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QUARTERLY GROUNDWATER SAMPLING OCTOBER 1999 OPERABLE UNIT 3 (OU 3)
WITH TRANSMITTAL LETTER NTC ORLANDO FL
2/1/2000
TETRA TECH

TETRA TECH NUS, INC.
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08.04.03.0002
00248

00-A012

February 1, 2000

Commanding Officer
SOUTHNAVFACENGCOM
ATTN: Ms. Barbara Nwokike, Code 1873
P.O. Box 190010
2155 Eagle Drive
North Charleston, SC 29419-9010

Subject: Operable Unit 3 Quarterly Groundwater Sampling, October 1999
McCoy Annex, NTC, Orlando

Dear Ms. Nwokike:

Enclosed are the results from the quarterly groundwater sampling conducted at OU 3 in October, 1999. The results for this and previous sampling events, are summarized in the attached tables and figures. Copies of the field log sheets are included in Attachment A.

The next sampling at OU 3 was completed on January 25, 2000, and the results will be issued in April 2000. If you have any questions please contact me at (423) 220-4730.

Sincerely,

Steven B. McCoy

Steven B. McCoy, P.E.
Task Order Manager

SBM:ckf

Enclosure

c: Mr. Rick Allen, Harding Lawson Associates
Mr. David Grabka, FDEP
Mr. Wayne Hansel, SOUTHNAVFACENGCOM
Ms. Nancy Rodriguez, USEPA Region IV
Mr. Steve Sangaris, CH2M Hill
Mr. Michael Campbell, Tetra Tech NUS
Mr. Mark Perry, Tetra Tech NUS (unbound)
Ms. Debbie Wroblewski, Tetra Tech NUS (cover letter only)
File/db

GROUNDWATER SAMPLING AT OPERABLE UNIT 3

Trip Dates: October 19-22, 1999

Site Name: Operable Unit 3: Study Areas 8 and 9
Main Base, Naval Training Center, Orlando, Florida

TO Manager: Steve McCoy

Field Team: Jason McCann, Field Operations Leader
Kevin Margetts
Gary Sparks
Jerry Krieger

Prepared by: David Stair

1.0 PURPOSE

Quarterly groundwater sampling was conducted at Operable Unit (OU) 3 (Study Areas 8 and 9) in October 1999. The fieldwork was performed in accordance with the *Work Plan for Groundwater Sampling* (Tetra Tech NUS, 1999a), and the *Project Operations Plan* (POP) (ABB-ES, 1997).

2.0 ACTIVITIES

Tetra Tech NUS mobilized to the field on Oct. 18, 1999, to perform quarterly monitoring at Study Areas (SA) 2, 3, and 52, and OU 3. Work at OU 3 began on Oct. 19, 1999, with a site reconnaissance, a water level survey, and groundwater sampling.

Water Level Survey - Groundwater levels were measured at SA 8 on October 19 and at SA 9 on October 20. Groundwater elevations for this field event and previous events are summarized in Table 1 for SA 8 and in Table 2 for SA 9.

Sampling - Groundwater sampling was conducted on October 19-22, 1999. Fourteen wells (four 2-in wells and ten ½-in microwells) at SA 8 and 15 wells (five 2-in wells and ten ½-in microwells) at SA 9 were sampled. All wells were purged and sampled using the low-flow method described in the POP. Purging of wells consisted of removing groundwater with a peristaltic pump at a rate of approximately 100 ml/min until field parameters, which include temperature, pH, conductivity, turbidity, dissolved oxygen, and oxidation-reduction potential, had stabilized. Water levels in the 2-in wells were monitored every 3 to 5 minutes to ensure that drawdown was less than 0.3 ft. In the 0.5-inch microwells, the small diameter of the well casing prevented simultaneous measurement of the depth to water during purging.

Of the 14 total groundwater samples from SA 8, six (OLD-08-08, -10, -11, -14, -15, -18) were analyzed for herbicides using SW 846 Method 8151A and Total Analyte List (TAL) metals using SW 846 Method 6010A; the remaining eight were analyzed for TAL metals only. Of the 15 total groundwater samples from SA 9, nine were analyzed for TAL metals, pesticides using Method 8181, and herbicides using Method 8151A; five (OLD-09-03, -04, -12, -14, -15) were analyzed for those parameters and semi-volatile organic compounds (SVOCs) using Method 8270; and one sample (OLD-09-19) was analyzed for SVOCs, herbicides, and TAL metals. All samples were placed in ice-cooled coolers and shipped via overnight delivery to Quanterra Environmental Services in North Canton, OH for analysis.

3.0 PROBLEMS ENCOUNTERED

Turbidity exceeded 10 NTU in two wells, OLD-08-15 (99.6 NTU) and OLD-09-02 (22.1 NTU), but was stable within ±5%. The final turbidity in OLD-09-02 had also been elevated (55 NTU) in the last round of sampling (July/August 1999), but turbidity in OLD-08-15 had been 4.2 NTU. For six wells at SA 8 and ten wells at SA 9, the turbidity did not stabilize within the limits specified in the work plan but was less than 10 NTU at the time of sampling. Groundwater purging and sampling log sheets are included in Attachment A.

4.0 RESULTS

Water Level Survey – The groundwater elevation data are presented in Tables 1 and 2. Water level elevation maps are presented in Figures 1 (SA 8) and 2 (SA 9). Groundwater at SA 8 flows to the west toward Lake Baldwin. Groundwater at SA 9 shows divergent flow with groundwater north of Trident Lane flowing to the northeast toward Lake Baldwin and groundwater in the eastern portion of the site flowing to the southeast. These flow directions are consistent with those reported earlier by Tetra Tech (1999b) and HLA (1999).

Data Validation - All sample analyses were subjected to data validation in accordance with the guidance document *Navy Installation Restoration Chemical Data Quality Assurance Manual* (NFESC, 1998). Qualification of the data was performed using the USEPA Contract Laboratory Program guidelines for inorganic and organic data review (USEPA, 1994a, and 1994b). The data validation evaluated data completeness, holding time compliance, calibration compliance, laboratory blank contamination, surrogate spike recovery, matrix spike recovery, blank spike recovery, internal standard response, sample quantitation, and detection limits. Qualifiers resulting from the validation process are shown with the analyte concentrations in Tables 3, 4, and 5.

Analytical Results – The positive detections for this round of sampling are summarized in Table 3, the historical groundwater detections are presented in Table 4, and a complete listing of the validated analytical data for the October 1999 sampling event is included as Table 5. Shaded cells indicate concentrations equal to

or above Florida Groundwater Cleanup Target Levels (GCTLs) (FDEP, 1999) or established background concentrations (ABB-ES, 1995). The distributions of contaminants detected above the GCTLs are shown on Figures 3 and 4.

At SA 8, arsenic concentrations exceeded the screening level (GCTL) in 11 of the 14 wells sampled. The maximum arsenic concentration of 610 µg/L was found in the sample from well OLD-08-03. Concentrations of arsenic measured in October increased from the levels measured in July/August in seven wells and decreased in six wells. Arsenic levels in OLD-08-13 near the shoreline of Lake Baldwin have been below the screening criterion for three consecutive sampling events in 1999 after the initial exceedance in 1997. Antimony was detected above the screening level for the first time in five wells (OLD-08-01, -02, -03, -08, and -14) and decreased below the criterion in one well (OLD-08-17). Lead was detected above its GCTL for the first time in two wells (OLD-08-05 and –15) and remained above the GCTL in a third well (OLD-08-14). The herbicide MCPP, detected in one well (OLD-08-18), was the only organic analyte detected above screening criteria. The exceedances at SA 8 are summarized below.

Exceedances at SA 8 – July/August and October, 1999

Analyte	Screening Criteria (µg/L)	July/August 1999		October, 1999	
		No. of Wells*	Concentration Range (µg/L)	No. of Wells*	Concentration Range (µg/L)
Primary Exceedances:					
Antimony	6	1	12.2	5	6 –13.8
Arsenic	50	11	99.2 – 609	11	54 – 610
Lead	15	1	34.8	3	28.5 – 151
MCPP	7	4	99 J – 280 J	1	180 J
Secondary Exceedances:					
Aluminum	4067	2	4300 J – 4310 J	0	-
Iron	1227	3	1650 – 5190	3	2150 – 10500
Manganese	50	5	68.1 – 338	5	55.4 - 185

* A total of 14 monitoring wells were sampled.

At SA 9, arsenic was found above the screening criterion in 4 of the 15 wells sampled. The maximum arsenic concentration of 650 µg/L was found in shallow groundwater at monitoring well OLD-09-04. During the previous sampling event in July/August 1999, the maximum of 1370 µg/L was also found in this well. Concentrations of arsenic detected in October decreased in eight wells from concentrations measured in July/August 1999. Of the organic contaminants detected in October, MCPA and MCPP were detected above GCTLs most frequently. The exceedances at SA 9 are summarized below.

Exceedances at SA 9 – July/August and October, 1999

Analyte	Screening Criteria (µg/L)	July/August, 1999		October, 1999	
		No. of Wells*	Concentration Range (µg/L)	No. of Wells *	Concentration Range (µg/L)
Primary Exceedances:					
Antimony	6	1	17.7	0	-
Arsenic	50	5	141 - 1370	4	53.8 - 650
a-BHC	0.006	1	2.5 J	1	0.39
2,4-dichlorophenol	0.5	1	45/30	1	4.9 J
Lindane	0.2	1	1.9 J /1.7 J	1	0.46
MCPA	3.5	0	-	3	33 J – 120 J
MCPP	7	3	170 J – 910 J	2	74J - 520
Secondary Exceedances:					
Aluminum	4067	1	7740 J	0	-
Iron	1227	3	1290 – 6350	1	1940
Manganese	50	1	79.9	3	56.3 - 134

* A total of 15 monitoring wells were sampled.

