	10/16/01	OP4002	GEE253
Run #3	EE005407.D	4	10/11/01	MRE	10/08/01	OP3970	GEE248

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND [b]	17	ug/l	
208-96-8	Acenaphthylene	ND [b]	17	ug/l	
120-12-7	Anthracene	ND [b]	8.6	ug/l	
56-55-3	Benzo(a)anthracene	ND [b]	0.86	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND [b]	8.6	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND [b]	8.6	ug/l	
86-73-7	Fluorene	ND [b]	8.6	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	49.4 [b]	8.6	ug/l	
90-12-0	1-Methylnaphthalene	68.5 [b]	8.6	ug/l	
91-57-6	2-Methylnaphthalene	69.1 [b]	8.6	ug/l	
85-01-8	Phenanthrene	ND [b]	8.6	ug/l	
129-00-0	Pyrene	ND [b]	8.6	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
84-15-1	o-Terphenyl	119%	37%	134%	33-141%
92-94-4	p-Terphenyl	11%	11%	12%	31-122%

(a) Surrogates outside of control limits, all values should be considered estimated. Confirmed by re-extraction and reanalysis.
(b) Result is from Run# 3

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-20S-01		
Lab Sample ID:	F11103-3	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/04/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005404.D	1	10/10/01	MRE	10/08/01	OP3970	GEE248
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	74%		33-141%
92-94-4	p-Terphenyl	65%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824-IDW-SBTW-01		
Lab Sample ID:	F11103-5	**Date Sampled:**	10/03/01
Matrix:	SO - Soil	**Date Received:**	10/04/01
Method:	EPA 8310 SW846 3550B	**Percent Solids:**	83.3
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009141.D	4	10/15/01	MRE	10/11/01	OP3982	GAA398
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	3200	ug/kg	
208-96-8	Acenaphthylene	ND	3200	ug/kg	
120-12-7	Anthracene	ND	1600	ug/kg	
56-55-3	Benzo(a)anthracene	ND	1600	ug/kg	
50-32-8	Benzo(a)pyrene	ND	320	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	320	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	320	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	320	ug/kg	
218-01-9	Chrysene	ND	1600	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	320	ug/kg	
206-44-0	Fluoranthene	ND	1600	ug/kg	
86-73-7	Fluorene	ND	1600	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	320	ug/kg	
91-20-3	Naphthalene	3310	1600	ug/kg	
90-12-0	1-Methylnaphthalene	8010	1600	ug/kg	
91-57-6	2-Methylnaphthalene	9200	1600	ug/kg	
85-01-8	Phenanthrene	ND	1600	ug/kg	
129-00-0	Pyrene	ND	1600	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	119%		37-158%
92-94-4	p-Terphenyl	95%		59-149%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-3-01		
Lab Sample ID:	F11103-1	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/04/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17456.D	1	10/10/01	ME	10/08/01	OP3973	GOP671
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-5-01		
Lab Sample ID:	F11103-2	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/04/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17457.D	1	10/10/01	ME	10/08/01	OP3973	GOP671
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824-IDW-TW-003		
Lab Sample ID:	F11103-4	**Date Sampled:**	10/03/01
Matrix:	AQ - Ground Water	**Date Received:**	10/04/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17470.D	40	10/11/01	ME	10/08/01	OP3973	GOP672
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	30.6	11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		55-130%

(a) Outside control limits due to dilution.

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-20S-01		
Lab Sample ID:	F11103-3	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/04/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17458.D	1	10/11/01	ME	10/08/01	OP3973	GOP671
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824-IDW-SBTW-01		
Lab Sample ID:	F11103-5	**Date Sampled:**	10/03/01
Matrix:	SO - Soil	**Date Received:**	10/04/01
Method:	FLORIDA-PRO SW846 3550B	**Percent Solids:**	83.3
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17543.D	40	10/15/01	ME	10/11/01	OP3981	GOP674
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	2000	400	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		66-130%

(a) Outside control limits due to dilution.

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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**MR. M. SPERANZA**	**DATE:**	**DECEMBER 5, 2001**
FROM:	**ANGELA SCHEETZ**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOA/PAH/PET**
CTO 078, NAS CECIL FIELD
SDG F11065

SAMPLES: 12/Aqueous

CEF-16-GW-38S-A1	CEF-16-GW-39I-A1
CEF-16-GW-40D-A1	CEF-293-GW-10-A3
CEF-293-GW-21-A3	CEF-824A-DUP1
CEF-824A-DUP2	CEF-824A-GW-02S-03
CEF-824A-GW-03S-03	CEF-824A-GW-10S-02
CEF-824A-GW-11S-02	CEF-825LS-01S-04

OVERVIEW

The sample set for CTO 078, NAS Cecil Field, SDG F11065 consists of twelve (12) aqueous environmental samples. All samples were analyzed for volatile organic compounds, polynuclear aromatic hydrocarbons (PAHs), and total petroleum hydrocarbons (TPH). Two sample duplicate pairs were included in this SDG, CEF-824A-DUP1 / CEF-293-GW-21-A3 and CEF-824A-DUP2 / CEF-16-GW-38S-A3 .

The samples were collected by TetraTech NUS on September 27 and 28, 2001 and analyzed by Accutest. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria. VOCs were conducted by SW 846 8260B, PAHs were conducted using SW-846 Methods 8310. TPH analyses were conducted using the Florida PRO method.

- * Data completeness
- * Holding times
- Initial and continuing calibration
- * Laboratory method and field quality control blank results
- * Detection Limits
- * Field Duplicate Results

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 Organic Compounds

Continuing calibration RRF values were <0.05 for bromomethane and chloroethane on 10/04/01 at 10:12 associated with sample CEF-824A-GW-10S-02 and CEF-824A-GW-11S-02. The nondetected results in the samples were qualified as rejected, UR.

There were other initial and continuing calibration noncompliances (%RSDs, %Ds), however, these noncompliances did not warrant qualification, as only limited data review is being performed.

Polynuclear aromatic hydrocarbons

Accept data as reported.

TPH

Accept data as reported.

Notes

Elevated reporting limits were reported in Run #2 of the VOA fraction because sample CEF-824A-GW-11S-02 had a dilution factor of 2X. No qualifications were made on this basis.

Elevated reporting limits were reported in the PAH fraction because sample CEF-824A-GW-10S-02 had a dilution factor of 5X for Run #2. No qualifications were made on this basis.

Elevated reporting limits were reported in the PAH fraction because sample CEF-824A-GW-11S-02 had a dilution factor of 20X for Run #2. No qualifications were made on this basis.

Elevated reporting limits were reported in the TPH fraction because samples CEF-824A-GW-10S-02 and CEF-824A-GW-11S-02 had dilution factors of 4X and 10X, respectively. No qualifications were made on this basis.

EXECUTIVE SUMMARY

Laboratory Performance Issues: Bromomethane and chloroethane were rejected due to RRF noncompliance.

Other Factors Affecting Data Quality: Dilution factors were used in all fractions.

TO: M. SPERANZA – PAGE 3
DATE: DECEMBER 5, 2001

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99), the NFESC guidelines (September, 1999), and the National Functional Guidelines for Inorganic Review (February, 1994). 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)."

Angela Scheetz
Tetra Tech NUS

Angela Scheetz
Chemist/Data Validator

Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

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
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11065

SAMPLE NUMBER:	CEF-16-GW-38S-A1			CEF-16-GW-39I-A1			CEF-16-GW-40D-A1			CEF-293-GW-10-A3		
SAMPLE DATE:	09/28/01			09/28/01			09/28/01			09/28/01		
LABORATORY ID:	F11065-6			F11065-8			F11065-7			F11065-10		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHENE	2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		1	U		1	U	
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	2	U		2	U		2	U		2	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	2	U		2	U		2	U		2	U	
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		2	U	
TOLUENE	2	U		2	U		2	U		2	U	
TOTAL XYLENES	6	U		6	U		6	U		6	U	
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	

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SAMPLE NUMBER:	CEF-16-GW-38S-A1			CEF-16-GW-39I-A1			CEF-16-GW-40D-A1			CEF-293-GW-10-A3		
SAMPLE DATE:	09/28/01			09/28/01			09/28/01			09/28/01		
LABORATORY ID:	F11065-6			F11065-8			F11065-7			F11065-10		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
TRICHLOROETHENE	2	U		2	U		2	U		2	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

CTO078-NAS CECIL FIELD
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SAMPLE NUMBER:	CEF-293-GW-21-A3			CEF-824A-DUP1			CEF-824A-DUP2			CEF-824A-GW-02S-03		
SAMPLE DATE:	09/28/01			09/28/01			09/28/01			09/28/01		
LABORATORY ID:	F11065-4			F11065-11			F11065-12			F11065-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:				CEF-293-GW-21-A3			CEF-16-GW-38S-A3					
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHENE	2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	50	U		50	U		50	U		50	U	
BENZENE	30.8			28.9			1	U		1	U	
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	2	U		2	U		2	U		2	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	2.7			2.8			2	U		2	U	
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		2	U	
TOLUENE	2	U		2	U		2	U		2	U	
TOTAL XYLENES	4.1	J	P	4.9	J	P	6	U		6	U	
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	

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Accutest, NJ
SDG: F11065

SAMPLE NUMBER:	CEF-293-GW-21-A3			CEF-824A-DUP1			CEF-824A-DUP2			CEF-824A-GW-02S-03		
SAMPLE DATE:	09/28/01			09/28/01			09/28/01			09/28/01		
LABORATORY ID:	F11065-4			F11065-11			F11065-12			F11065-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:				CEF-293-GW-21-A3			CEF-16-GW-38S-A3					
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
TRICHLOROETHENE	2	U		2	U		2	U		2	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

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SAMPLE NUMBER:	CEF-824A-GW-03S-03			CEF-824A-GW-10S-02			CEF-824A-GW-11S-02			CEF-825LS-01S-04		
SAMPLE DATE:	09/28/01			09/27/01			09/27/01			09/28/01		
LABORATORY ID:	F11065-5			F11065-1			F11065-2			F11065-9		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	2	U		1.1	J	P	2	U		2	U	
1,1-DICHLOROETHENE	2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		8.7			1	U	
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	U		5	UR	C	5	UR	C	5	U	
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	UR	C	5	UR	C	5	U	
CHLOROFORM	2	U		2	U		2	U		2	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		3.7			2	U		2	U	
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	2	U		8.6			84.9			2	U	
METHYLENE CHLORIDE	5	U		3	J	P	5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		2	U	
TOLUENE	2	U		1	J	P	56.6			2	U	
TOTAL XYLENES	6	U		4	J	P	334			6	U	
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	

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SAMPLE NUMBER:	CEF-824A-GW-03S-03			CEF-824A-GW-10S-02			CEF-824A-GW-11S-02			CEF-825LS-01S-04		
SAMPLE DATE:	09/28/01			09/27/01			09/27/01			09/28/01		
LABORATORY ID:	F11065-5			F11065-1			F11065-2			F11065-9		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
TRICHLOROETHENE	2	U		2	U		2	U		2	U	
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

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Accutest, NJ
SDG: F11065

SAMPLE NUMBER:	CEF-16-GW-38S-A1	CEF-16-GW-39I-A1	CEF-16-GW-40D-A1	CEF-293-GW-10-A3
SAMPLE DATE:	09/28/01	09/28/01	09/28/01	09/28/01
LABORATORY ID:	F11065-6	F11065-8	F11065-7	F11065-10
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		2.0	U		2.0	U		2.0	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11065

SAMPLE NUMBER:	CEF-293-GW-21-A3			CEF-824A-DUP1			CEF-824A-DUP2			CEF-824A-GW-02S-03		
SAMPLE DATE:	09/28/01			09/28/01			09/28/01			09/28/01		
LABORATORY ID:	F11065-4			F11065-11			F11065-12			F11065-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:				CEF-293-GW-21-A3			CEF-16-GW-38S-A3					
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		2.0	U		2.0	U		2.0	U	

CTO078-NAS CECIL FIELD
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Accutest, NJ
SDG: F11065

SAMPLE NUMBER:	CEF-824A-GW-03S-03			CEF-824A-GW-10S-02			CEF-824A-GW-11S-02			CEF-825LS-01S-04		
SAMPLE DATE:	09/28/01			09/27/01			09/27/01			09/28/01		
LABORATORY ID:	F11065-5			F11065-1			F11065-2			F11065-9		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		2.0	U		2.0	U		2.0	U	

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Accutest, NJ
SDG: F11065

SAMPLE NUMBER:	CEF-16-GW-38S-A1			CEF-16-GW-39I-A1			CEF-16-GW-40D-A1			CEF-293-GW-10-A3		
SAMPLE DATE:	09/28/01			09/28/01			09/28/01			09/28/01		
LABORATORY ID:	F11065-6			F11065-8			F11065-7			F11065-10		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2	U		2.2	U		2.2	U		2.2	U	
2-METHYLNAPHTHALENE	2.2	U		2.2	U		2.2	U		2.2	U	
ACENAPHTHENE	4.4	U		4.4	U		4.4	U		4.4	U	
ACENAPHTHYLENE	4.4	U		4.4	U		4.4	U		4.4	U	
ANTHRACENE	2.2	U		2.2	U		2.2	U		2.2	U	
BENZO(A)ANTHRACENE	0.22	U		0.22	U		0.22	U		0.22	U	
BENZO(A)PYRENE	0.22	U		0.22	U		0.22	U		0.22	U	
BENZO(B)FLUORANTHENE	0.22	U		0.22	U		0.22	U		0.22	U	
BENZO(G,H,I)PERYLENE	0.22	U		0.22	U		0.22	U		0.22	U	
BENZO(K)FLUORANTHENE	0.22	U		0.22	U		0.22	U		0.22	U	
CHRYSENE	2.2	U		2.2	U		2.2	U		2.2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U		0.22	U		0.22	U		0.22	U	
FLUORANTHENE	2.2	U		2.2	U		2.2	U		2.2	U	
FLUORENE	2.2	U		2.2	U		2.2	U		2.2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U		0.22	U		0.22	U		0.22	U	
NAPHTHALENE	2.2	U		2.2	U		2.2	U		5.6		
PHENANTHRENE	2.2	U		2.2	U		2.2	U		2.2	U	
PYRENE	2.2	U		2.2	U		2.2	U		2.2	U	

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SAMPLE NUMBER:	CEF-293-GW-21-A3			CEF-824A-DUP1			CEF-824A-DUP2			CEF-824A-GW-02S-03		
SAMPLE DATE:	09/28/01			09/28/01			09/28/01			09/28/01		
LABORATORY ID:	F11065-4			F11065-11			F11065-12			F11065-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:				CEF-293-GW-21-A3			CEF-16-GW-38S-A3					
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.2			2.5			2.2	U		0.93	J	P
2-METHYLNAPHTHALENE	2.2			2.6			2.2	U		1.6	J	P
ACENAPHTHENE	4.4	U		4.4	U		4.4	U		4.4	U	
ACENAPHTHYLENE	4.4	U		4.4	U		4.4	U		4.4	U	
ANTHRACENE	2.2	U		2.2	U		2.2	U		2.2	U	
BENZO(A)ANTHRACENE	0.22	U		0.22	U		0.22	U		0.22	U	
BENZO(A)PYRENE	0.22	U		0.22	U		0.22	U		0.22	U	
BENZO(B)FLUORANTHENE	0.22	U		0.22	U		0.22	U		0.22	U	
BENZO(G,H,I)PERYLENE	0.22	U		0.22	U		0.22	U		0.22	U	
BENZO(K)FLUORANTHENE	0.22	U		0.22	U		0.22	U		0.22	U	
CHRYSENE	2.2	U		2.2	U		2.2	U		2.2	U	
DIBENZO(A,H)ANTHRACENE	0.22	U		0.22	U		0.22	U		0.22	U	
FLUORANTHENE	2.2	U		2.2	U		2.2	U		2.2	U	
FLUORENE	2.2	U		2.2	U		2.2	U		2.2	U	
INDENO(1,2,3-CD)PYRENE	0.22	U		0.22	U		0.22	U		0.22	U	
NAPHTHALENE	2.5			3			2.2	U		2.2	U	
PHENANTHRENE	2.2	U		2.2	U		2.2	U		2.2	U	
PYRENE	2.2	U		2.2	U		2.2	U		2.2	U	

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SAMPLE NUMBER:	CEF-824A-GW-03S-03			CEF-824A-GW-10S-02			CEF-824A-GW-11S-02			CEF-825LS-01S-04		
SAMPLE DATE:	09/28/01			09/27/01			09/27/01			09/28/01		
LABORATORY ID:	F11065-5			F11065-1			F11065-2			F11065-9		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2	U		15.7			175			2	U	
2-METHYLNAPHTHALENE	2	U		16.8			196			2	U	
ACENAPHTHENE	4	U		20	U		80	U		4	U	
ACENAPHTHYLENE	4	U		20	U		80	U		4	U	
ANTHRACENE	2	U		2	U		2	U		2	U	
BENZO(A)ANTHRACENE	0.2	U		0.2	U		0.2	U		0.2	U	
BENZO(A)PYRENE	0.2	U		0.2	U		0.2	U		0.2	U	
BENZO(B)FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.2	U	
BENZO(G,H,I)PERYLENE	0.2	U		0.2	U		0.2	U		0.2	U	
BENZO(K)FLUORANTHENE	0.2	U		0.2	U		0.2	U		0.2	U	
CHRYSENE	2	U		2	U		2	U		2	U	
DIBENZO(A,H)ANTHRACENE	0.2	U		0.2	U		0.2	U		0.2	U	
FLUORANTHENE	2	U		2	U		2	U		2	U	
FLUORENE	2	U		10	U		40	U		2	U	
INDENO(1,2,3-CD)PYRENE	0.2	U		0.2	U		0.2	U		0.2	U	
NAPHTHALENE	2	U		128			438			2	U	
PHENANTHRENE	2	U		2	U		40	U		2	U	
PYRENE	2	U		2	U		2	U		2	U	

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Accutest, NJ
SDG: F11065

SAMPLE NUMBER:	CEF-16-GW-38S-A1			CEF-16-GW-39I-A1			CEF-16-GW-40D-A1			CEF-293-GW-10-A3		
SAMPLE DATE:	09/28/01			09/28/01			09/28/01			09/28/01		
LABORATORY ID:	F11065-6			F11065-8			F11065-7			F11065-10		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.28	U		0.25	U		0.25	U		0.335		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11065

SAMPLE NUMBER:	CEF-293-GW-21-A3			CEF-824A-DUP1			CEF-824A-DUP2			CEF-824A-GW-02S-03		
SAMPLE DATE:	09/28/01			09/28/01			09/28/01			09/28/01		
LABORATORY ID:	F11065-4			F11065-11			F11065-12			F11065-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:				CEF-293-GW-21-A3			CEF-16-GW-38S-A3					
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.269			0.242	J	P	0.25	U		0.28	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11065

SAMPLE NUMBER:	CEF-824A-GW-03S-03			CEF-824A-GW-10S-02			CEF-824A-GW-11S-02			CEF-825LS-01S-04		
SAMPLE DATE:	09/28/01			09/27/01			09/27/01			09/28/01		
LABORATORY ID:	F11065-5			F11065-1			F11065-2			F11065-9		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	MG/L			MG/L			MG/L			MG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.25	U		4.83			13.6			0.203	J	P

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-38S-A1		
Lab Sample ID:	F11065-6	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0006094.D	1	10/05/01	JG	n/a	n/a	VC292
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-38S-A1		
Lab Sample ID:	F11065-6	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	102%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	108%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP2		
Lab Sample ID:	F11065-12	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006402.D	1	10/04/01	JG	n/a	n/a	VB274
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP2		
Lab Sample ID:	F11065-12	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	97%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-39I-A1		
Lab Sample ID:	F11065-8	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006398.D	1	10/04/01	JG	n/a	n/a	VB274
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-39I-A1		
Lab Sample ID:	F11065-8	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	95%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-40D-A1		
Lab Sample ID:	F11065-7	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006397.D	1	10/04/01	JG	n/a	n/a	VB274
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-40D-A1		
Lab Sample ID:	F11065-7	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	96%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-10-A3		
Lab Sample ID:	F11065-10	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006400.D	1	10/04/01	JG	n/a	n/a	VB274
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-10-A3		
Lab Sample ID:	F11065-10	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	95%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-21-A3		
Lab Sample ID:	F11065-4	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0006092.D	1	10/05/01	JG	n/a	n/a	VC292
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	30.8	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	2.7	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	4.1	6.0	ug/l	J

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-21-A3		
Lab Sample ID:	F11065-4	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	103%		80-120%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	106%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP1		
Lab Sample ID:	F11065-11	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006401.D	1	10/04/01	JG	n/a	n/a	VB274
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	28.9	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	2.8	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	4.9	6.0	ug/l	J

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP1		
Lab Sample ID:	F11065-11	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	97%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-02S-03		
Lab Sample ID:	F11065-3	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0006091.D	1	10/05/01	JG	n/a	n/a	VC292
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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

Report of Analysis

Client Sample ID:	CEF-824A-GW-02S-03		
Lab Sample ID:	F11065-3	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	101%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	109%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-03S-03		
Lab Sample ID:	F11065-5	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0006093.D	1	10/05/01	JG	n/a	n/a	VC292
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-03S-03		
Lab Sample ID:	F11065-5	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	100%		80-120%
2037-26-5	Toluene-D8	99%		80-120%
460-00-4	4-Bromofluorobenzene	107%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-10S-02		
Lab Sample ID:	F11065-1	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015461.D	1	10/04/01	KW	n/a	n/a	VG469
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	1.1	2.0	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	3.7	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	8.6	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride [a]	3.0	5.0	ug/l	J
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	1.0	2.0	ug/l	J
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	4.0	6.0	ug/l	J

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-10S-02		
Lab Sample ID:	F11065-1	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	108%		80-120%
2037-26-5	Toluene-D8	100%		80-120%
460-00-4	4-Bromofluorobenzene	102%		80-120%

(a) Suspected laboratory contaminant.