MCPA/MCPP Reporting and Method Detection Limits – The MCPA and MCPP reporting limits for this and the previous sample event (July/August 1999) were typically 400 µg/L. The reporting limits were established by the calibration standards used by Quanterra who analyzed the samples. According to Quanterra the method detection limits (MDL) for MCPA and MCPP are 30 and 33 µg/L, respectively. Thus, concentrations approaching 30 µg/L for MCPA or and 33 µg/L MCPP should have been detected and reported as "J" or estimated values. For example, the concentration of MCPP in sample NTC08G1812 is reported as 180 J.

Quanterra has taken steps to lower their MCPA and MCPP reporting limits to 40 µg/L but this will not be achieved until the January 2000 sampling round. The MDLs for MCPA and MCPP should also decrease, but will remain higher than the GCTLs of 3.5 µg/L for MCPA and 7 µg/L for MCPP. Efforts to locate a laboratory that can achieve MDLs equal to the GCTLs were unsuccessful.

5.0 REFERENCES

ABB-ES (ABB Environmental Services, Inc.), 1995. *Background Sampling Report, Naval Training Center, Orlando, Florida*. Unit Identification Code N65928, Navy CLEAN District 1, Contract No. N62467-89-D-0317, August.

ABB-ES (ABB Environmental Services, Inc.), 1997. *Project Operations Plan for Site Investigations and Remedial Investigations.* Naval Training Center, Orlando, Florida, Unit Identification Code N65928, Navy CLEAN District 1, Contract No. N62467-89-D-0317, August.

FDEP (Florida Department of Environmental Protection), 1999. *Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C.* CEH/TR-99-01, May 26, 1999.

HLA (Harding Lawson Associates), 1999. *Remedial Investigation and Feasibility Study, Operable Unit 3. Naval Training Center, Orlando, Florida*, Unit Identification Code N65928, Navy CLEAN District 1, Contract No. N62467-89-D-0317/136, June.

NFESC (Naval Facilities Engineering Service Center), 1998. *Navy Installation Restoration Chemical Data Quality Assurance Manual (Interim Guidance Document),* June.

Tetra Tech NUS, Inc., 1999a. *Work Plan for Groundwater Sampling*. Document No. R4707995, September.

Tetra Tech NUS, Inc., 1999b. *Groundwater Sampling at Operable Unit 3.* Document R4710991. December 6, 1999.

USEPA, 1994a. *USEPA Contract Laboratory Program: Nation Functional Guidelines for Inorganic Data Review.* EPA/540/R-94/013, Office of Solid Waste and Emergency Response, Washington, D.C., February

USEPA, 1994b. *USEPA Contract Laboratory Program: Nation Functional Guidelines for Organic Data Review.* EPA/540/R-94/012, Office of Solid Waste and Emergency Response, Washington, D.C., February.

FIGURES

No.

1 Groundwater Elevation Map on October 19, 1999, Operable Unit 3 - Study Area 8
2 Groundwater Elevation Map on October 19, 1999, Operable Unit 3 - Study Area 9
3 Groundwater Exceedances, October 1999, Operable Unit 3 - Study Area 8
4 Groundwater Exceedances, October 1999, Operable Unit 3 - Study Area 9