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-11S-02		
Lab Sample ID:	F11065-2	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G0015462.D	1	10/04/01	KW	n/a	n/a	VG469
Run #2	G0015475.D	2	10/05/01	KW	n/a	n/a	VG470

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	8.7	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	84.9	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	56.6	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	334 [a]	12	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-11S-02		
Lab Sample ID:	F11065-2	Date Sampled:	09/27/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%	102%	80-120%
17060-07-0	1,2-Dichloroethane-D4	101%	110%	80-120%
2037-26-5	Toluene-D8	103%	99%	80-120%
460-00-4	4-Bromofluorobenzene	98%	102%	80-120%

(a) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-825LS-01S-04		
Lab Sample ID:	F11065-9	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0006399.D	1	10/04/01	JG	n/a	n/a	VB274
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-825LS-01S-04		
Lab Sample ID:	F11065-9	Date Sampled:	09/28/01
Matrix:	AQ - Ground Water	Date Received:	09/29/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	99%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	93%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-38S-A1		
Lab Sample ID:	F11065-6	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009042.D	1	10/08/01	MRE	10/04/01	OP3951	GAA393
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		33-141%
92-94-4	p-Terphenyl	69%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-39I-A1		
Lab Sample ID:	F11065-8	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009044.D	1	10/08/01	MRE	10/04/01	OP3951	GAA393
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		33-141%
92-94-4	p-Terphenyl	64%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-40D-A1		
Lab Sample ID:	F11065-7	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009043.D	1	10/08/01	MRE	10/04/01	OP3951	GAA393
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		33-141%
92-94-4	p-Terphenyl	65%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-10-A3		
Lab Sample ID:	F11065-10	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009046.D	1	10/08/01	MRE	10/04/01	OP3951	GAA393
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	5.6	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		33-141%
92-94-4	p-Terphenyl	81%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-21-A3		
Lab Sample ID:	F11065-4	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009039.D	1	10/08/01	MRE	10/04/01	OP3951	GAA393
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	2.5	2.2	ug/l	
90-12-0	1-Methylnaphthalene	2.2	2.2	ug/l	
91-57-6	2-Methylnaphthalene	2.2	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	75%		33-141%
92-94-4	p-Terphenyl	78%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP1		
Lab Sample ID:	F11065-11	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009047.D	1	10/08/01	MRE	10/04/01	OP3951	GAA393
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	3.0	2.2	ug/l	
90-12-0	1-Methylnaphthalene	2.5	2.2	ug/l	
91-57-6	2-Methylnaphthalene	2.6	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		33-141%
92-94-4	p-Terphenyl	83%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP2		
Lab Sample ID:	F11065-12	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009048.D	1	10/08/01	MRE	10/04/01	OP3951	GAA393
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.2	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.2	ug/l	
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		33-141%
92-94-4	p-Terphenyl	64%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-02S-03		
Lab Sample ID:	F11065-3	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009038.D	1	10/08/01	MRE	10/04/01	OP3951	GAA393
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.4	ug/l	
208-96-8	Acenaphthylene	ND	4.4	ug/l	
120-12-7	Anthracene	ND	2.2	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.22	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.22	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.22	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.22	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.22	ug/l	
218-01-9	Chrysene	ND	2.2	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.22	ug/l	
206-44-0	Fluoranthene	ND	2.2	ug/l	
86-73-7	Fluorene	ND	2.2	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.22	ug/l	
91-20-3	Naphthalene	ND	2.2	ug/l	
90-12-0	1-Methylnaphthalene	0.93	2.2	ug/l	J
91-57-6	2-Methylnaphthalene	1.6	2.2	ug/l	J
85-01-8	Phenanthrene	ND	2.2	ug/l	
129-00-0	Pyrene	ND	2.2	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		33-141%
92-94-4	p-Terphenyl	79%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-03S-03		
Lab Sample ID:	F11065-5	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009041.D	1	10/08/01	MRE	10/04/01	OP3951	GAA393
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	65%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-10S-02		
Lab Sample ID:	F11065-1	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005336.D	1	10/08/01	MRE	10/03/01	OP3945	GEE246
Run #2 [a]	EE005369.D	5	10/09/01	MRE	10/03/01	OP3945	GEE247

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND [b]	20	ug/l	
208-96-8	Acenaphthylene	ND [b]	20	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND [b]	10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	128 [b]	10	ug/l	
90-12-0	1-Methylnaphthalene	15.7 [b]	10	ug/l	
91-57-6	2-Methylnaphthalene	16.8 [b]	10	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%	73%	33-141%
92-94-4	p-Terphenyl	45%	46%	31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-11S-02		
Lab Sample ID:	F11065-2	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE005337.D	1	10/08/01	MRE	10/03/01	OP3945	GEE246
Run #2 [a]	EE005370.D	20	10/09/01	MRE	10/03/01	OP3945	GEE247

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND [b]	80	ug/l	
208-96-8	Acenaphthylene	ND [b]	80	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND [b]	40	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	438 [b]	40	ug/l	
90-12-0	1-Methylnaphthalene	175 [b]	40	ug/l	
91-57-6	2-Methylnaphthalene	196 [b]	40	ug/l	
85-01-8	Phenanthrene	ND [b]	40	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	123%	125%	33-141%
92-94-4	p-Terphenyl	88%	89%	31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-825LS-01S-04		
Lab Sample ID:	F11065-9	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009045.D	1	10/08/01	MRE	10/04/01	OP3951	GAA393
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		33-141%
92-94-4	p-Terphenyl	62%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-38S-A1		
Lab Sample ID:	F11065-6	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17318.D	1	10/05/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-39I-A1		
Lab Sample ID:	F11065-8	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17320.D	1	10/05/01	ME	10/02/01	OP3935	GOP669
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	79%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-16-GW-40D-A1		
Lab Sample ID:	F11065-7	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17319.D	1	10/05/01	ME	10/02/01	OP3935	GOP669
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	85%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-10-A3		
Lab Sample ID:	F11065-10	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17322.D	1	10/05/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.335	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-21-A3		
Lab Sample ID:	F11065-4	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17315.D	1	10/04/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.269	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP1		
Lab Sample ID:	F11065-11	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17323.D	1	10/05/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.242	0.25	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	86%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP2		
Lab Sample ID:	F11065-12	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17324.D	1	10/05/01	ME	10/02/01	OP3935	GOP669
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	76%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-02S-03		
Lab Sample ID:	F11065-3	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17314.D	1	10/04/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-03S-03		
Lab Sample ID:	F11065-5	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17316.D	1	10/04/01	ME	10/02/01	OP3935	GOP669
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	84%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-10S-02		
Lab Sample ID:	F11065-1	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17312.D	4	10/04/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	4.83	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-11S-02		
Lab Sample ID:	F11065-2	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17334.D	10	10/05/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	13.6	2.8	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-825LS-01S-04		
Lab Sample ID:	F11065-9	**Date Sampled:**	09/28/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP17321.D	1	10/05/01	ME	10/02/01	OP3935	GOP669
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.203	0.25	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		55-130%

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

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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **SPERANZA, M.** **DATE:** **January 29, 2002**

FROM: **CATHERINE NORONHA** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – TAL METALS AND MISCELLANEOUS**
CTO-078 NAS CECIL FIELD
SAMPLE DELIVERY GROUP (SDG) – F11028

SAMPLES: 5Aqueous/

CEF-B312-DUP2
CEF-B312-GW-03S-02
CEF-B312-GW-01SA-03
CEF-B312-GW-01S-03
CEF-B312-GW-05S-02

Overview

The sample set for CTO 078, NAS CECIL FIELD, SDG F11028, consists of five (5) aqueous environmental samples. One field duplicates pair CEF-B312-DUP2/ CEF-B312-GW-05S-02 were included in the SDG.

All samples were analyzed for: target analyte list (TAL) metals, alkalinity, sulfates, sulfides, chlorides, nitrates, nitrites, orthophosphate, and Total Organic Carbon (TOC). These samples were collected by TetraTech NUS on September 26, 2001 and analyzed by ACCUTEST LABORATORY under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria.

Metal samples were analyzed using CLP methodology. Alkalinity was analyzed using method 310.1. Chloride, Nitrate, Nitrite, and sulfate were analyzed by ion chromatography using EPA method 300. Orthophosphate was analysed using EPA method 365. Sulfite was analyzed by Titrimetric-Iodine SW 846 using method 9030. TOC was analyzed using method 415.1/9060.

These data were evaluated based on the following parameters:

* • Data Completeness
• Holding Times
* • Calibration Recoveries
• Laboratory Blank Analyses
* • Field Duplicate Results
* • 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:

Analyte	Maximum Concentration	Action Level
Iron	38.7 µg/L	193.5 µg/L

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluation for blank contamination.

The holding time for Orthophosphate was exceeded by 4 days. Nondetected results were rejected, UR.

Executive Summary

Laboratory Performance: Holding time for orthophosphate was exceeded resulting in rejected data. Several analytes were present in the laboratory method/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 IRCDQM" (September 1999).

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)."

Tetra Tech NUS
Catherine Noronha
Environmental Scientist

TetraTech 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

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-DUP2	CEF-B312-GW-01S-03	CEF-B312-GW-03S-02	CEF-B312-GW-05S-02
SAMPLE DATE:	09/26/01	09/26/01	09/26/01	09/26/01
LABORATORY ID:	F11028-5A	F11028-2A	F11028-4A	F11028-1A
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:	CEF-B312-GW-05S-02			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
IRON	5460			418			5400			5560		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-GW-01S-03			CEF-B312-GW-01SA-03			CEF-B312-GW-03S-02			CEF-B312-GW-05S-02		
SAMPLE DATE:	09/26/01			09/26/01			09/26/01			09/26/01		
LABORATORY ID:	F11028-2A			F11028-3			F11028-4			F11028-1		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
MISCELLANEOUS PARAMETERS												
ALKALINITY(MG/L)	60.1						104			5	U	
CHLORIDE(MG/L)	20	U					20	U		20	U	
NITRATE AS NITROGEN(MG/L)	0.1	U					0.1	U		0.1	U	
NITRITE AS NITROGEN(MG/L)	0.1	U					0.1	U		0.1	U	
ORTHOPHOSPHATE(MG/L)	0.1	UR	H				0.1	UR	H	0.1	UR	H
SULFATE(MG/L)	24.3						20	U		20	U	
SULFIDE(MG/L)	2	U					2	U		2	U	
TOTAL ORGANIC CARBON(MG/L)	112			25.6			90			19		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11028

SAMPLE NUMBER:	CEF-B312-DUP2	/ /	/ /	/ /
SAMPLE DATE:	09/26/01			
LABORATORY ID:	F11028-5			
QC_TYPE:	NORMAL			
% SOLIDS:	0.0 %	100.0 %	100.0 %	100.0 %
FIELD DUPLICATE OF:	CEF-B312-GW-05S-02			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
MISCELLANEOUS PARAMETERS												
ALKALINITY(MG/L)	5	U										
CHLORIDE(MG/L)	20	U										
NITRATE AS NITROGEN(MG/L)	0.1	U										
NITRITE AS NITROGEN(MG/L)	0.1	U										
ORTHOPHOSPHATE(MG/L)	0.1	UR	H									
SULFATE(MG/L)	20	U										
SULFIDE(MG/L)	2	U										
TOTAL ORGANIC CARBON(MG/L)	22.6											

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-05S-02		
Lab Sample ID:	F11028-1A	**Date Sampled:**	09/26/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Iron	5560	300	9.0	ug/l	1	09/28/01	09/28/01	DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01S-03		
Lab Sample ID:	F11028-2A	**Date Sampled:**	09/26/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Iron	418	300	9.0	ug/l	1	09/28/01	09/28/01	DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-03S-02		
Lab Sample ID:	F11028-4A	**Date Sampled:**	09/26/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Iron	5400	300	9.0	ug/l	1	09/28/01	09/28/01	DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP2		
Lab Sample ID:	F11028-5A	**Date Sampled:**	09/26/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Iron	5460	300	9.0	ug/l	1	09/28/01	09/28/01	DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-05S-02		
Lab Sample ID:	F11028-1	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	<5.0	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/02/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Total Organic Carbon	19.0	5.0	mg/l	5	09/28/01	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01S-03		
Lab Sample ID:	F11028-2	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	60.1	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/02/01	AL	EPA 365.2
Sulfate	24.3	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Total Organic Carbon	112	10	mg/l	10	09/28/01	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-03S-02		
Lab Sample ID:	F11028-4	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	104	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/02/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Total Organic Carbon	90.0	10	mg/l	10	09/28/01	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP2		
Lab Sample ID:	F11028-5	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	<5.0	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/02/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Total Organic Carbon	22.6	2.0	mg/l	2	09/28/01	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-05S-02		
Lab Sample ID:	F11028-1A	**Date Sampled:**	09/26/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01S-03		
Lab Sample ID:	F11028-2A	**Date Sampled:**	09/26/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-03S-02		
Lab Sample ID:	F11028-4A	**Date Sampled:**	09/26/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP2		
Lab Sample ID:	F11028-5A	**Date Sampled:**	09/26/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-05S-02		
Lab Sample ID:	F11028-1	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/28/01
		Percent Solids:	n/a
Project:	TETRPAPT: NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	19.0	5.0	mg/l	5	09/28/01 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01S-03		
Lab Sample ID:	F11028-2	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/28/01
		Percent Solids:	n/a
Project:	TETRPAPT: NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	112	10	mg/l	10	09/28/01 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01SA-03		
Lab Sample ID:	F11028-3	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/28/01
		Percent Solids:	n/a
Project:	TETRPAPT: NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Total Organic Carbon	25.6	2.0	mg/l	2	09/28/01	LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-03S-02		
Lab Sample ID:	F11028-4	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/28/01
		Percent Solids:	n/a
Project:	TETRPAPT: NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	90.0	10	mg/l	10	09/28/01 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-DUP2		
Lab Sample ID:	F11028-5	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/28/01
		Percent Solids:	n/a
Project:	TETRPAPT: NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	22.6	2.0	mg/l	2	09/28/01 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-01SA-03		
Lab Sample ID:	F11028-3	**Date Sampled:**	09/26/01
Matrix:	AQ - Ground Water	**Date Received:**	09/26/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Total Organic Carbon	25.6	2.0	mg/l	2	09/28/01	ATX	EPA 415.1

RL = Reporting Limit

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **SPERANZA, M.** **DATE:** **JANUARY 29, 2002**

FROM: **CATHERINE NORONHA** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – TAL METALS AND MISCELLANEOUS**
CTO-078 NAS CECIL FIELD
SAMPLE DELIVERY GROUP (SDG) – F11076/F10991

SAMPLES: 4/Aqueous/F11076

CEF-293-GW-20-A3 CEF-824A-GW-04S-03
CEF-824A-GW-07S-02 CEF-824A-DUP3

2/pH/F10991
CEF-824A-SB-0151 CEF-B312-SB-010S

Overview

The sample set for CTO 078, NAS CECIL FIELD, SDG F11076/F10991, consists of nine (9) aqueous environmental samples. One field duplicates pair CEF-824A-DUP3/ CEF-824A-GW-04S-03 were included in the SDG F11076.

All samples in SDG 11076 were analyzed for: target analyte list (TAL) metals, alkalinity, sulfates, sulfides, chlorides, nitrates, nitrites, orthophosphate, and Total Organic Carbon (TOC). These samples were collected by TetraTech NUS on September 13, 17 and October 1, 2001. ACCUTEST LABORATORY performed the analyses under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria.

Metal samples were analyzed using CLP methodology. Alkalinity was analyzed using method 310.1. Chloride, Nitrate, Nitrite, and sulfate were analyzed by ion chromatography using EPA method 300. Orthophosphate was analyzed using EPA method 365. Sulfite was analyzed by Titrimetric-Iodine SW 846 using method 9030. TOC was analyzed using method 415.1/9060. SDG 110991 was analyzed for pH only.

These data were evaluated based on the following parameters:

* • Data Completeness
• Holding Times
* • Calibration Recoveries
• Laboratory Blank Analyses
* • Field Duplicate Results
* • 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:

Analyte	Maximum Concentration	Action Level
Iron	14.7 µg/L	73.5 µg/L

An action level of 5X the maximum concentration was to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluation for blank contamination.

Notes

The holding time for orthophosphate was exceeded by one day in SDG 11076.

The holding time for was pH exceeded by 6-10 days in SDG F10991.

TO: SPERANZA, MARK. – PAGE 3
DATE: JANUARY 29, 2002

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method/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 IRCDQM" (September 1999).

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)."

Tetra Tech NUS
Catherine Noronha
Environmental Scientist

TetraTech 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

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-293-GW-20-A3	CEF-824A-DUP3	CEF-824A-GW-04S-03	CEF-824A-GW-07S-02
SAMPLE DATE:	10/01/01	10/01/01	10/01/01	10/01/01
LABORATORY ID:	F11076-3A	F11076-4A	F11076-2A	F11076-1A
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:		CEF-824A-GW-04S-03		

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
IRON	499			506			474			503		

CTO078-NAS CECIL FIELD
SOIL DATA
Accutest, NJ
SDG: F10991

SAMPLE NUMBER:	CEF-824A-SB-015I	CEF-B312-SB-010S		
SAMPLE DATE:	09/13/01	09/17/01	/ /	/ /
LABORATORY ID:	F10991-1	F10991-2		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.4 %	0.4 %	100.0 %	100.0 %
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANIC PARAMETERS												
PH(SU)	6.8	J	H	7.8	J	H						

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11076

SAMPLE NUMBER:	CEF-293-GW-20-A3	CEF-824A-GW-04S-03	CEF-824A-DUP3	CEF-824A-GW-07S-02
SAMPLE DATE:	10/01/01	10/01/01	10/01/01	10/01/01
LABORATORY ID:	F11076-3	F11076-2	F11076-4	F11076-1
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
FIELD DUPLICATE OF:			CEF-824A-GW-04S-03	

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
MISCELLANEOUS PARAMETERS												
ALKALINITY(MG/L)	5.7			5	U		5	U		5	U	
CHLORIDE(MG/L)	20	U		20	U		20	U		20	U	
NITRATE AS NITROGEN(MG/L)	0.1	U		0.1	U		0.1	U		0.1	U	
NITRITE AS NITROGEN(MG/L)	0.01	U		0.1			0.12			0.13		
ORTHOPHOSPHATE(MG/L)	0.1	UJ	H	0.1	UJ	H	0.1	UJ	H	0.1	UJ	H
SULFATE(MG/L)	20	U		20	U		20	U		20	U	
SULFIDE(MG/L)	2	U		8.7			2	U		2	U	

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-20-A3		
Lab Sample ID:	F11076-3A	**Date Sampled:**	10/01/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method
Iron	499	300	9.0	ug/l	1	10/04/01	10/04/01 JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP3		
Lab Sample ID:	F11076-4A	**Date Sampled:**	10/01/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method
Iron	506	300	9.0	ug/l	1	10/04/01	10/04/01 JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-04S-03		
Lab Sample ID:	F11076-2A	**Date Sampled:**	10/01/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method
Iron	474	300	9.0	ug/l	1	10/04/01	10/05/01 JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-07S-02		
Lab Sample ID:	F11076-1A	**Date Sampled:**	10/01/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method
Iron	503	300	9.0	ug/l	1	10/04/01	10/04/01 JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-20-A3		
Lab Sample ID:	F11076-3	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	5.7	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/10/01	SJL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/04/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/10/01	SJL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-04S-03		
Lab Sample ID:	F11076-2	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	<5.0	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/10/01	SJL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	0.10	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/04/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/10/01	SJL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP3		
Lab Sample ID:	F11076-4	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	<5.0	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/10/01	SJL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	0.12	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/04/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/10/01	SJL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-07S-02		
Lab Sample ID:	F11076-1	**Date Sampled:**	10/01/01
Matrix:	AQ - Ground Water	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	<5.0	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/10/01	SJL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	0.13	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/04/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/10/01	SJL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-07S-02		
Lab Sample ID:	F11076-1A	**Date Sampled:**	10/01/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-04S-03		
Lab Sample ID:	F11076-2A	**Date Sampled:**	10/01/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	8.7	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-20-A3		
Lab Sample ID:	F11076-3A	**Date Sampled:**	10/01/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP3		
Lab Sample ID:	F11076-4A	**Date Sampled:**	10/01/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/02/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-SB-015I		
Lab Sample ID:	F10991-1	**Date Sampled:**	09/13/01
Matrix:	SO - Soil	**Date Received:**	09/21/01
		Percent Solids:	81.1
Project:	NAS Cecil Field-CTO0078/N0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Solids, Percent	81.1		%	1	10/01/01	EP	EPA 160.3 M
pH	6.8		su	1	09/24/01	SJL	SW846 9045

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-SB-010S		
Lab Sample ID:	F10991-2	**Date Sampled:**	09/17/01
Matrix:	SO - Soil	**Date Received:**	09/21/01
		Percent Solids:	84.7
Project:	NAS Cecil Field-CTO0078/N0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Solids, Percent	84.7		%	1	10/01/01 EP	EPA 160.3 M
pH	7.8		su	1	09/24/01 SJL	SW846 9045

RL = Reporting Limit

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **SPERANZA, M.** **DATE:** **JANUARY 29, 2002**

FROM: **CATHERINE NORONHA** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – TAL METALS AND MISCELLANEOUS**
CTO-078 NAS CECIL FIELD
SAMPLE DELIVERY GROUP (SDG) – F11089

SAMPLES: 4/Aqueous

CEF-293-GW-13-A3-F
CEF-293-GW-4-A3-F
CEF-312IS-GW-01SA-03-F
CEF-B312-GW-02S-02-F

5/Miscellaneous
CEF-293-GW-13-A3
CEF-293-GW-4-A3
CEF-312IS-GW-01SA-03
CEF-824A-DUP5
CEF-B312-GW-02S-02

Overview

The sample set for CTO 078, NAS CECIL FIELD, SDG F11089 consists of nine (9) aqueous environmental samples. One field duplicates pair CEF-824A-DUP5/ CEF-293-GW-4-A3 only for TOC was included in the SDG.

All samples were analyzed for: target analyte list (TAL) metals, alkalinity, sulfates, sulfides, chlorides, nitrates, nitrites, orthophosphate, and Total Organic Carbon (TOC) . These samples were collected by TetraTech NUS on October 2, 2001 and analyzed by ACCUTEST LABORATORY under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria.

Metal samples were analyzed using CLP methodology. Analyses for alkalinity, chloride, sulfate, TOC, and dissolved sulfide were conducted by using EPA methods 310.1, 325.3, 375.4, 415.1, and 376.1, respectively.

These data were evaluated based on the following parameters:

* • Data Completeness
• Holding Times
* • Calibration Recoveries
• Laboratory Blank Analyses
* • Field Duplicate Results
* • 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:

Analyte	Maximum Concentration	Action Level
Iron	14.7 µg/L	73.5 µg/L

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluation for blank contamination. Positive results less than the action level were reported with "U" as a result of blank contamination.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method/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 IRCDQM" (September 1999).

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)."