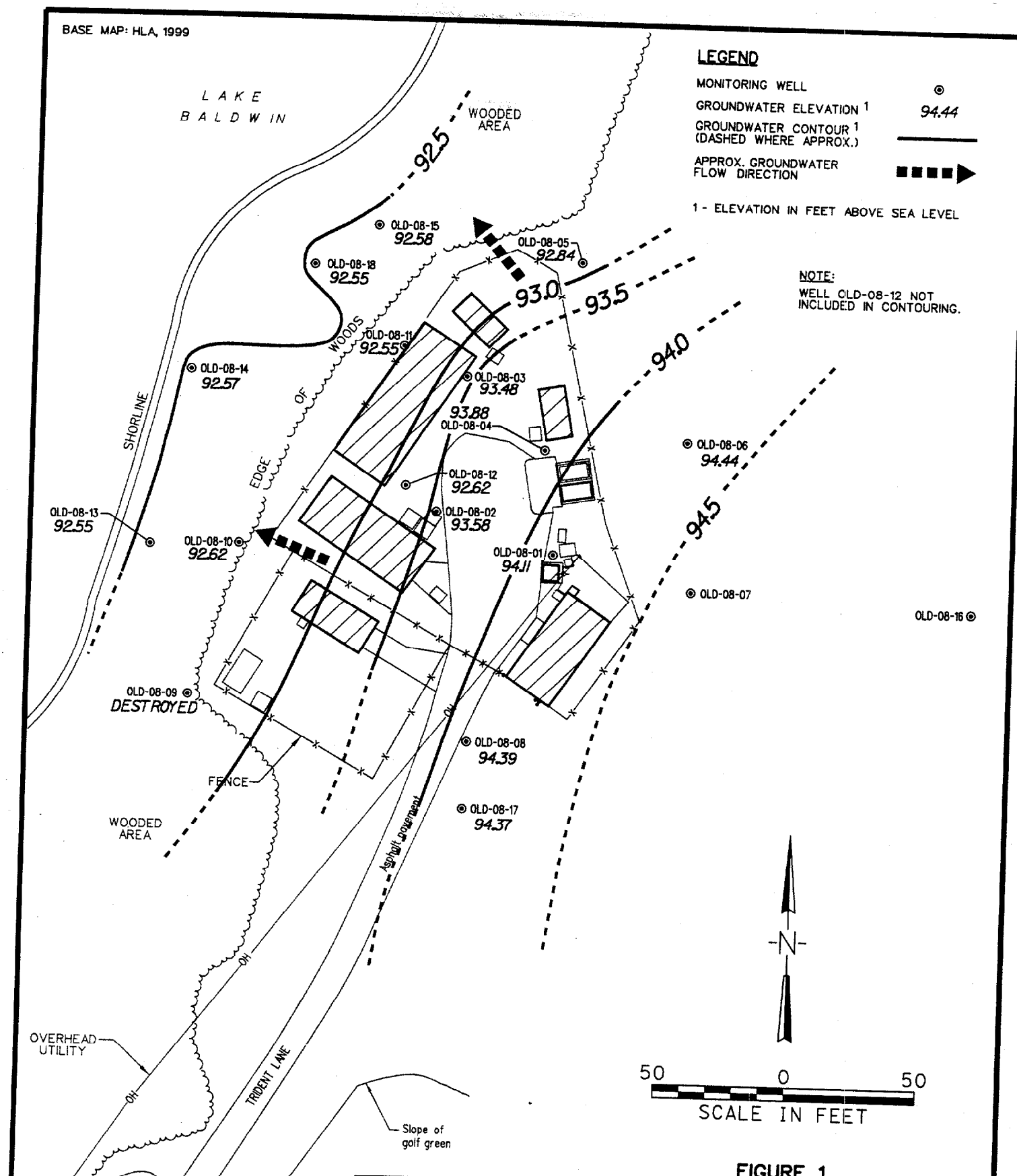


FIGURE 1

GROUNDWATER ELEVATION MAP
ON OCTOBER 19, 1999
OPERABLE UNIT 3 - STUDY AREA 8
GROUNDWATER MONITORING REPORT

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

CAD FILE NO./DATE: 7457M030.dgn/1-31-00

n8-5x11v.dgn

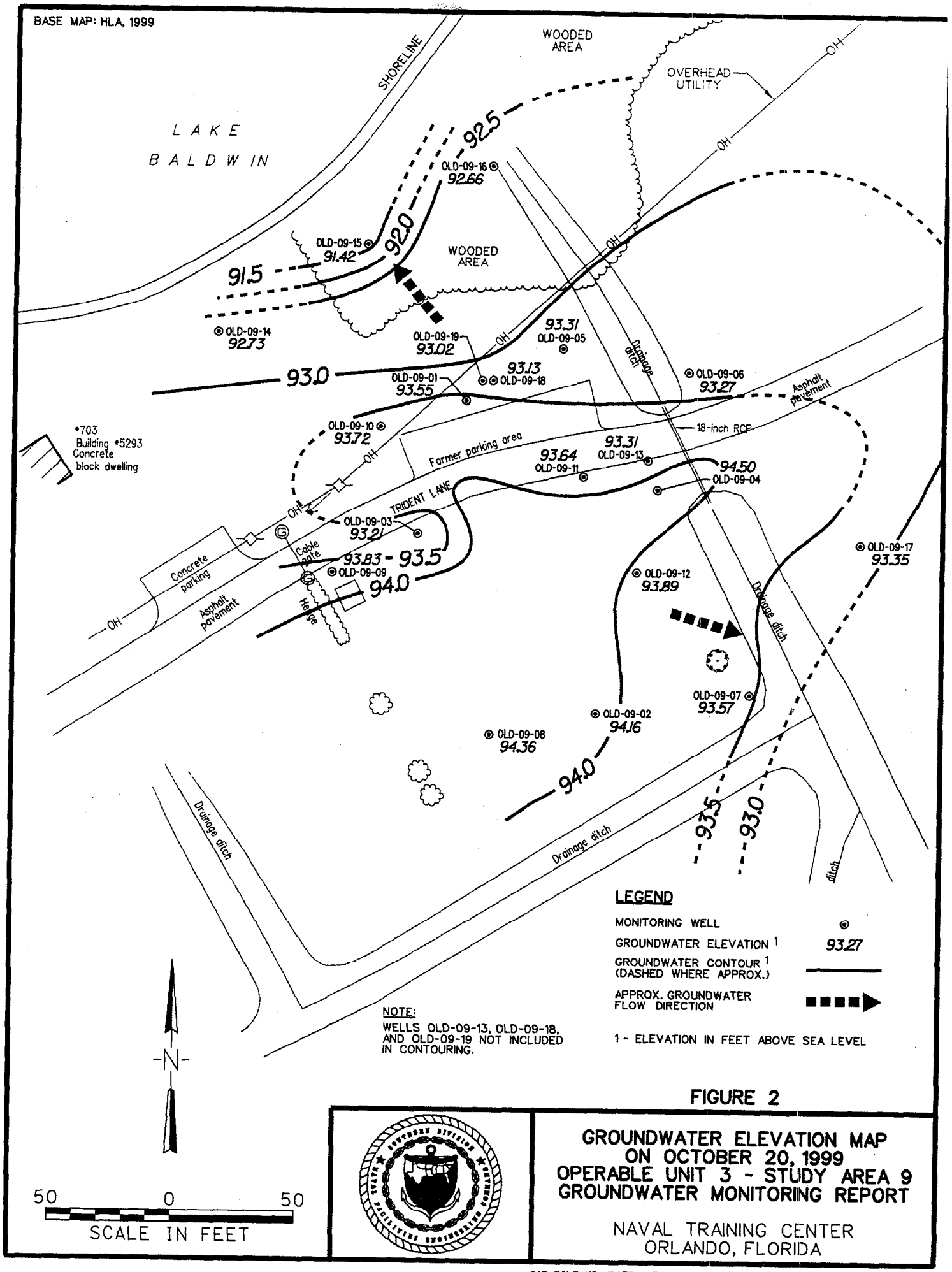


FIGURE 2

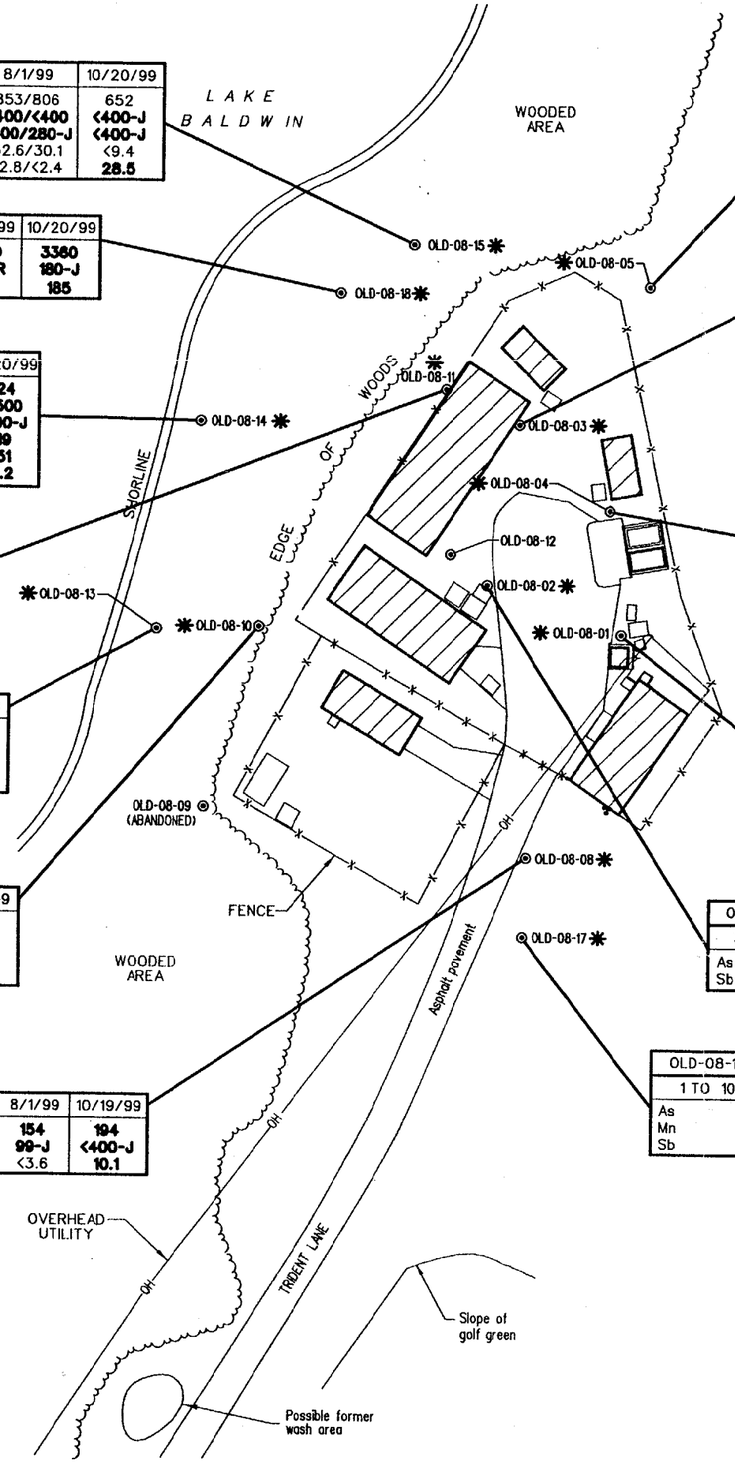
GROUNDWATER ELEVATION MAP ON OCTOBER 20, 1999
OPERABLE UNIT 3 - STUDY AREA 9
GROUNDWATER MONITORING REPORT

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

n8-5x11v.dgn

CAD FILE NO./DATE: 7457M031.dgn/2-1-00

BASE MAP: HLA, 1999



OLD-08-15				
1 TO 7	12/5/97	3/13/99	8/1/99	10/20/99
Fe	498	**1960**	853/806	652
MCPA	**1200-DJ**	**<50**	**<400/<400**	**<400-J**
MCPP	**<60**	**<50**	**<400/280-J**	**<400-J**
Mn	**72.9**	**83.9**	32.6/30.1	<9.4
Pb	2.3-J	NS	<2.8/<2.4	**28.5**

OLD-08-18				
2 TO 11	2/19/98	3/12/99	7/31/99	10/20/99
Fe	550	NS	**3550**	**3360**
MCPP	NS	NS	**320-R**	**180-J**
Mn	<23.4	NS	**204**	**185**

OLD-08-14				
1 TO 7	12/8/97	3/15/99	7/31/99	10/20/99
As	7.1-J	9.5	**100**	**224**
Fe	**1730-J**	**7340-J**	**5190**	**10500**
MCPP	**200-J**	**<50**	**190-J**	**<400-J**
Mn	**172**	**132-J**	**304**	**119**
Pb	3.1	**21.1**	**34.8**	**151**
Sb	<2	<3.3	**<6.8**	**11.2**

OLD-08-11				
1 TO 10	10/23/97	3/12/99	7/30/99	10/19/99
As	**223**	**315-J**	**170**	**114**
Dieldrin	**0.019-J**	NA	NA	NA
MCPP	**660-J**	**<50**	**110-J**	**<400-J**

OLD-08-13				
1 TO 7	12/5/97	3/15/99	7/31/99	10/21/99
As	**88.2**	19	24.3/22.6	30.7
Fe	447	**2470-J**	**1660/1650**	**2150**
MCPA	**660-J**	**<100**	NA	NA
Mn	**148**	**124-J**	**68.1/68.7**	**75.1**

OLD-08-10				
1 TO 10	10/23/97	3/12/99	7/30/99	10/21/99
As	**209**	**122-J**	**189**	**276**
Fe	825	**1400**	<104	120
MCPP	**900-J**	**<51**	**540-R**	**<400**
Mn	**54.4**	**56.8**	<14.7	29.3

OLD-08-08				
1 TO 10	10/22/97	3/11/99	8/1/99	10/19/99
As	**122/120**	**175**	**154**	**194**
MCPP	**<110/710-J**	**<50**	**99-J**	**<400-J**
Sb	<2.9	<14	<3.6	**10.1**

OLD-08-05				
1 TO 10	10/23/97	3/10/99	7/29/99	10/21/99
Al	<96.7/<120	126	**4310-J**	289/276
As	**57.7/57.3**	**56.9**	**284**	**54/55.3**
Mn	**160/162**	**146-J**	**338**	25.2/25.5
Pb	<1.9/<1.9	<1.4	3.7	**35.7/34.1**

OLD-08-03				
3 TO 13	10/22/97	3/11/99	7/28/99	10/19/99
Al	<80.9	168	**4300-J**	721
As	**79.9**	**260**	**234**	**610**
Fe	231	**1260**	750	201
MCPA	**640-J**	**<50**	NA	NA
Mn	15.3	19.6	12.2	**55.4**
Sb	<2.9	<4.7	**<8.1**	**13.8**

OLD-08-06				
1 TO 10	10/23/97	3/11/99	7/29/99	10/19/99
As	**53**	**88.5**	**138**	**71.8**
Fe	198	**33300**	<61.9	185
Mn	24.2	**110**	**69.6**	11.7

OLD-08-04				
3 TO 13	10/22/97	3/11/99	7/28/99	10/19/99
As	**70.4**	**102/106**	**99.2**	**381**

OLD-08-07				
1 TO 10	10/23/97	3/15/99	7/28/99	10/19/99
As	**56.4**	47.9	NS	NS

OLD-08-01				
3 TO 13	10/22/97	3/13/99	7/28/99	10/19/99
As	**133**	**138-J/128-J**	**183**	**229**
Fe	**1460**	<311/<451	155	<98.3
MCPP	**790-J**	**<50/<50**	NA	NA
Naph	**25**	NA	NA	NA
Sb	7.7-J	<5.6	<3.6	**7.4**

OLD-08-02				
3 TO 13	10/22/97	3/11/99	7/28/99	10/19/99
As	**295**	**294**	**609**	**581**
Sb	<2.9	<3.3	<3.4	**6**

OLD-08-17				
1 TO 10	2/18/98	3/11/99	7/30/99	10/19/99
As	**98.8**	**167**	**191**	**158**
Mn	<10.5	10.1	<6	**59.1**
Sb	<2.5	<3.3	**12.2**	4.6

LEGEND

ASTERISK INDICATES WELLS SAMPLED — ✱OLD-08-01

MONITORING WELL — ⊙

SCREEN INTERVAL TO NEAREST FOOT — SAMPLE COLLECTION DATE — DUPLICATE SAMPLE

3 TO 13	10/22/97	3/13/99	7/28/99
As	**133**	**138-J/128-J**	**183**
Fe	**1460**	<311/<451	155
MCPP	**790-J**	**<50/<50**	NA
Naph	25	NA	NA

ANALYTE — ANALYTE 1,2 CONCENTRATION

ESTIMATED CONCENTRATION	J
VALUE FROM DILUTION	D
NOT ANALYZED	NA
REJECTED	R
NOT SAMPLED	NS

1-CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
2-BOLD CONCENTRATION INDICATES EXCEEDANCE

SCREENING CRITERIA

ANALYTE	GCTL[1]	BGSV[1]
Al	200	4067
As	50	5
Dieldrin	0.005	-
Fe	300	1227
MCPA	3.5	-
MCPP	7	-
Mn	50	17
Naph	20	-
Pb	15	4
Sb	6	4.1

GCTL=GROUNDWATER CLEANUP TARGET LEVEL
BGSV=BACKGROUND SCREENING VALUE

NOTE:
DATA ARE SHOWN FOR LOCATIONS WITH PAST OR CURRENT SCREENING CRITERIA EXCEEDANCES.