Tetra Tech NUS
Catherine Noronha
Environmental Scientist

TetraTech 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

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-293-GW-13-A3-F			CEF-293-GW-4-A3-F			CEF-312IS-GW-01SA-03-F			CEF-B312-GW-02S-02-F		
SAMPLE DATE:	10/02/01			10/02/01			10/02/01			10/02/01		
LABORATORY ID:	F11089-6A			F11089-7A			F11089-13A			F11089-12A		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
IRON	26.0	U	A	96.4			33.2	U	A	20200		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11089

SAMPLE NUMBER:	CEF-293-GW-13-A3			CEF-293-GW-4-A3			CEF-824A-DUP5			CEF-312IS-GW-01SA-03		
SAMPLE DATE:	10/02/01			10/02/01			10/02/01			10/02/01		
LABORATORY ID:	F11089-6			F11089-7			F11089-10			F11089-13		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
FIELD DUPLICATE OF:							CEF-293-GW-4-A3					
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
MISCELLANEOUS PARAMETERS												
ALKALINITY(MG/L)	5	U		41.8						29.2		
CHLORIDE(MG/L)	20	U		20	U					20	U	
NITRATE AS NITROGEN(MG/L)	9.2			0.1	U					0.14		
NITRITE AS NITROGEN(MG/L)	0.5	U		0.1	U					0.1	U	
ORTHOPHOSPHATE(MG/L)	0.1	U		0.1	U					0.1	U	
SULFATE(MG/L)	21.8			20	U					20	U	
SULFIDE(MG/L)	2	U		2	U					2	U	
TOTAL ORGANIC CARBON(MG/L)				39.5			40.5					

SAMPLE NUMBER:	CEF-B312-GW-02S-02											
SAMPLE DATE:	10/02/01			/ /			/ /			/ /		
LABORATORY ID:	F11089-12											
QC_TYPE:	NORMAL											
% SOLIDS:	0.0 %			100.0 %			100.0 %			100.0 %		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
MISCELLANEOUS PARAMETERS												
ALKALINITY(MG/L)	10.3											
CHLORIDE(MG/L)	20	U										
NITRATE AS NITROGEN(MG/L)	0.1	U										
NITRITE AS NITROGEN(MG/L)	0.1	U										
ORTHOPHOSPHATE(MG/L)	0.1	U										
SULFATE(MG/L)	20	U										
SULFIDE(MG/L)	2	U										

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-13-A3		
Lab Sample ID:	F11089-6A	**Date Sampled:**	10/02/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method
Iron	26.0 B	300	9.0	ug/l	1	10/04/01	10/04/01 JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-4-A3		
Lab Sample ID:	F11089-7A	**Date Sampled:**	10/02/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Iron	96.4 B	300	9.0	ug/l	1	10/04/01	10/04/01	JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-312IS-GW-01SA-03		
Lab Sample ID:	F11089-13A	**Date Sampled:**	10/02/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By	Method
Iron	33.2 B	300	9.0	ug/l	1	10/04/01	10/05/01 JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-02S-02		
Lab Sample ID:	F11089-12A	**Date Sampled:**	10/02/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Iron	20200	300	9.0	ug/l	1	10/04/01	10/04/01	JK	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-13-A3		
Lab Sample ID:	F11089-6	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	<5.0	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/11/01	SJL	EPA 300/SW846 9056
Nitrogen, Nitrate	9.2	0.50	mg/l	5	10/03/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.50	0.50	mg/l	5	10/03/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/04/01	AL	EPA 365.2
Sulfate	21.8	20	mg/l	1	10/11/01	SJL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-4-A3		
Lab Sample ID:	F11089-7	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	41.8	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/11/01	SJL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/04/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/11/01	SJL	EPA 300/SW846 9056
Total Organic Carbon	39.5	5.0	mg/l	5	10/04/01	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-312IS-GW-01SA-03		
Lab Sample ID:	F11089-13	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	29.2	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/11/01	SJL	EPA 300/SW846 9056
Nitrogen, Nitrate	0.14	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/04/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/11/01	SJL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-02S-02		
Lab Sample ID:	F11089-12	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	10.3	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	<20	20	mg/l	1	10/11/01	SJL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	10/03/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/04/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/11/01	SJL	EPA 300/SW846 9056

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-13-A3		
Lab Sample ID:	F11089-6A	**Date Sampled:**	10/02/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/08/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-4-A3		
Lab Sample ID:	F11089-7A	**Date Sampled:**	10/02/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/08/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-B312-GW-02S-02		
Lab Sample ID:	F11089-12A	**Date Sampled:**	10/02/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/08/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-312IS-GW-01SA-03		
Lab Sample ID:	F11089-13A	**Date Sampled:**	10/02/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	10/03/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/08/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-4-A3		
Lab Sample ID:	F11089-7	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/04/01
		Percent Solids:	n/a
Project:	TETRPAPT: NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	39.5	5.0	mg/l	5	10/04/01 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DUP5		
Lab Sample ID:	F11089-10	**Date Sampled:**	10/02/01
Matrix:	AQ - Ground Water	**Date Received:**	10/04/01
		Percent Solids:	n/a
Project:	TETRPAPT: NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	40.5	5.0	mg/l	5	10/04/01 LN	EPA 415.1

RL = Reporting Limit

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**SPERANZA, M.**	**DATE:**	**JANUARY 29, 2002**
FROM:	**CATHERINE NORONHA**	**COPIES:**	**DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – TAL METALS AND MISCELLANEOUS**
CTO-078 NAS CECIL FIELD
SAMPLE DELIVERY GROUP (SDG) – F11048

SAMPLES: 4/Aqueous/4/miscellaneous

CEF-293-GW-11-A3	CEF-293-GW-19-A3
CEF-293-GW-22-A3	CEF-824A-GW-09S-02

Overview

The sample set for CTO 078, NAS CECIL FIELD, SDG F11048 consists of four (4) aqueous environmental samples.

All samples were analyzed for: target analyte list (TAL) metals, alkalinity, sulfates, sulfides, chlorides, nitrates, nitrites, orthophosphate, and Total Organic Carbon (TOC). These samples were collected by TetraTech NUS on September 27, 2001 and analyzed by ACCUTEST LABORATORY under Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria.

Metal samples were analyzed using method 6010B. Alkalinity was analyzed using method 310.1. Chloride, Nitrate, Nitrite, and sulfate were analyzed by ion chromatography using EPA method 300. Orthophosphate was analysed using EPA method 365. Sulfite was analyzed by Titrimetric-Iodine SW 846 using method 9030. TOC was analyzed using method 415.1/9060

These data were evaluated based on the following parameters:

* • Data Completeness
• Holding Times
* • Calibration Recoveries
• Laboratory Blank Analyses
* • Field Duplicate Results
* • 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:

Analyte	Maximum Concentration	Action Level
Iron	11.0 µg/L	55.0 µg/L

An action level of 5X the maximum concentration was used to evaluate the sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluation for blank contamination. Positive results for iron that were less than the action level were reported as "U", as a result of blank contamination.

The holding time for orthophosphate was exceeded by three days. Nondetected results were qualified as estimated, UJ.

The ICP serial dilution percent difference iron in the sample was >10% quality control limit. No action was taken.

Executive Summary

Laboratory Performance: Several analytes were present in the laboratory method/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 IRCDQM" (September 1999).

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)."

Tetra Tech NUS
Catherine Noronha
Environmental Scientist

TetraTech NUS
Joseph A. Samchuck
Quality Assurance Officer

TO: SPERANZA, MARK. – PAGE 3
DATE: JANUARY 29, 2002

Attachments:

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

APPENDIX A
QUALIFIED ANALYTICAL RESULTS

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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11048

SAMPLE NUMBER:	CEF-293-GW-11-A3			CEF-293-GW-19-A3			CEF-293-GW-22-A3			CEF-824A-GW-09S-02		
SAMPLE DATE:	09/27/01			09/27/01			09/27/01			09/27/01		
LABORATORY ID:	F11048-1			F11048-4			F11048-2			F11048-3		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
MISCELLANEOUS PARAMETERS												
ALKALINITY(MG/L)	20.6			20			14.3			5	U	
CHLORIDE(MG/L)	23.1			40.9			39.2			22.7		
NITRATE(MG/L)	2.6			0.1	U		42.4			0.1	U	
NITRITE(MG/L)	0.1	U		0.1	U		2.0	U		0.1	U	
ORTHOPHOSPHATE(MG/L)	0.1	UJ	H	0.1	UJ	H	0.1	UJ	H	0.1	UJ	H
SULFATE(MG/L)	20	U		20	U		120			20	U	
SULFIDE(MG/L)	2	U		3.2			2	U		2	U	
TOTAL ORGANIC CARBON(MG/L)	46.5			96			36.8			35		

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11048

SAMPLE NUMBER:	CEF-293-GW-11-A3			CEF-293-GW-19-A3			CEF-293-GW-22-A3			CEF-824A-GW-09S-02		
SAMPLE DATE:	09/27/01			09/27/01			09/27/01			09/27/01		
LABORATORY ID:	F11048-1A			F11048-4A			F11048-2A			F11048-3A		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:												
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
INORGANICS												
IRON	26.9	U	A	1170			59.5			1210		

APPENDIX B
RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A3		
Lab Sample ID:	F11048-1A	**Date Sampled:**	09/27/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Iron	26.9 B	300	9.0	ug/l	1	10/02/01	10/02/01	DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-19-A3		
Lab Sample ID:	F11048-4A	**Date Sampled:**	09/27/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By		Method
Iron	1170	300	9.0	ug/l	1	10/02/01	10/02/01	DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-22-A3		
Lab Sample ID:	F11048-2A	**Date Sampled:**	09/27/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed By		Method
Iron	59.5 B	300	9.0	ug/l	1	10/02/01	10/02/01	DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-09S-02		
Lab Sample ID:	F11048-3A	**Date Sampled:**	09/27/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

Metals Analysis

Analyte	Result	RL	IDL	Units	DF	Prep	Analyzed	By	Method
Iron	1210	300	9.0	ug/l	1	10/02/01	10/02/01	DM	SW846 6010B

RL = Reporting Limit
IDL = Instrument Detection Limit

U = Indicates a result < IDL
B = Indicates a result >= IDL but < RL

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A3		
Lab Sample ID:	F11048-1	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	20.6	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	23.1	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrate	2.6	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/02/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Total Organic Carbon	46.5	5.0	mg/l	5	10/03/01	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-19-A3		
Lab Sample ID:	F11048-4	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Alkalinity, Total	20.0	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	40.9	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/02/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Total Organic Carbon	96.0	10	mg/l	10	10/03/01	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-22-A3		
Lab Sample ID:	F11048-2	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	14.3	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	39.2	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrate	42.4	2.0	mg/l	20	09/28/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<2.0	2.0	mg/l	20	09/28/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/02/01	AL	EPA 365.2
Sulfate	120	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Total Organic Carbon	36.8	2.0	mg/l	2	10/03/01	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-09S-02		
Lab Sample ID:	F11048-3	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By		Method
Alkalinity, Total	<5.0	5.0	mg/l	1	10/10/01	SJL	EPA 310.1
Chloride	22.7	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrate	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Nitrogen, Nitrite	<0.10	0.10	mg/l	1	09/28/01	AL	EPA 300/SW846 9056
Phosphate, Ortho	<0.10	0.10	mg/l	1	10/02/01	AL	EPA 365.2
Sulfate	<20	20	mg/l	1	10/04/01	AL	EPA 300/SW846 9056
Total Organic Carbon	35.0	5.0	mg/l	5	10/03/01	ATX	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A3		
Lab Sample ID:	F11048-1A	**Date Sampled:**	09/27/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-19-A3		
Lab Sample ID:	F11048-4A	**Date Sampled:**	09/27/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	3.2	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-22-A3		
Lab Sample ID:	F11048-2A	**Date Sampled:**	09/27/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-09S-02		
Lab Sample ID:	F11048-3A	**Date Sampled:**	09/27/01
Matrix:	AQ - Groundwater Filtered	**Date Received:**	09/27/01
		Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Sulfide	<2.0	2.0	mg/l	1	10/03/01 AL	EPA 376.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A3		
Lab Sample ID:	F11048-1	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
		Percent Solids:	n/a
Project:	TETRPAPT: NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	46.5	5.0	mg/l	5	10/03/01 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-19-A3		
Lab Sample ID:	F11048-4	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
		Percent Solids:	n/a
Project:	TETRPAPT: NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	96.0	10	mg/l	10	10/03/01 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-22-A3		
Lab Sample ID:	F11048-2	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
		Percent Solids:	n/a
Project:	TETRPAPT: NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	36.8	2.0	mg/l	2	10/03/01 LN	EPA 415.1

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-09S-02		
Lab Sample ID:	F11048-3	**Date Sampled:**	09/27/01
Matrix:	AQ - Ground Water	**Date Received:**	09/29/01
		Percent Solids:	n/a
Project:	TETRPAPT: NAS Cecil Field 0039		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed By	Method
Total Organic Carbon	35.0	5.0	mg/l	5	10/03/01 LN	EPA 415.1

RL = Reporting Limit

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. SPERANZA**	**DATE:**	**JANUARY 28, 2002**
FROM:	**BERNARD F SPADA III**	**COPIES:**	**DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOA/PAH/TPH**
CTO 078, NAS CECIL FIELD
SDG F11818

SAMPLES: 4/Aqueous

CEF-824A-DU01-GW01-01	CEF-824A-GW-01SA-06
CEF-824A-GW-22S-01	CEF-824A-GW-7S-03

OVERVIEW

The sample set for CTO 078, NAS Cecil Field, SDG F11818 consists of four (4) aqueous environmental samples. Sample CEF-824A-DU01-GW01-01 is the duplicate of sample CEF-824A-GW-22S-01. The samples were analyzed for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAH), and petroleum (PET) by methods SW-846 8260B, 8310, and Florida PRO respectively.

The samples were collected by TetraTech NUS on December 14, 2001 and analyzed by Accutest Laboratrories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8260B, 8310, and Florida PRO analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • Initial and continuing calibration
* • Laboratory method and field quality control blank results
  • Field duplicate results
  • Detection Limits

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.

Volatiles

None.

PAH

The prep batch relevant to samples in this SDG. No action required due to the sample concentration being >4X the spike amount.

Petroleum

No qualifiers were assigned to this fraction.

TO: M. SPERANZA – PAGE 2
DATE: JANUARY 28, 2002

EXECUTIVE SUMMARY

Laboratory Performance Issues: None.

Other Factors Affecting Data Quality: None

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines (September, 1999). 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)."

Tetra Tech NUS

Bernard F Spada III
Chemist/Data Validator

TetraTech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11818

SAMPLE NUMBER:	CEF-824A-DU01-GW-01	CEF-824A-GW-01SA-06	CEF-824A-GW-22S-01	CEF-824A-GW-7S-03
SAMPLE DATE:	12/14/01	12/14/01	12/14/01	12/14/01
LABORATORY ID:	F11818-4	F11818-1	F11818-3	F11818-2
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:	CEF-824A-GW-22S-01			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2,2-TETRACHLOROETHANE	2	U		2	U		2	U		2	U	
1,1,2-TRICHLOROETHANE	2	U		2	U		2	U		2	U	
1,1-DICHLOROETHANE	2	U		2	U		2	U		2.9		
1,1-DICHLOROETHENE	2	U		2	U		2	U		2	U	
1,2-DICHLOROETHANE	2	U		2	U		2	U		2	U	
1,2-DICHLOROPROPANE	2	U		2	U		2	U		2	U	
2-BUTANONE	10	U		10	U		10	U		10	U	
2-HEXANONE	10	U		10	U		10	U		10	U	
4-METHYL-2-PENTANONE	10	U		10	U		10	U		10	U	
ACETONE	50	U		50	U		50	U		50	U	
BENZENE	1	U		1	U		1	U		2		
BROMODICHLOROMETHANE	2	U		2	U		2	U		2	U	
BROMOFORM	2	U		2	U		2	U		2	U	
BROMOMETHANE	5	U		5	U		5	U		5	U	
CARBON DISULFIDE	10	U		10	U		10	U		10	U	
CARBON TETRACHLORIDE	2	U		2	U		2	U		2	U	
CHLOROBENZENE	2	U		2	U		2	U		2	U	
CHLORODIBROMOMETHANE	2	U		2	U		2	U		2	U	
CHLOROETHANE	5	U		5	U		5	U		5	U	
CHLOROFORM	2	U		2	U		2	U		2	U	
CHLOROMETHANE	5	U		5	U		5	U		5	U	
CIS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	
CIS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
ETHYLBENZENE	2	U		2	U		2	U		2.1		
METHYLENE CHLORIDE	5	U		5	U		5	U		5	U	
STYRENE	2	U		2	U		2	U		2	U	
TETRACHLOROETHENE	2	U		2	U		2	U		2	U	
TOLUENE	2	U		2	U		2	U		2	U	
TOTAL XYLENES	6	U		6	U		6	U		6	U	
TRANS-1,2-DICHLOROETHENE	2	U		2	U		2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11818

SAMPLE NUMBER:	CEF-824A-DU01-GW-01	CEF-824A-GW-01SA-06	CEF-824A-GW-22S-01	CEF-824A-GW-7S-03
SAMPLE DATE:	12/14/01	12/14/01	12/14/01	12/14/01
LABORATORY ID:	F11818-4	F11818-1	F11818-3	F11818-2
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:	CEF-824A-GW-22S-01			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		2	U		2	U		2	U	
TRICHLOROETHENE	2	U		2	U		2	U		0.84	J	P
VINYL CHLORIDE	1	U		1	U		1	U		1	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11818

SAMPLE NUMBER:	CEF-824A-DU01-GW-01	CEF-824A-GW-01SA-06	CEF-824A-GW-22S-01	CEF-824A-GW-7S-03
SAMPLE DATE:	12/14/01	12/14/01	12/14/01	12/14/01
LABORATORY ID:	F11818-4	F11818-1	F11818-3	F11818-2
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	UG/L	UG/L	UG/L	UG/L
FIELD DUPLICATE OF:	CEF-824A-GW-22S-01			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		2.0	U		2.0	U		2.0	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11818

SAMPLE NUMBER:	CEF-824A-DU01-GW-01			CEF-824A-GW-01SA-06			CEF-824A-GW-22S-01			CEF-824A-GW-7S-03		
SAMPLE DATE:	12/14/01			12/14/01			12/14/01			12/14/01		
LABORATORY ID:	F11818-4			F11818-1			F11818-3			F11818-2		
QC_TYPE:	NORMAL			NORMAL			NORMAL			NORMAL		
% SOLIDS:	0.0 %			0.0 %			0.0 %			0.0 %		
UNITS:	UG/L			UG/L			UG/L			UG/L		
FIELD DUPLICATE OF:	CEF-824A-GW-22S-01											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	2.4	U		1.2	J	P	2	U		24.6		
2-METHYLNAPHTHALENE	2.4	U		2			2	U		30.9		
ACENAPHTHENE	4.8	U		4	U		4	U		4	U	
ACENAPHTHYLENE	4.8	U		4	U		4	U		4	U	
ANTHRACENE	2.4	U		2	U		2	U		2	U	
BENZO(A)ANTHRACENE	0.24	U		0.2	U		0.2	U		0.2	U	
BENZO(A)PYRENE	0.24	U		0.2	U		0.2	U		0.2	U	
BENZO(B)FLUORANTHENE	0.24	U		0.2	U		0.2	U		0.2	U	
BENZO(G,H,I)PERYLENE	0.24	U		0.2	U		0.2	U		0.2	U	
BENZO(K)FLUORANTHENE	0.24	U		0.2	U		0.2	U		0.2	U	
CHRYSENE	2.4	U		2	U		2	U		4	U	
DIBENZO(A,H)ANTHRACENE	0.24	U		0.2	U		0.2	U		0.2	U	
FLUORANTHENE	2.4	U		2	U		2	U		2	U	
FLUORENE	2.4	U		2	U		2	U		2	U	
INDENO(1,2,3-CD)PYRENE	0.24	U		0.2	U		0.2	U		0.2	U	
NAPHTHALENE	2.4	U		2	U		2	U		25.7		
PHENANTHRENE	2.4	U		2	U		2	U		2	U	
PYRENE	2.4	U		2	U		2	U		2	U	

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11818

SAMPLE NUMBER:	CEF-824A-DU01-GW-01	CEF-824A-GW-01SA-06	CEF-824A-GW-22S-01	CEF-824A-GW-7S-03
SAMPLE DATE:	12/14/01	12/14/01	12/14/01	12/14/01
LABORATORY ID:	F11818-4	F11818-1	F11818-3	F11818-2
QC_TYPE:	NORMAL	NORMAL	NORMAL	NORMAL
% SOLIDS:	0.0 %	0.0 %	0.0 %	0.0 %
UNITS:	MG/L	MG/L	MG/L	MG/L
FIELD DUPLICATE OF:	CEF-824A-GW-22S-01			

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.28	U		0.438			0.28	U		2.13		

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-01SA-06		
Lab Sample ID:	F11818-1	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/18/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0007737.D	1	12/27/01	NAF	n/a	n/a	VB334
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-01SA-06		
Lab Sample ID:	F11818-1	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/18/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	106%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-22S-01		
Lab Sample ID:	F11818-3	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/18/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0007722.D	1	12/26/01	NAF	n/a	n/a	VB333
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-22S-01		
Lab Sample ID:	F11818-3	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/18/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-120%
17060-07-0	1,2-Dichloroethane-D4	98%		80-120%
2037-26-5	Toluene-D8	99%		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 blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DU01-GW-01		
Lab Sample ID:	F11818-4	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/18/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0007480.D	1	12/24/01	JG	n/a	n/a	VC347
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DU01-GW-01		
Lab Sample ID:	F11818-4	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/18/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	112%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-7S-03		
Lab Sample ID:	F11818-2	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/18/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0007738.D	1	12/27/01	NAF	n/a	n/a	VB334
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	2.0	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	2.9	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	2.1	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	0.84	2.0	ug/l	J
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-7S-03		
Lab Sample ID:	F11818-2	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/18/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	98%		80-120%
460-00-4	4-Bromofluorobenzene	101%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DU01-GW-01		
Lab Sample ID:	F11818-4	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE006740.D	1	12/21/01	MRE	12/20/01	OP4415	GEE305
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.8	ug/l	
208-96-8	Acenaphthylene	ND	4.8	ug/l	
120-12-7	Anthracene	ND	2.4	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.24	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.24	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.24	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.24	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.24	ug/l	
218-01-9	Chrysene	ND	2.4	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.24	ug/l	
206-44-0	Fluoranthene	ND	2.4	ug/l	
86-73-7	Fluorene	ND	2.4	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.24	ug/l	
91-20-3	Naphthalene	ND	2.4	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.4	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.4	ug/l	
85-01-8	Phenanthrene	ND	2.4	ug/l	
129-00-0	Pyrene	ND	2.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		33-141%
92-94-4	p-Terphenyl	86%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-01SA-06		
Lab Sample ID:	F11818-1	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE006745.D	1	12/24/01	MRE	12/20/01	OP4415	GEE306
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	1.2	2.0	ug/l	J
91-57-6	2-Methylnaphthalene	2.0	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	78%		33-141%
92-94-4	p-Terphenyl	81%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-22S-01		
Lab Sample ID:	F11818-3	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE006739.D	1	12/21/01	MRE	12/20/01	OP4415	GEE305
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		33-141%
92-94-4	p-Terphenyl	76%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-7S-03		
Lab Sample ID:	F11818-2	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	EE006738.D	1	12/21/01	MRE	12/20/01	OP4415	GEE305
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene [b]	ND	4.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	25.7	2.0	ug/l	
90-12-0	1-Methylnaphthalene	24.6	2.0	ug/l	
91-57-6	2-Methylnaphthalene	30.9	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		33-141%
92-94-4	p-Terphenyl	76%		31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Elevated reporting limits due to matrix interference.

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-DU01-GW-01		
Lab Sample ID:	F11818-4	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	OP18947.D	1	12/21/01	SKW	12/20/01	OP4411	GOP706
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		55-130%

(a) Sample not preserved, adjusted to pH < 2 prior to extraction.

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-01SA-06		
Lab Sample ID:	F11818-1	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP18955.D	1	12/24/01	ME	12/20/01	OP4411	GOP707
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.438	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-22S-01		
Lab Sample ID:	F11818-3	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	OP18946.D	1	12/21/01	SKW	12/20/01	OP4411	GOP706
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		55-130%

(a) Sample not preserved, adjusted to pH < 2 prior to extraction.