-N-

50 0 50
SCALE IN FEET

FIGURE 3

GROUNDWATER EXCEEDANCES
OCTOBER, 1999
QUARTERLY MONITORING REPORT
OPERABLE UNIT 3 - STUDY AREA 8

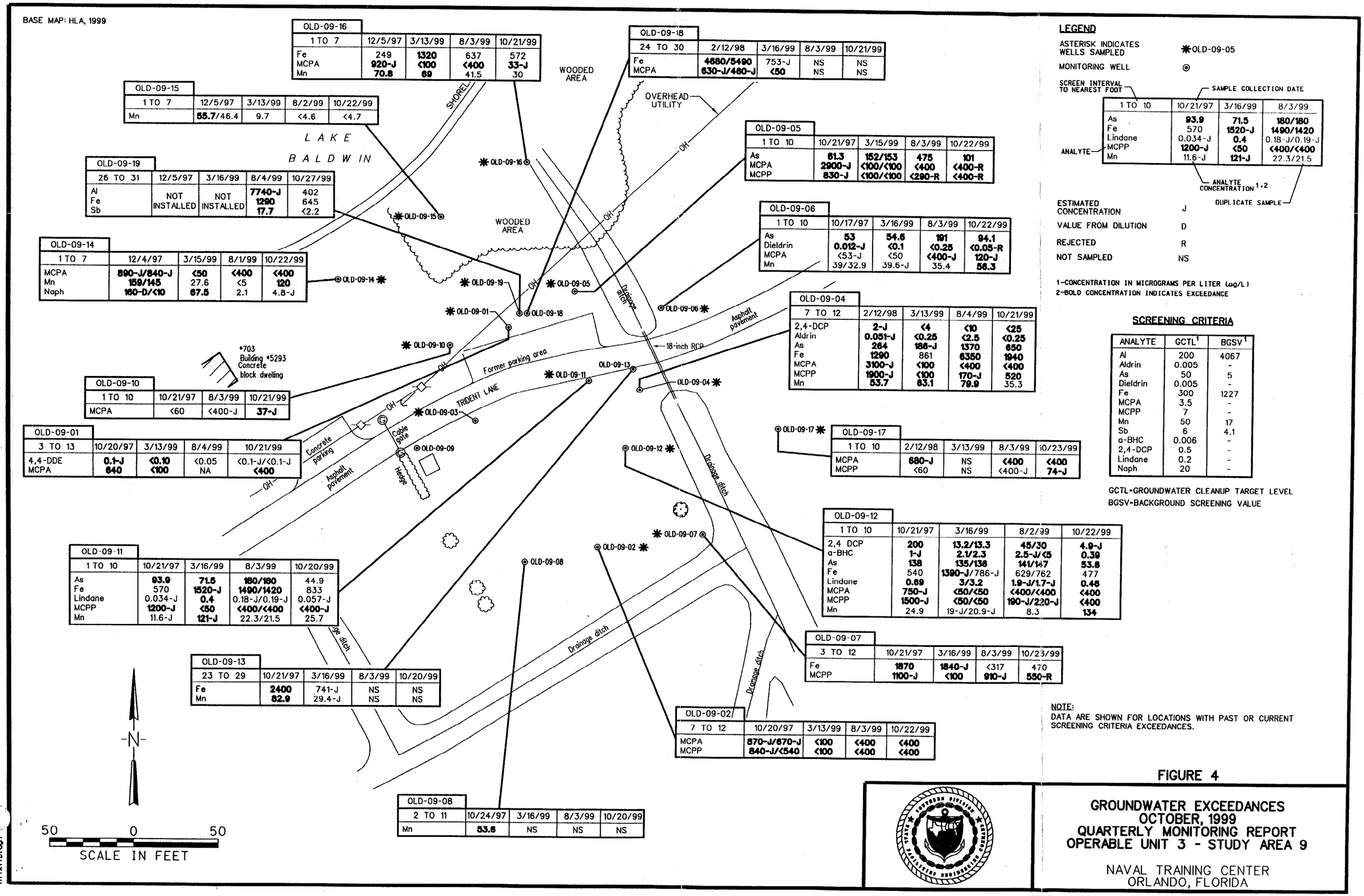
NAVAL TRAINING CENTER
ORLANDO, FLORIDA

CAD FILE NO./DATE: 7457M028.dgn/1-31-00

00248FB12

n11x17b.dgn

BASE MAP: HLA, 1999



OLD-09-16				
1 TO 7	12/5/97	3/13/99	8/3/99	10/21/99
Fe	249	**1320**	637	572
MCPA	**920-J**	**<100**	**<400**	**33-J**
Mn	**70.8**	**69**	41.5	30

OLD-09-15				
1 TO 7	12/5/97	3/13/99	8/2/99	10/22/99
Mn	**55.7**/46.4	9.7	<4.6	<4.7

OLD-09-19				
26 TO 31	12/5/97	3/16/99	8/4/99	10/27/99
Al	NOT INSTALLED	NOT INSTALLED	**7740-J**	402
Fe			**1290**	645
Sb			**17.7**	<2.2

OLD-09-14				
1 TO 7	12/4/97	3/15/99	8/1/99	10/22/99
MCPA	**890-J/840-J**	**<50**	**<400**	**<400**
Mn	**159/145**	27.6	<5	**120**
Naph	**160-D/<10**	**67.5**	2.1	4.8-J

OLD-09-10			
1 TO 10	10/21/97	8/3/99	10/21/99
MCPA	<60	<400-J	**37-J**

OLD-09-01				
3 TO 13	10/20/97	3/13/99	8/4/99	10/21/99
4,4-DDE	**0.1-J**	**<0.10**	<0.05	<0.1-J/<0.1-J
MCPA	**640**	**<100**	NA	**<400**

OLD-09-11				
1 TO 10	10/21/97	3/16/99	8/3/99	10/20/99
As	**93.9**	**71.5**	**180/180**	44.9
Fe	570	**1520-J**	**1490/1420**	833
Lindane	0.034-J	**0.4**	0.18-J/0.19-J	0.057-J
MCPP	**1200-J**	**<50**	**<400/<400**	**<400-J**
Mn	11.6-J	**121-J**	22.3/21.5	25.7

OLD-09-13				
23 TO 29	10/21/97	3/16/99	8/3/99	10/20/99
Fe	**2400**	741-J	NS	NS
Mn	**82.9**	29.4-J	NS	NS

OLD-09-08				
2 TO 11	10/24/97	3/16/99	8/3/99	10/20/99
Mn	**53.6**	NS	NS	NS

OLD-09-18				
24 TO 30	2/12/98	3/16/99	8/3/99	10/21/99
Fe	**4680/5490**	753-J	NS	NS
MCPA	**630-J/460-J**	**<50**	NS	NS

OLD-09-05				
1 TO 10	10/21/97	3/15/99	8/3/99	10/22/99
As	**61.3**	**152/153**	**475**	**101**
MCPA	**2900-J**	**<100/<100**	**<400**	**<400-R**
MCPP	**830-J**	**<100/<100**	**<290-R**	**<400-R**

OLD-09-06				
1 TO 10	10/17/97	3/16/99	8/3/99	10/22/99
As	**53**	**54.6**	**191**	**94.1**
Dieldrin	**0.012-J**	**<0.1**	**<0.25**	**<0.05-R**
MCPA	<53-J	<50	**<400-J**	**120-J**
Mn	39/32.9	39.6-J	35.4	**56.3**

OLD-09-04				
7 TO 12	2/12/98	3/13/99	8/4/99	10/21/99
2,4-DCP	**2-J**	**<4**	**<10**	**<25**
Aldrin	**0.051-J**	**<0.25**	**<2.5**	**<0.25**
As	**264**	**186-J**	**1370**	**650**
Fe	**1290**	861	**6350**	**1940**
MCPA	**3100-J**	**<100**	**<400**	**<400**
MCPP	**1900-J**	**<100**	**170-J**	**520**
Mn	**53.7**	**63.1**	**79.9**	35.3

OLD-09-17				
1 TO 10	2/12/98	3/13/99	8/3/99	10/23/99
MCPA	**680-J**	NS	**<400**	**<400**
MCPP	<60	NS	<400-J	**74-J**

OLD-09-12				
1 TO 10	10/21/97	3/16/99	8/2/99	10/22/99
2,4 DCP	**200**	**13.2/13.3**	**45/30**	**4.9-J**
α-BHC	**1-J**	**2.1/2.3**	**2.5-J/<5**	**0.39**
As	**138**	**135/136**	**141/147**	**53.8**
Fe	540	**1390-J**/786-J	629/762	477
Lindane	**0.69**	**3/3.2**	**1.9-J/1.7-J**	**0.46**
MCPA	**750-J**	**<50/<50**	**<400/<400**	**<400**
MCPP	**1500-J**	**<50/<50**	**190-J/220-J**	**<400**
Mn	24.9	19-J/20.9-J	8.3	**134**