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-7S-03		
Lab Sample ID:	F11818-2	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP18945.D	1	12/21/01	SKW	12/20/01	OP4411	GOP706
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	2.13	0.25	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		55-130%

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

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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO:	**M. SPERANZA**	**DATE:**	**JANUARY 28, 2002**
FROM:	**BERNARD F SPADA III**	**COPIES:**	**DV FILE**
SUBJECT:	**ORGANIC DATA VALIDATION- VOA/PAH/TPH CTO 078, NAS CECIL FIELD SDG F11817**		
SAMPLES:	2/Aqueous		
	CEF-293-GW-11-A4	CEF-824A-GW-11S-03	

OVERVIEW

The sample set for CTO 078, NAS Cecil Field, SDG F11817 consists of two (2) aqueous environmental samples. The samples were analyzed for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAH), and petroleum (PET) by methods SW-846 8260B, 8310, and Florida PRO respectively.

The samples were collected by TetraTech NUS on December 14, 2001 and analyzed by Accutest Laboratrories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8260B, 8310, and Florida PRO analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • Initial and continuing calibration
* • Laboratory method and field quality control blank results
  • Detection Limits

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.

Volatiles

Both samples were analyzed at a 5X dilution only. This resulted in elevated reporting limits for all non-detected compounds.

PAH

The MS/MSD recoveries were <10% for naphthalene and 2-methylnaphthalene. The unspiked sample CEF-824A-GW-11S-03 concentration was >4X the spike concentration. No action required.

Acenaphthylene and acenaphthene had elevated reporting limits in both samples due to the samples being diluted. Fluorene had and elevated reporting limit in sample CEF-824A-GW-11S-03 due to the sample beign diluted.

Petroleum

No qualifiers were assigned to this fraction.

EXECUTIVE SUMMARY

Laboratory Performance Issues: None.

Other Factors Affecting Data Quality: None

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines (September, 1999). 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)."

Bernard F Spada III
Tetra Tech NUS

Bernard F Spada III
Chemist/Data Validator

Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

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
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11817

SAMPLE NUMBER:	CEF-293-GW-11-A4	CEF-824A-GW-11S-03		
SAMPLE DATE:	12/14/01	12/14/01	/ /	/ /
LABORATORY ID:	F11817-2	F11817-1		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	10	U		10	U							
1,1,2,2-TETRACHLOROETHANE	10	U		10	U							
1,1,2-TRICHLOROETHANE	10	U		10	U							
1,1-DICHLOROETHANE	10	U		10	U							
1,1-DICHLOROETHENE	10	U		10	U							
1,2-DICHLOROETHANE	10	U		10	U							
1,2-DICHLOROPROPANE	10	U		10	U							
2-BUTANONE	50	U		50	U							
2-HEXANONE	50	U		50	U							
4-METHYL-2-PENTANONE	50	U		50	U							
ACETONE	250	U		250	U							
BENZENE	32			7.6								
BROMODICHLOROMETHANE	10	U		10	U							
BROMOFORM	10	U		10	U							
BROMOMETHANE	25	U		25	U							
CARBON DISULFIDE	50	U		50	U							
CARBON TETRACHLORIDE	10	U		10	U							
CHLOROBENZENE	10	U		10	U							
CHLORODIBROMOMETHANE	10	U		10	U							
CHLOROETHANE	25	U		25	U							
CHLOROFORM	10	U		10	U							
CHLOROMETHANE	25	U		25	U							
CIS-1,2-DICHLOROETHENE	10	U		10	U							
CIS-1,3-DICHLOROPROPENE	10	U		10	U							
ETHYLBENZENE	151			85.4								
METHYLENE CHLORIDE	25	U		25	U							
STYRENE	10	U		10	U							
TETRACHLOROETHENE	10	U		10	U							
TOLUENE	59.6			43.2								
TOTAL XYLENES	549			305								
TRANS-1,2-DICHLOROETHENE	10	U		10	U							
TRANS-1,3-DICHLOROPROPENE	10	U		10	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11817

SAMPLE NUMBER:	CEF-293-GW-11-A4	CEF-824A-GW-11S-03	/ /	/ /
SAMPLE DATE:	12/14/01	12/14/01		
LABORATORY ID:	F11817-2	F11817-1		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRICHLOROETHENE	10	U		10	U							
VINYL CHLORIDE	5	U		5	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11817

SAMPLE NUMBER:	CEF-293-GW-11-A4	CEF-824A-GW-11S-03		
SAMPLE DATE:	12/14/01	12/14/01	/ /	/ /
LABORATORY ID:	F11817-2	F11817-1		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	10	U		10	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11817

SAMPLE NUMBER:	CEF-293-GW-11-A4	CEF-824A-GW-11S-03		
SAMPLE DATE:	12/14/01	12/14/01	/ /	/ /
LABORATORY ID:	F11817-2	F11817-1		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	84.8			145								
2-METHYLNAPHTHALENE	87.8			172								
ACENAPHTHENE	20	U		40	U							
ACENAPHTHYLENE	20	U		40	U							
ANTHRACENE	2	U		2	U							
BENZO(A)ANTHRACENE	0.2	U		0.2	U							
BENZO(A)PYRENE	0.2	U		0.2	U							
BENZO(B)FLUORANTHENE	0.2	U		0.2	U							
BENZO(G,H,I)PERYLENE	0.2	U		0.2	U							
BENZO(K)FLUORANTHENE	0.2	U		0.2	U							
CHRYSENE	4	U		4	U							
DIBENZO(A,H)ANTHRACENE	0.2	U		0.2	U							
FLUORANTHENE	2	U		2	U							
FLUORENE	10	U		20	U							
INDENO(1,2,3-CD)PYRENE	0.2	U		0.2	U							
NAPHTHALENE	155			354								
PHENANTHRENE	2	U		2	U							
PYRENE	2	U		2	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11817

SAMPLE NUMBER:	CEF-293-GW-11-A4	CEF-824A-GW-11S-03		
SAMPLE DATE:	12/14/01	12/14/01	/ /	/ /
LABORATORY ID:	F11817-2	F11817-1		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	MG/L	MG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	5.95			15								

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A4		
Lab Sample ID:	F11817-2	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/15/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0007747.D	5	12/27/01	NAF	n/a	n/a	VB334
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	250	ug/l	
71-43-2	Benzene	32.0	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	10	ug/l	
75-00-3	Chloroethane	ND	25	ug/l	
67-66-3	Chloroform	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	151	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	50	ug/l	
74-83-9	Methyl bromide	ND	25	ug/l	
74-87-3	Methyl chloride	ND	25	ug/l	
75-09-2	Methylene chloride	ND	25	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	ug/l	
100-42-5	Styrene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	ug/l	
127-18-4	Tetrachloroethylene	ND	10	ug/l	
108-88-3	Toluene	59.6	10	ug/l	
79-01-6	Trichloroethylene	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	549	30	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A4		
Lab Sample ID:	F11817-2	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/15/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	97%		80-120%
2037-26-5	Toluene-D8	98%		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 blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-11S-03		
Lab Sample ID:	F11817-1	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/15/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0007746.D	5	12/27/01	NAF	n/a	n/a	VB334
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	250	ug/l	
71-43-2	Benzene	7.6	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	ug/l	
75-25-2	Bromoform	ND	10	ug/l	
108-90-7	Chlorobenzene	ND	10	ug/l	
75-00-3	Chloroethane	ND	25	ug/l	
67-66-3	Chloroform	ND	10	ug/l	
75-15-0	Carbon disulfide	ND	50	ug/l	
56-23-5	Carbon tetrachloride	ND	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	ug/l	
75-35-4	1,1-Dichloroethylene	ND	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	ug/l	
124-48-1	Dibromochloromethane	ND	10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	10	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	ug/l	
100-41-4	Ethylbenzene	85.4	10	ug/l	
591-78-6	2-Hexanone	ND	50	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	50	ug/l	
74-83-9	Methyl bromide	ND	25	ug/l	
74-87-3	Methyl chloride	ND	25	ug/l	
75-09-2	Methylene chloride	ND	25	ug/l	
78-93-3	Methyl ethyl ketone	ND	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	ug/l	
100-42-5	Styrene	ND	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	ug/l	
127-18-4	Tetrachloroethylene	ND	10	ug/l	
108-88-3	Toluene	43.2	10	ug/l	
79-01-6	Trichloroethylene	ND	10	ug/l	
75-01-4	Vinyl chloride	ND	5.0	ug/l	
1330-20-7	Xylene (total)	305	30	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-11S-03		
Lab Sample ID:	F11817-1	Date Sampled:	12/14/01
Matrix:	AQ - Ground Water	Date Received:	12/15/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	95%		80-120%
2037-26-5	Toluene-D8	97%		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 blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A4		
Lab Sample ID:	F11817-2	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/15/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE006736.D	1	12/21/01	MRE	12/20/01	OP4415	GEE305
Run #2 [a]	EE006749.D	5	12/24/01	MRE	12/20/01	OP4415	GEE306

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND [b]	20	ug/l	
208-96-8	Acenaphthylene	ND [b]	20	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene [c]	ND	4.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND [b]	10	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	155 [b]	10	ug/l	
90-12-0	1-Methylnaphthalene	84.8 [b]	10	ug/l	
91-57-6	2-Methylnaphthalene	87.8 [b]	10	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	119%	123%	33-141%
92-94-4	p-Terphenyl	82%	87%	31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2
(c) Elevated reporting limits due to matrix interference.

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-11S-03		
Lab Sample ID:	F11817-1	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/15/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EE006733.D	1	12/21/01	MRE	12/20/01	OP4415	GEE305
Run #2 [a]	EE006746.D	10	12/24/01	MRE	12/20/01	OP4415	GEE306

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND [b]	40	ug/l	
208-96-8	Acenaphthylene	ND [b]	40	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene [c]	ND	4.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND [b]	20	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	354 [b]	20	ug/l	
90-12-0	1-Methylnaphthalene	145 [b]	20	ug/l	
91-57-6	2-Methylnaphthalene	172 [b]	20	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	110%	110%	33-141%
92-94-4	p-Terphenyl	82%	96%	31-122%

(a) All hits confirmed by spectral match using a diode array detector.
(b) Result is from Run# 2
(c) Elevated reporting limits due to matrix interference.

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-293-GW-11-A4		
Lab Sample ID:	F11817-2	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/15/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP18957.D	4	12/24/01	ME	12/20/01	OP4411	GOP707
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	5.95	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-11S-03		
Lab Sample ID:	F11817-1	**Date Sampled:**	12/14/01
Matrix:	AQ - Ground Water	**Date Received:**	12/15/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP18956.D	10	12/24/01	ME	12/20/01	OP4411	GOP707
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	15.0	2.5	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		55-130%

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

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

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **M. SPERANZA** **DATE:** **JANUARY 28, 2002**

FROM: **BERNARD F SPADA III** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION- VOA/PAH/TPH**
CTO 078, NAS CECIL FIELD
SDG F11800

SAMPLES: 2/Aqueous

CEF-824A-GW-21I-01 CEF-824A-SW-01

OVERVIEW

The sample set for CTO 078, NAS Cecil Field, SDG F11800 consists of two (2) aqueous environmental samples. The samples were analyzed for volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAH), and petroleum (PET) by methods SW-846 8260B, 8310, and Florida PRO respectively.

The samples were collected by TetraTech NUS on December 17, 2001 and analyzed by Accutest Laboratrories. All analyses were conducted in accordance with Naval Facilities Engineering Service Center (NFESC) Quality Assurance/Quality Control (QA/QC) criteria using SW-846 Method 8260B, 8310, and Florida PRO analytical and reporting protocols. The data contained in this SDG were validated with regard to the following parameters:

* • Data completeness
* • Holding times
* • Initial and continuing calibration
* • Laboratory method and field quality control blank results
* • Detection Limits

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.

Volatiles

The LCS fell below the % recovery acceptance range for trans-1,3-dichloropropene. No qualification was made due to a limited review being performed.

The MS/MSD samples fell below the % recovery acceptance range for trans-1,3-dichloropropene and cis-1,3-dichloropropene. The RPD exceeded the %RPD acceptance range for trans-1,3-dichloropropene. No qualifications were made due to the noncompliances being minimal and a limited review being performed.