OLD-09-07				
3 TO 12	10/21/97	3/16/99	8/3/99	10/23/99
Fe	**1870**	**1840-J**	<317	470
MCPP	**1100-J**	**<100**	**910-J**	**550-R**

OLD-09-02				
7 TO 12	10/20/97	3/13/99	8/3/99	10/22/99
MCPA	**870-J/670-J**	**<100**	**<400**	**<400**
MCPP	**840-J/<540**	**<100**	**<400**	**<400**

LEGEND

ASTERISK INDICATES WELLS SAMPLED — ✱OLD-09-05

MONITORING WELL — ⊙

SCREEN INTERVAL TO NEAREST FOOT — SAMPLE COLLECTION DATE

1 TO 10	10/21/97	3/16/99	8/3/99
As	**93.9**	**71.5**	**180/180**
Fe	570	**1520-J**	**1490/1420**
Lindane	0.034-J	**0.4**	0.18-J/0.19-J
MCPP	**1200-J**	**<50**	**<400/<400**
Mn	11.6-J	**121-J**	22.3/21.5

ANALYTE — ANALYTE CONCENTRATION[1,2] — DUPLICATE SAMPLE

ESTIMATED CONCENTRATION	J
VALUE FROM DILUTION	D
REJECTED	R
NOT SAMPLED	NS

1-CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
2-BOLD CONCENTRATION INDICATES EXCEEDANCE

SCREENING CRITERIA

ANALYTE	GCTL[1]	BGSV[1]
Al	200	4067
Aldrin	0.005	-
As	50	5
Dieldrin	0.005	-
Fe	300	1227
MCPA	3.5	-
MCPP	7	-
Mn	50	17
Sb	6	4.1
α-BHC	0.006	-
2,4-DCP	0.5	-
Lindane	0.2	-
Naph	20	-

GCTL=GROUNDWATER CLEANUP TARGET LEVEL
BGSV=BACKGROUND SCREENING VALUE

NOTE:
DATA ARE SHOWN FOR LOCATIONS WITH PAST OR CURRENT SCREENING CRITERIA EXCEEDANCES.

FIGURE 4

GROUNDWATER EXCEEDANCES
OCTOBER, 1999
QUARTERLY MONITORING REPORT
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

n11x17b.dgn

CAD FILE NO./DATE: 7457M029.dgn/2-1-00

TABLES

No.

1 Water-Level Elevations Summary, Operable Unit 3 - Study Area 8

2 Water-Level Elevations Summary, Operable Unit 3 - Study Area 9

3 Positive Detections in Groundwater - October 1999

4 Historical Detections in Groundwater

5 Validated Groundwater Analytical Results - October 1999

TABLE 1

WATER-LEVEL ELEVATIONS SUMMARY
OPERABLE UNIT 3 - STUDY AREA 8

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well	Well Type	Screen Interval (BGS)	TOC Elevation (AMSL)	11/97		4/27/98		5/13/98		3/14/99		7/20/99		10/19/99	
				Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)
OLD-08-01	2" well	3-13	94.96	1.74	93.22	2.36	92.60	2.65	92.31	3.70	91.26	2.23	92.73	0.85	94.11
OLD-08-02	2" well	3-13	94.77	1.85	92.92	2.47	92.30	2.74	92.03	3.65	91.12	2.30	92.47	1.19	93.58
OLD-08-03	2" well	3-13	94.31	1.61	92.70	2.34	91.97	2.65	91.66	3.21	91.10	1.89	92.42	0.83	93.48
OLD-08-04	2" well	3-13	94.62	1.58	93.04	2.19	92.43	2.45	92.17	3.45	91.17	1.99	92.63	0.74	93.88
OLD-08-05	½" µ well	1-10	93.64	0.80	92.84	1.29	92.35	1.55	92.09	2.35	91.29	1.02	92.62	0.80	92.84
OLD-08-06	½" µ well	1-10	95.06	1.56	93.50	2.15	92.91	2.46	92.60	3.75	91.31	1.99	93.07	0.62	94.44
OLD-08-07	½" µ well	1-10	95.40	1.73	93.67	2.36	93.04	2.67	92.73	3.81	91.59	2.31	93.09	NM	NM
OLD-08-08	½" µ well	1-10	95.22	1.73	93.49	2.33	92.89	2.64	92.58	3.67	91.55	2.29	92.93	0.83	94.39
OLD-08-09	½" µ well	1-10	93.53	1.75	91.78	2.13	91.40	2.37	91.16	destroyed		destroyed		destroyed	
OLD-08-10	½" µ well	1-10	93.07	1.28	91.79	1.61	91.46	1.84	91.23	2.31	90.76	1.58	91.49	0.45	92.62
OLD-08-11	½" µ well	1-10	93.00	0.99	92.01	1.55	91.45	1.80	91.20	2.57	90.43	1.28	91.72	0.45	92.55
OLD-08-12	½" µ well	23-29	94.50	not installed		NM	NM	NM	NM	4.27	90.23	3.32	91.18	1.88	92.62
OLD-08-13	½" µ well	1.13-7.13	95.98	not installed		5.16	90.82	4.84	91.14	5.34	90.64	4.66	91.32	3.43	92.55
OLD-08-14	½" µ well	1.12-7.12	97.12	not installed		5.86	91.26	6.03	91.09	6.44	90.68	5.59	91.53	4.55	92.57
OLD-08-15	½" µ well	1.22-7.22	96.41	not installed		5.19	91.22	5.44	90.97	5.89	90.52	5.33	91.08	3.83	92.58
OLD-08-16	½" µ well	1-10	96.34	not installed		3.05	93.29	3.42	92.92	NM	NM	3.14	93.20	NM	NM
OLD-08-17	½" µ well	09-9.9	94.92	not installed		2.10	92.82	2.40	92.52	3.43	91.49	2.10	92.82	0.55	94.37
OLD-08-18	½" µ well	1.5-10.5	95.32	not installed		5.18	90.14	4.33	90.99	5.10	90.22	4.13	91.19	2.77	92.55

Notes:
All measurements are in units of feet.

AMSL - Above mean sea level
BGS - Below ground surface
BTOC - Below top of casing
NM - Not measured
TOC - Top of casing

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TABLE 2

WATER-LEVEL ELEVATIONS SUMMARY
OPERABLE UNIT 3 - STUDY AREA 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well	Well Type	Screen Interval (BGS)	TOC Elevation (AMSL)	11/97		4/27/98		5/8/98		3/16/99		7/19/99		10/20/99	
				Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)	Depth to Water (BTOC)	Groundwater Elevation (AMSL)
OLD-09-01	2" well	3-13	94.66	2.26	92.40	2.95	91.71	3.18	91.48	3.82	90.84	2.65	92.01	1.11	93.55
OLD-09-02	2" well	7-12	97.72	4.69	93.03	5.39	92.33	5.68	92.04	6.71	91.01	5.43	92.29	3.56	94.16
OLD-09-03	2" well	7-12	97.81	5.62	92.19	6.12	91.69	6.35	91.46	7.08	90.73	6.13	91.68	4.60	93.21
OLD-09-04	2" well	7-12	97.18	4.89	92.29	5.38	91.80	5.63	91.55	6.48	90.70	5.23	91.95	2.68	94.50
OLD-09-05	½" μ well	1-10	94.16	1.84	92.32	2.52	91.64	2.72	91.44	3.36	90.80	2.33	91.83	0.85	93.31
OLD-09-06	½" μ well	1-10	93.87	1.53	92.34	2.05	91.82	2.31	91.56	2.74	91.13	1.63	92.24	0.60	93.27
OLD-09-07	½" μ well	3-12	95.69	2.63	93.06	4.26	91.43	4.46	91.23	5.15	90.54	4.29	91.40	2.12	93.57
OLD-09-08	½" μ well	2-11	95.59	2.31	93.28	3.05	92.54	3.31	92.28	4.27	91.32	3.00	92.59	1.23	94.36
OLD-09-09	½" μ well	1-10	95.17	2.17	93.00	2.80	92.37	3.05	92.12	3.81	91.36	2.62	92.55	1.34	93.83
OLD-09-10	½" μ well	1-10	94.63	1.96	92.67	2.70	91.93	2.88	91.75	3.59	91.04	2.38	92.25	0.91	93.72
OLD-09-11	½" μ well	1-10	95.05	2.28	92.77	2.90	92.15	3.12	91.93	3.77	91.28	2.65	92.40	1.41	93.64
OLD-09-12	½" μ well	1-10	95.21	2.70	92.51	2.80	92.41	3.17	92.04	4.02	91.19	2.92	92.29	1.32	93.89
OLD-09-13	½" μ well	23-29	94.91	2.98	91.93	22.70	72.21	2.58	92.33	22.64	72.27	3.45	91.46	1.60	93.31
OLD-09-14	½" μ well	1.39-7.39	97.11	not installed		5.60	91.51	5.78	91.33	6.29	90.82	5.73	91.38	4.38	92.73
OLD-09-15	½" μ well	1.18-7.18	96.62	not installed		5.23	91.39	5.34	91.28	5.86	90.76	5.33	91.29	5.20	91.42
OLD-09-16	½" μ well	1.11-7.11	96.61	not installed		5.19	91.42	5.35	91.26	5.86	90.75	5.29	91.32	3.95	92.66
OLD-09-17	½" μ well	0.93-9.93	95.00	not installed		3.59	91.41	3.79	91.21	4.46	90.54	3.64	91.36	1.65	93.35
OLD-09-18	½" μ well	23.6-29.6	94.74	not installed		23.45	71.29	3.44	91.30	23.38	71.36	3.30	91.44	1.61	93.13
OLD-09-19	2" well	25.5-30.5	94.59	not installed										1.57	93.02

Notes:

All measurements are in units of feet.

AMSL - Above mean sea level

BGS - Below ground surface

BTOC - Below top of casing

NM - Not measured

TOC - Top of casing

CTO 0024

02/01/00

TABLE 3

POSITIVE DETECTIONS IN GROUNDWATER - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-01	OLD-08-02	OLD-08-03	OLD-08-04	OLD-08-05		OLD-08-06	OLD-08-08
Sample ID			NTC08G0112	NTC08G0212	NTC08G0312	NTC08G0412	NTC08G0512	NTC08G0512-D	NTC08G0612	NTC08G0812
Lab ID	Florida	NTC	A9J210106004	A9J210106003	A9J210106007	A9J210106005	A9J220158007	A9J220158008	A9J210106008	A9J210106002
Sample Date	GCTL[b]	BGSV[c]	10/19/99	10/19/99	10/19/99	10/19/99	10/21/99	10/21/99	10/19/99	10/19/99
Semivolatiles (µg/L)			NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	0.5									
Naphthalene	20									
Pesticides (µg/L)			NA	NA	NA	NA	NA	NA	NA	NA
alpha-BHC	0.006									
alpha-Chlordane[d]	2									
gamma-BHC (Lindane)	0.2									
gamma-Chlordane[d]	2									
Herbicides (µg/L)			NA	NA	NA	NA	NA	NA	NA	
Dicamba	210									
MCPA	3.5									
MCPP	7									
Pentachlorophenol	1									NA
Inorganics (µg/L)										
Aluminum	200	4067	156	515	721	261	289	276	94.6	
Antimony	6	4.1	7.4	6	13.8	3.6				10.1
Arsenic	50	5	229	581	610	381	54	55.3	71.8	194
Barium	2000	31.4	11.9	36	51.6	8.4	7.7	8.1	7.4	37.3
Cadmium	5	5.6		0.23		0.44	0.42	0.39		
Calcium	*	36830	56300	81600	89600	59000	17800	18200	30800	116000
Chromium	100	7.8	3.6	2.4	4.5	4.1	10.1	10.7	4.9	
Cobalt	4-20	*			1.3					
Copper	1000	5.4	5.2	6.7	2.9	11.1	30.8	29.2	4.6	
Iron	300	1227		332	201		590	583	185	
Lead	15	4		3.2			35.7	34.1		
Magnesium	*	4560	4510	5550	8120	6740	1510	1550	2030	4600
Manganese	50	17	21.8	27.2	55.4	39.2	25.2	25.5	11.7	
Nickel	100	*			27.4					
Potassium	*	5400	12600	11000	20900	19500	3100	3240	3270	11100
Silver	100	*					1.7	1.8		
Sodium	160000	18222	3560	8220	5970	4370	1220	1290	1200	4830
Vanadium	49	20.6	2.3	1	1.2	3.1	4.3	4.2	3.7	0.62
Zinc	5000	4		131	561	310				

TABLE 3

POSITIVE DETECTIONS IN GROUNDWATER - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-10	OLD-08-11	OLD-08-13	OLD-08-14	OLD-08-15	OLD-08-17	OLD-08-18
Sample ID	Florida GCTL[b]	NTC BGSV[c]	NTC08G1012	NTC08G1112	NTC08G1312	NTC08G1412	NTC08G1512	NTC08G1712	NTC08G1812
Lab ID			A9J220158006	A9J210106006	A9J220158005	A9J210231004	A9J210231006	A9J210106001	A9J210231005
Sample Date			10/21/99	10/19/99	10/21/99	10/20/99	10/20/99	10/19/99	10/20/99
Semivolatiles (µg/L)			NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	0.5								
Naphthalene	20								
Pesticides (µg/L)			NA	NA	NA	NA	NA	NA	NA
alpha-BHC	0.006								
alpha-Chlordane[d]	2								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Herbicides (µg/L)					NA			NA	
Dicamba	210			1.3 J					
MCPA	3.5								
MCPP	7								180 J
Pentachlorophenol	1			NA		NA	NA		NA
Inorganics (µg/L)									
Aluminum	200	4067		404	447	2230	4010		835
Antimony	6	4.1				11.2	4.9	4.6	
Arsenic	50	5	276	114	30.7	224	14.7	156	
Barium	2000	31.4	9.7	3.8	16.6	20.7	7.3	29.8	35.6
Cadmium	5	5.6				0.96			
Calcium	*	36830	53500	34100	14000	30500	7510	99300	5240
Chromium	100	7.8		3.6		6.7	2.1	2.3	3
Cobalt	4-20	*			0.96	2.2			
Copper	1000	5.4				56.5	6.7	2.4	2.8
Iron	300	1227	120		2150	10500	652	257	3360
Lead	15	4				151	28.6	13.4	1.6
Magnesium	*	4560	4740	2740	3140	6670	3250	3820	1880
Manganese	50	17	29.3		75.1	119		59.1	185
Nickel	100	*				85			
Potassium	*	5400	2680	6990	669	4070	3860	6640	801
Silver	100	*				2.4			
Sodium	160000	18222	2750	5570	7200	31200	40900	2730	8770
Vanadium	49	20.6			0.72	7	3	4.1	4.6
Zinc	5000	4				341			

TABLE 3

POSITIVE DETECTIONS IN GROUNDWATER - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-01		OLD-09-02	OLD-09-03		OLD-09-04	OLD-09-05	OLD-09-06
Sample ID	Florida	NTC	NTC09G0112	NTC09G0112-D	NTC09G0212	NTC09G0312	NTC09G0312-D	NTC09G0412	NTC09G0512	NTC09G0612
Lab ID			A9J220158002	A9J220158003	A9J230148006	A9J210231001	A9J210231002	A9J220158004	A9J230148001	A9J230148003
Sample Date	GCTL[b]	BGSV[c]	10/21/99	10/21/99	10/22/99	10/20/99	10/20/99	10/21/99	10/22/99	10/22/99
Semivolatiles (µg/L)			NA	NA	NA				NA	NA
2,4-Dichlorophenol	0.5									
Naphthalene	20									
Pesticides (µg/L)										
alpha-BHC	0.006									
alpha-Chlordane[d]	2									
gamma-BHC (Lindane)	0.2									
gamma-Chlordane[d]	2		0.034 J							
Herbicides (µg/L)										
Dicamba	210							0.4 J		
MCPA	3.5									120 J
MCPP	7							520		
Pentachlorophenol	1					NA	NA	0.06 J		
Inorganics (µg/L)										
Aluminum	200	4067			1510	455	472	253		
Antimony	6	4.1								
Arsenic	50	5	30	30.8				650	101	34.1
Barium	2000	31.4	55.4	55	2.7	2.2	2.9	9.5	28.1	27.2
Cadmium	5	5.6								
Calcium	*	36830	94400	93700	5540	11000	11300	30800	105000	72300
Chromium	100	7.8			2.7					
Cobalt	4-20	*					0.82			
Copper	1000	5.4						3.2		
Iron	300	1227	285	283	121	131	139	1940	157	797
Lead	15	4			1.8					
Magnesium	*	4560	6550	6530	1230	2300	2370	1980	6580	2620
Manganese	50	17	18.1	19.4				35.3	33.6	56.3
Nickel	100	*								
Potassium	*	5400	5200	5140	3580	3650	3770	5550	4610	8440
Silver	100	*								
Sodium	160000	18222	1520	1520	4200	2360	2530	678	2710	4140
Vanadium	49	20.6	0.58		1.5		0.7		0.59	0.92
Zinc	5000	4								

TABLE 3

POSITIVE DETECTIONS IN GROUNDWATER - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-07	OLD-09-10	OLD-09-11	OLD-09-12	OLD-09-14	OLD-09-15	OLD-09-16	OLD-09-17	OLD-09-19
Sample ID			NTC09G0712	NTC09G1012	NTC09G1112	NTC09G1212	NTC09G1412	NTC09G1512	NTC09G1612	NTC09G1712	NTC09G1912
Lab ID	Florida	NTC	A9J260203001	A9J220158001	A9J210231003	A9J230148005	A9J230148004	A9J230148002	A9J220158009	A9J260203002	A9J300126002
Sample Date	GCTL[b]	BGSV[c]	10/23/99	10/21/99	10/20/99	10/22/99	10/22/99	10/22/99	10/21/99	10/23/99	10/27/99
Semivolatiles (µg/L)			NA	NA	NA				NA	NA	
2,4-Dichlorophenol	0.5					4.9 J					
Naphthalene	20						4.8 J	8 J			
Pesticides (µg/L)											NA
alpha-BHC	0.006					0.39					
alpha-Chlordane[d]	2				0.062 J						
gamma-BHC (Lindane)	0.2				0.057 J	0.46					
gamma-Chlordane[d]	2										
Herbicides (µg/L)											
Dicamba	210										
MCPA	3.5			37 J					33 J		
MCPP	7									74 J	
Pentachlorophenol	1				NA						
Inorganics (µg/L)											
Aluminum	200	4067	547			103	509	421	309		402
Antimony	6	4.1									
Arsenic	50	5	2.3		44.9	53.8				5.4	
Barium	2000	31.4	6.4	24.8	10.5	22.4	25.2	5.3	12.6	19.4	18.1 J
Cadmium	5	5.6									
Calcium	*	36830	8760	81800	70800	81100	37600		4500	74000	29300
Chromium	100	7.8					4.6				1.4
Cobalt	4-20	*				0.83					
Copper	1000	5.4	4.1			1.7				1.8	
Iron	300	1227	470	630	833	477	786	312	572		645
Lead	15	4	1.4		1.9						
Magnesium	*	4560	790	4640	3190	3990	4000	602	990	821	3210
Manganese	50	17		18.4	25.7	134	120		30		37.9
Nickel	100	*									1.7
Potassium	*	5400	895	3420	10200	5980	2340		693	554	1600
Silver	100	*									
Sodium	160000	18222	1450	3380	6440	1370	16600	5650	8620		7080
Vanadium	49	20.6	1.7	0.83	0.99	1.8	3.1	0.53	3.2	4.8	5.1
Zinc	5000	4	33 J	83.1							

TABLE 3

POSITIVE DETECTIONS IN GROUNDWATER – OCTOBER 1999
OPERABLE UNIT 3 – STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Notes:

* indicates that the screening value is not available.
"J" qualifier indicates an estimated value.
NA Not analyzed.
Values in shaded cells are equal to or exceed the screening criteria.
Empty cells indicate non-detects.
(a) For an organic analyte, the screening criterion is the GCTL; for an inorganic analyte with an established GCTL and BGSV, the screening criterion is the greater of the GCTL or the BGSV.
(b) Groundwater Cleanup Target Level (Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., May 26, 1999).
(c) Background Screening Value (Background Sampling Report for NTC, Orlando, Florida; ABB Environmental Services, August 1995).
(d) Screening Criteria Substitution – Chlordane for alpha-Chlordane and gamma-Chlordane, and Endosulfan for Endosulfan II.