PAH

None.

Petroleum

No qualifiers were assigned to this fraction.

EXECUTIVE SUMMARY

Laboratory Performance Issues: None.

Other Factors Affecting Data Quality: None

The data for these analyses were reviewed with reference to the EPA Functional Guidelines for Organic Data Validation (10/99) and the NFESC guidelines (September, 1999). 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)."

Tetra Tech NUS

Bernard F Spada III
Chemist/Data Validator

Tetra Tech NUS

Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

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

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

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
N01 = Internal Standard Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
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/PCD% 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 = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is less than sample activity

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11800

SAMPLE NUMBER:	CEF-824A-GW-21I-01	CEF-824A-SW01	/ /	/ /
SAMPLE DATE:	12/17/01	12/17/01		
LABORATORY ID:	F11800-1	F11800-2		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
1,1,1-TRICHLOROETHANE	2	U		2	U							
1,1,2,2-TETRACHLOROETHANE	2	U		2	U							
1,1,2-TRICHLOROETHANE	2	U		2	U							
1,1-DICHLOROETHANE	2	U		2	U							
1,1-DICHLOROETHENE	2	U		2	U							
1,2-DICHLOROETHANE	2	U		2	U							
1,2-DICHLOROPROPANE	2	U		2	U							
2-BUTANONE	10	U		10	U							
2-HEXANONE	10	U		10	U							
4-METHYL-2-PENTANONE	10	U		10	U							
ACETONE	50	U		50	U							
BENZENE	1.8			1	U							
BROMODICHLOROMETHANE	2	U		2	U							
BROMOFORM	2	U		2	U							
BROMOMETHANE	5	U		5	U							
CARBON DISULFIDE	10	U		10	U							
CARBON TETRACHLORIDE	2	U		2	U							
CHLOROBENZENE	2	U		2	U							
CHLORODIBROMOMETHANE	2	U		2	U							
CHLOROETHANE	5	U		5	U							
CHLOROFORM	2	U		2	U							
CHLOROMETHANE	5	U		5	U							
CIS-1,2-DICHLOROETHENE	2	U		2	U							
CIS-1,3-DICHLOROPROPENE	2	U		2	U							
ETHYLBENZENE	2.2			2	U							
METHYLENE CHLORIDE	5	U		5	U							
STYRENE	2	U		2	U							
TETRACHLOROETHENE	2	U		2	U							
TOLUENE	1.5	J	P	2	U							
TOTAL XYLENES	9			6	U							
TRANS-1,2-DICHLOROETHENE	2	U		2	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11800

SAMPLE NUMBER:	CEF-824A-GW-21I-01	CEF-824A-SW01		
SAMPLE DATE:	12/17/01	12/17/01	/ /	/ /
LABORATORY ID:	F11800-1	F11800-2		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
TRANS-1,3-DICHLOROPROPENE	2	U		2	U							
TRICHLOROETHENE	2	U		2	U							
VINYL CHLORIDE	1	U		1	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11800

SAMPLE NUMBER:	CEF-824A-GW-21I-01	CEF-824A-SW01	/ /	/ /
SAMPLE DATE:	12/17/01	12/17/01		
LABORATORY ID:	F11800-1	F11800-2		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
POLYNUCLEAR AROMATIC HYDROCARBONS												
1-METHYLNAPHTHALENE	10.5			2	U							
2-METHYLNAPHTHALENE	13.3			2	U							
ACENAPHTHENE	4	U		4	U							
ACENAPHTHYLENE	4	U		4	U							
ANTHRACENE	2	U		2	U							
BENZO(A)ANTHRACENE	0.2	U		0.2	U							
BENZO(A)PYRENE	0.2	U		0.2	U							
BENZO(B)FLUORANTHENE	0.2	U		0.2	U							
BENZO(G,H,I)PERYLENE	0.2	U		0.2	U							
BENZO(K)FLUORANTHENE	0.2	U		0.2	U							
CHRYSENE	2	U		2	U							
DIBENZO(A,H)ANTHRACENE	0.2	U		0.2	U							
FLUORANTHENE	2	U		2	U							
FLUORENE	2	U		2	U							
INDENO(1,2,3-CD)PYRENE	0.2	U		0.2	U							
NAPHTHALENE	6.3			2	U							
PHENANTHRENE	2	U		2	U							
PYRENE	2	U		2	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11800

SAMPLE NUMBER:	CEF-824A-GW-21I-01	CEF-824A-SW01	/ /	/ /
SAMPLE DATE:	12/17/01	12/17/01		
LABORATORY ID:	F11800-1	F11800-2		
QC_TYPE:	NORMAL	NORMAL		
% SOLIDS:	0.0 %	0.0 %	100.0 %	100.0 %
UNITS:	UG/L	UG/L		
FIELD DUPLICATE OF:				

	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
VOLATILES												
METHYL TERT-BUTYL ETHER	2.0	U		2.0	U							

CTO078-NAS CECIL FIELD
WATER DATA
Accutest, NJ
SDG: F11800

SAMPLE NUMBER:	CEF-824A-GW-21I-01			CEF-824A-SW01			/ /			/ /	
SAMPLE DATE:	12/17/01			12/17/01							
LABORATORY ID:	F11800-1			F11800-2							
QC_TYPE:	NORMAL			NORMAL							
% SOLIDS:	0.0 %			0.0 %			100.0 %			100.0 %	
UNITS:	MG/L			MG/L							
FIELD DUPLICATE OF:											
	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE	RESULT	QUAL	CODE
TPH (C8-C40)	0.744			0.28	U							

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-21I-01		
Lab Sample ID:	F11800-1	Date Sampled:	12/17/01
Matrix:	AQ - Ground Water	Date Received:	12/18/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0007759.D	1	12/28/01	NAF	n/a	n/a	VB335
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	1.8	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	2.2	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	1.5	2.0	ug/l	J
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	9.0	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-21I-01		
Lab Sample ID:	F11800-1	Date Sampled:	12/17/01
Matrix:	AQ - Ground Water	Date Received:	12/18/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-120%
17060-07-0	1,2-Dichloroethane-D4	94%		80-120%
2037-26-5	Toluene-D8	96%		80-120%
460-00-4	4-Bromofluorobenzene	101%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-SW01		
Lab Sample ID:	F11800-2	Date Sampled:	12/17/01
Matrix:	AQ - Ground Water	Date Received:	12/18/01
Method:	SW846 8260B	Percent Solids:	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	B0007760.D	1	12/28/01	NAF	n/a	n/a	VB335
Run #2							

VOA TCL List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	50	ug/l	
71-43-2	Benzene	ND	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	ug/l	
75-25-2	Bromoform	ND	2.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	ug/l	
67-66-3	Chloroform	ND	2.0	ug/l	
75-15-0	Carbon disulfide	ND	10	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	ug/l	
75-35-4	1,1-Dichloroethylene	ND	2.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	ug/l	
100-41-4	Ethylbenzene	ND	2.0	ug/l	
591-78-6	2-Hexanone	ND	10	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	10	ug/l	
74-83-9	Methyl bromide	ND	5.0	ug/l	
74-87-3	Methyl chloride	ND	5.0	ug/l	
75-09-2	Methylene chloride	ND	5.0	ug/l	
78-93-3	Methyl ethyl ketone	ND	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	2.0	ug/l	
100-42-5	Styrene	ND	2.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	ug/l	
127-18-4	Tetrachloroethylene	ND	2.0	ug/l	
108-88-3	Toluene	ND	2.0	ug/l	
79-01-6	Trichloroethylene	ND	2.0	ug/l	
75-01-4	Vinyl chloride	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	6.0	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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-SW01	Date Sampled:	12/17/01
Lab Sample ID:	F11800-2	Date Received:	12/18/01
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	NAS Cecil Field 0039		

VOA TCL List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-120%
17060-07-0	1,2-Dichloroethane-D4	96%		80-120%
2037-26-5	Toluene-D8	97%		80-120%
460-00-4	4-Bromofluorobenzene	104%		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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-21I-01		
Lab Sample ID:	F11800-1	**Date Sampled:**	12/17/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	AA009810.D	1	12/26/01	MRE	12/22/01	OP4432	GAA436
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	6.3	2.0	ug/l	
90-12-0	1-Methylnaphthalene	10.5	2.0	ug/l	
91-57-6	2-Methylnaphthalene	13.3	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	58%		33-141%
92-94-4	p-Terphenyl	50%		31-122%

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

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-SW01		
Lab Sample ID:	F11800-2	**Date Sampled:**	12/17/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	EPA 8310 SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	AA009813.D	1	12/26/01	MRE	12/22/01	OP4432	GAA436
Run #2							

Polynuclear Aromatic Hydrocarbons

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	4.0	ug/l	
208-96-8	Acenaphthylene	ND	4.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.20	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.20	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.20	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.20	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.20	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.20	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
90-12-0	1-Methylnaphthalene	ND	2.0	ug/l	
91-57-6	2-Methylnaphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	69%		33-141%
92-94-4	p-Terphenyl	78%		31-122%

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 Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-GW-21I-01		
Lab Sample ID:	F11800-1	**Date Sampled:**	12/17/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP18997.D	1	12/26/01	ME	12/22/01	OP4433	GOP708
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	0.744	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		55-130%

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

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

Accutest Laboratories

Report of Analysis

Client Sample ID:	CEF-824A-SW01		
Lab Sample ID:	F11800-2	**Date Sampled:**	12/17/01
Matrix:	AQ - Ground Water	**Date Received:**	12/18/01
Method:	FLORIDA-PRO SW846 3510C	**Percent Solids:**	n/a
Project:	NAS Cecil Field 0039		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	OP19001.D	1	12/26/01	ME	12/22/01	OP4433	GOP708
Run #2							

CAS No.	Compound	Result	RL	Units	Q
	TPH (C8-C40)	ND	0.28	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		55-130%

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

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

APPENDIX F

GEOTECHNICAL SAMPLE ANALYSES

Civil Services, Inc.

P.O.BOX 8185, JACKSONVILLE, FLORIDA 32239/(904)641-1834

LABORATORY SOIL TEST RESULT

Client: Tetra Tech Nus. Inc.

CSI Report No: 28

Project: Laboratory Services - Cecil Field

CSI Project No: 9363-01

Project Location: Jacksonville, Florida

Client Project No: CT00078N0039

P.O. No: PITT-N0039-P1146(SD)

****

CSI Sample No: 28
Sample ID: CEF-824A-SB-015I
Comments: 36'-38'
Soil Description: Light Brown fine SAND
Date Received: 9-21-01

****

TEST RESULTS

Sieve Size	% Passing
No.4	100
No.10	100
No.60	98.9
No.100	20.1
No.200	3.7

Specific Gravity: 2.659
Dry Bulk Density (pcf): 98.1
Soil Porosity: 0.41

Reviewed By: Sue Khosrojdi S

Civil Services, Inc.

P.O.BOX 8185, JACKSONVILLE, FLORIDA 32239/(904)641-1834

LABORATORY SOIL TEST RESULTS

Client: Tetra Tech Nus. Inc.

CSI Report No: 29

Project: Laboratory Services - Cecil Field

CSI Project No: 9363-01

Project Location: Jacksonville, Florida

Client Project No: CT00078N0039

P.O. No: PITT-N0039-P1146(SD)

****

CSI Sample No: 29
Sample ID: CEF-312-SB-10S
Comments: 6'-8'
Soil Description: Light Tan Slightly Silty Fine SAND
Date Received: 9-21-01

****

TEST RESULTS

Sieve Size	% Passing
No.4	100
No.10	100
No.60	85.6
No.100	24.8
No.200	8.7

Specific Gravity: 2.648
Dry Bulk Density (pcf): 107.0
Soil Porosity: 0.35

Reviewed By: Sue Khosnejad S