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-01				
Sample ID			08G00102	NTC08G00110	NTC08G00110-D	NTC08G00111	NTC08G0112
Lab ID	Florida	NTC	873054	F3846-7	F3846-11	A9G29018006	A9J210106004
Sample Date	GCTL[b]	BGSV[c]	10/22/97	3/13/99	3/13/99	7/28/99	10/19/99
Semivolatiles/PAHs (µg/L)				NA	NA	NA	NA
1-Methylnaphthalene	20		NA				
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						
2-Methylphenol	35						
4-Methylphenol	4						
Naphthalene	20		25				
Phenol	10						
Pesticides/PCBs (µg/L)				NA	NA	NA	NA
4,4'-DDD	0.1						
4,4'-DDE	0.1						
4,4'-DDT	0.1		0.0056 J				
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2						
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42						
Endosulfan Sulfate	*						
Endrin	2		0.01 J				
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2						
gamma-Chlordane[d]	2						
Toxaphene	3						
Herbicides (µg/L)						NA	NA
2,4 5-TP (Silvex)	50						
2,4-D	70		0.095 J				
2,4-DB	56		0.046 J				
Dalapon	200						
Dicamba	210						
Dichloroprop	35						
Dinoseb	7						
MCPA	3.5						
MCPP	7		790 J				
Pentachlorophenol	1						
Inorganics (µg/L)							
Aluminum	200	4067		199	235	192 J	156
Antimony	6	4.1	3.7 J				7.4
Arsenic	50	5	133	138 J	126 J	163	229
Barium	2000	31.4	19 J				11.9
Cadmium	5	5.6					
Calcium	*	36830	101000	35500	34500	55000 J	56300
Chromium	100	7.8	2.6 J	13.7	10.7		3.6
Cobalt	420	*					
Copper	1000	5.4					5.2
Iron	300	1227	1460			155	
Lead	15	4					
Magnesium	*	4560		2810	2920	3980	4510
Manganese	50	17	12.6 J		5.8	4.8	21.8
Mercury	2	0.12					
Nickel	100	*	1.7 J	6.2	6.9		
Potassium	*	5400	16000	6200	5780	6390	12600
Selenium	50	9.7					
Silver	100	*					
Sodium	160000	18222		3500	3620	6050	3560
Vanadium	49	20.6	0.86 J	13.6	11.8		2.3
Zinc	5000	4				129	
General Chemistry (mg/L)				NA	NA	NA	NA
Total Organic Carbon			27.4				
Total Suspended Solids			5				

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-02			
Sample ID			08G00202	NTC08G00210	NTC08G00211	NTC08G0212
Lab ID	Florida	NTC	873055	F3841-4	A9G2901198009	A9J210106003
Sample Date	GCTL[b]	BGSV[c]	10/22/97	3/11/99	7/28/99	10/19/99
Semivolatiles/PAHs (µg/L)				NA	NA	NA
1-Methylnaphthalene	20		NA			
2,4,6-Trichlorophenol	3.2					
2,4-Dichlorophenol	0.5					
2,4-Dimethylphenol	140					
2-Methylnaphthalene	20					
2-Methylphenol	35					
4-Methylphenol	4					
Naphthalene	20					
Phenol	10					
Pesticides/PCBs (µg/L)				NA	NA	NA
4,4'-DDD	0.1					
4,4'-DDE	0.1					
4,4'-DDT	0.1					
Aldrin	0.005					
alpha-BHC	0.2					
alpha-Chlordane[d]	2					
delta-BHC	2.1					
Dieldrin	0.005					
Endosulfan	42					
Endosulfan II[b]	42					
Endosulfan Sulfate	*		0.012 J			
Endrin	2					
Endrin Aldehyde	*					
gamma-BHC (Lindane)	0.2					
gamma-Chlordane[d]	2					
Toxaphene	3					
Herbicides (µg/L)					NA	NA
2,4 5-TP (Silvex)	50					
2,4-D	70		0.0051 J			
2,4-DB	56		0.09 J			
Dalapon	200					
Dicamba	210					
Dichloroprop	35					
Dinoseb	7					
MCPA	3.5					
MCPP	7					
Pentachlorophenol	1					
Inorganics (µg/L)						
Aluminum	200	4067		207	918 J	515
Antimony	6	4.1				6
Arsenic	50	5	295	294	609	561
Barium	2000	31.4	25.1 J	21.5 J	24.5	36
Cadmium	5	5.6				0.23
Calcium	*	36830	104000	62100	74200 J	81600
Chromium	100	7.8	1.4 J			2.4
Cobalt	420	*				
Copper	1000	5.4		2.1		6.7
Iron	300	1227		250	148	332
Lead	15	4				3.2
Magnesium	*	4560		3710	4360	5550
Manganese	50	17	6.7 J	13.1	13.3	27.2
Mercury	2	0.12				
Nickel	100	*	1.4 J	1.4		
Potassium	*	5400	10800	6710	10100	11000
Selenium	50	9.7				
Silver	100	*				
Sodium	160000	18222		6470	5850	8220
Vanadium	49	20.6		0.50		1
Zinc	5000	4		47.1 J		131
General Chemistry (mg/L)				NA	NA	NA
Total Organic Carbon			28.8			
Total Suspended Solids						

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-03			
Sample ID			08G00302	NTC08G00310	NTC08G00311	NTC08G0312
Lab ID	Florida	NTC	873056	F3841-6	A9G290198008	A9J210106007
Sample Date	GCTL[b]	BGSV[c]	10/22/97	3/11/99	7/28/99	10/19/99
Semivolatiles/PAHs (µg/L)				NA	NA	NA
1-Methylnaphthalene	20		NA			
2,4,6-Trichlorophenol	3.2					
2,4-Dichlorophenol	0.5					
2,4-Dimethylphenol	140					
2-Methylnaphthalene	20					
2-Methylphenol	35					
4-Methylphenol	4					
Naphthalene	20					
Phenol	10					
Pesticides/PCBs (µg/L)				NA	NA	NA
4,4'-DDD	0.1					
4,4'-DDE	0.1					
4,4'-DDT	0.1					
Aldrin	0.005					
alpha-BHC	0.2					
alpha-Chlordane[d]	2					
delta-BHC	2.1					
Dieldrin	0.005					
Endosulfan	42					
Endosulfan II[d]	42					
Endosulfan Sulfate	*					
Endrin	2					
Endrin Aldehyde	*					
gamma-BHC (Lindane)	0.2					
gamma-Chlordane[d]	2					
Toxaphene	3					
Herbicides (µg/L)					NA	NA
2,4 5-TP (Silvex)	50					
2,4-D	70					
2,4-DB	56		0.6 J			
Dalapon	200					
Dicamba	210					
Dichloroprop	35					
Dinoseb	7					
MCPA	3.5		640 J			
MCPP	7					
Pentachlorophenol	1					
Inorganics (µg/L)						
Aluminum	200	4067		168	4300 J	721
Antimony	6	4.1				13.8
Arsenic	50	5	79.9	260	234	610
Barium	2000	31.4	14.7 J	20.9 J	38.3	51.6
Cadmium	5	5.6				
Calcium	*	36830	37500	28600	67600 J	89600
Chromium	100	7.8	1.7 J		5.2	4.5
Cobalt	420	*				1.3
Copper	1000	5.4	1.5 J	3.3	15.7	2.9
Iron	300	1227	231	1260	750	201
Lead	15	4			2.8	
Magnesium	*	4560		2440	3450	8120
Manganese	50	17	15.3	19.6	12.2	55.4
Mercury	2	0.12				
Nickel	100	*	1.6 J	10.0	15	27.4
Potassium	*	5400	9130	6400	9610	20900
Selenium	50	9.7				
Silver	100	*				
Sodium	160000	18222		4290	5790	5970
Vanadium	49	20.6		0.77		1.2
Zinc	5000	4		180 J	254	561
General Chemistry (mg/L)				NA	NA	NA
Total Organic Carbon			30.6			
Total Suspended Solids						

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-04				
Sample ID			08G00402	NTC08G00410	NTC08G00410-D	NTC08G00411	NTC08G0412
Lab ID	Florida	NTC	873064	F3841-5	F3841-7	A9G290198007	A9J210106005
Sample Date	GCTL[b]	BGSV[c]	10/22/97	3/11/99	3/11/99	7/28/99	10/19/99
Semivolatiles/PAHs (µg/L)				NA	NA	NA	NA
1-Methylnaphthalene	20		NA				
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						
2-Methylphenol	35						
4-Methylphenol	4						
Naphthalene	20						
Phenol	10						
Pesticides/PCBs (µg/L)				NA	NA	NA	NA
4,4'-DDD	0.1						
4,4'-DDE	0.1						
4,4'-DDT	0.1						
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2						
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42						
Endosulfan Sulfate	*						
Endrin	2						
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2						
gamma-Chlordane[d]	2						
Toxaphene	3						
Herbicides (µg/L)						NA	NA
2,4 5-TP (Silvex)	50						
2,4-D	70		0.023 J				
2,4-DB	56		0.18 J				
Dalapon	200						
Dicamba	210						
Dichloroprop	35						
Dinoseb	7						
MCPA	3.5						
MCPP	7						
Pentachlorophenol	1						
Inorganics (µg/L)							
Aluminum	200	4067		240	304	918 J	261
Antimony	6	4.1					3.6
Arsenic	50	5	70.4	102	106	99.2	381
Barium	2000	31.4					8.4
Cadmium	5	5.6					0.44
Calcium	*	36830	28900	21700	22900	26600 J	59000
Chromium	100	7.8	1.5 J				4.1
Cobalt	420	*					
Copper	1000	5.4	1.3 J	5.0	37.6	8.5	11.1
Iron	300	1227			222		
Lead	15	4					
Magnesium	*	4560		2230	2420	2220	6740
Manganese	50	17	16.4	19.8	18.1	10.3	39.2
Mercury	2	0.12					
Nickel	100	*	3 J	6.8	7.5	9.5	
Potassium	*	5400	9940	6430	6750	5380	19500
Selenium	50	9.7					
Silver	100	*					
Sodium	160000	18222		4580	5070	6630	4370
Vanadium	49	20.6		2.1	2.4		3.1
Zinc	5000	4		295 J	337 J	627	310
General Chemistry (mg/L)				NA	NA	NA	NA
Total Organic Carbon			27				
Total Suspended Solids							

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-05					
Sample ID			08G00501	08G00501D	NTC08G00510	NTC08G00511	NTC08G0512	NTC08G0512-D
Lab ID	Florida	NTC	873270	873272	F3832-1	A9G300236003	A9J220158007	A9J220158008
Sample Date	GCTL[b]	BGSV[c]	10/23/97	10/23/97	3/10/99	7/29/99	10/21/99	10/21/99
Semivolatiles/PAHs (µg/L)					NA	NA	NA	NA
1-Methylnaphthalene	20		NA	NA				
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Naphthalene	20							
Phenol	10							
Pesticides/PCBs (µg/L)					NA	NA	NA	NA
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1							
Dieldrin	0.005							
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2							
Toxaphene	3							
Herbicides (µg/L)						NA	NA	NA
2,4 5-TP (Silvex)	50							
2,4-D	70							
2,4-DB	56		1.4 J					
Dalapon	200							
Dicamba	210							
Dichloroprop	35							
Dinoseb	7		0.098 J					
MCPA	3.5							
MCPP	7							
Pentachlorophenol	1							
Inorganics (µg/L)								
Aluminum	200	4067			126	4310 J	289	276
Antimony	6	4.1						
Arsenic	50	5	57.7	57.3	58.9	284	54	55.3
Barium	2000	31.4	11.8 J	11.3 J	17.8	77.8	7.7	8.1
Cadmium	5	5.6					0.42	0.39
Calcium	*	36830	33200	33100	19800	101000 J	17800	18200
Chromium	100	7.8	1.8 J	2.3 J	10.5	6.8	10.1	10.7
Cobalt	420	*						
Copper	1000	5.4	1.2 J	0.96 J	2.3	9.3	30.8	29.2
Iron	300	1227					590	583
Lead	15	4				3.7	35.7	34.1
Magnesium	*	4560			2640	8500	1510	1550
Manganese	50	17	160	162	146 J	338	25.2	25.5
Mercury	2	0.12						
Nickel	100	*			1.4			
Potassium	*	5400	11200	11200	5910 J	12900	3100	3240
Selenium	50	9.7						
Silver	100	*					1.7	1.8
Sodium	160000	18222			3850	8540	1220	1290
Vanadium	49	20.6			0.43		4.3	4.2
Zinc	5000	4			40.9 J	74.1		
General Chemistry (mg/L)				NA	NA	NA	NA	NA
Total Organic Carbon			31.2					
Total Suspended Solids								

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-06				OLD-08-07	
Sample ID			08G00601	NTC08G00610	NTC08G00611	NTC08G0612	08G00701	NTC08G00710
Lab ID	Florida	NTC	873268	F3841-1	A9G300236004	A9J210106008	873267	F3849-1
Sample Date	GCTL[b]	BGSV[c]	10/23/97	3/11/99	7/29/99	10/19/99	10/23/97	3/15/99
Semivolatiles/PAHs (µg/L)				NA	NA	NA		NA
1-Methylnaphthalene	20		NA				NA	
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Naphthalene	20							
Phenol	10							
Pesticides/PCBs (µg/L)				NA	NA	NA		NA
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1							
Dieldrin	0.005							
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2							
Toxaphene	3							
Herbicides (µg/L)					NA	NA		
2,4 5-TP (Silvex)	50							
2,4-D	70		0.22 J					
2,4-DB	56		0.57 J					
Dalapon	200							
Dicamba	210							
Dichloroprop	35							
Dinoseb	7		0.28 J					
MCPA	3.5							
MCPP	7							
Pentachlorophenol	1							
Inorganics (µg/L)								
Aluminum	200	4067		150	744 J	94.6		
Antimony	6	4.1						
Arsenic	50	5	53	68.5	138	71.8	56.4	47.9
Barium	2000	31.4	12.3 J	27.8 J	38.3	7.4	8 J	
Cadmium	5	5.6						
Calcium	*	36830	28100	21000	67800 J	30800	45300	26800 J
Chromium	100	7.8	3.4 J	22.0		4.9	1.1 J	
Cobalt	420	*						
Copper	1000	5.4	6.7 J	13.3	13.3	4.6	3.3 J	8.6
Iron	300	1227	198	33300		185	529	
Lead	15	4	6.6	13.2	9.8			
Magnesium	*	4560		2610	5720	2030		2750 J
Manganese	50	17	24.2	110	69.6	11.7	11 J	
Mercury	2	0.12						
Nickel	100	*		16.8				
Potassium	*	5400	11700	5450	13200	3270	11000	3140 J
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222		4690	3630	1200		3930
Vanadium	49	20.6	2 J	0.53		3.7	1.8 J	
Zinc	5000	4		38.2 J	177			
General Chemistry (mg/L)				NA	NA	NA		NA
Total Organic Carbon			33.7				22.9	
Total Suspended Solids								

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-08				
Sample ID			08G00801	08G00801D	NTC08G00810	NTC08G00811	NTC08G0812
Lab ID	Florida	NTC	873069	873074	F3841-3	A9H030166007	A9J210106002
Sample Date	GCTL[b]	BGSV[c]	10/22/97	10/22/97	3/11/99	8/1/99	10/19/99
Semivolatiles/PAHs (µg/L)					NA	NA	NA
1-Methylnaphthalene	20		NA	NA			
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						
2-Methylphenol	35						
4-Methylphenol	4						
Naphthalene	20						
Phenol	10						
Pesticides/PCBs (µg/L)					NA	NA	NA
4,4'-DDD	0.1						
4,4'-DDE	0.1						
4,4'-DDT	0.1						
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2						
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42						
Endosulfan Sulfate	*						
Endrin	2						
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2						
gamma-Chlordane[d]	2						
Toxaphene	3						
Herbicides (µg/L)							
2,4 5-TP (Silvex)	50						
2,4-D	70		0.12 J	0.11 J			
2,4-DB	56		0.16 J	0.11 J			
Dalapon	200						
Dicamba	210						
Dichloroprop	35		0.69 J	0.66 J			
Dinoseb	7						
MCPA	3.5						
MCPP	7			710 J		99 J	
Pentachlorophenol	1					NA	NA
Inorganics (µg/L)							
Aluminum	200	4067					
Antimony	6	4.1					10.1
Arsenic	50	5	122	120	175	154	194
Barium	2000	31.4	26.6 J	26.1 J	10.4 J	18.9	37.3
Cadmium	5	5.6					
Calcium	*	36830	131000	134000	58800	71400	116000
Chromium	100	7.8					
Cobalt	420	*					
Copper	1000	5.4	1.5 J	1.4 J	7.1		
Iron	300	1227				370	
Lead	15	4					
Magnesium	*	4560			2620	2550	4600
Manganese	50	17	6.3 J	6.4 J	3.4		
Mercury	2	0.12					
Nickel	100	*			2.5		
Potassium	*	5400	8670	8900	8780	7600	11100
Selenium	50	9.7					
Silver	100	*					
Sodium	160000	18222			5310	3840	4830
Vanadium	49	20.6			0.96		0.62
Zinc	5000	4			42.1 J		
General Chemistry (mg/L)				NA	NA	NA	NA
Total Organic Carbon			20.7				
Total Suspended Solids							

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-09		OLD-08-10			
Sample ID			08F00901	08G00901	08G01001	NTC08G01010	NTC08G01011	NTC08G1012
Lab ID	Florida	NTC	873053	873070	873269	F3846-3	A9H020124009	A9J220158006
Sample Date	GCTL[b]	BGSV[c]	10/22/97	10/22/97	10/23/97	3/12/99	7/30/99	10/21/99
Semivolatiles/PAHs (µg/L)			NA			NA	NA	NA
1-Methylnaphthalene	20			NA	NA			
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Naphthalene	20							
Phenol	10							
Pesticides/PCBs (µg/L)			NA			NA	NA	NA
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1							
Dieldrin	0.005							
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2							
Toxaphene	3							
Herbicides (µg/L)			NA					
2,4 5-TP (Silvex)	50							
2,4-D	70			0.076 J				
2,4-DB	56			0.061 J				
Dalapon	200						2J	
Dicamba	210							
Dichloroprop	35							
Dinoseb	7							
MCPA	3.5							
MCPP	7				900 J			
Pentachlorophenol	1							
Inorganics (µg/L)								NA
Aluminum	200	4067	252	372	614	409		
Antimony	6	4.1						
Arsenic	50	5	96.4	117	209	122 J	189	276
Barium	2000	31.4	4.9 J		15 J		8.8	9.7
Cadmium	5	5.6						
Calcium	*	36830	43300	45600	7230	17100	42800	53500
Chromium	100	7.8	1.3 J				16.5	
Cobalt	420	*						
Copper	1000	5.4		1.2 J	6.5 J		1.7	
Iron	300	1227	410	455	825	1400		120
Lead	15	4						
Magnesium	*	4560				1970	3870	4740
Manganese	50	17	18.9	18.5	54.4	56.8		29.3
Mercury	2	0.12						
Nickel	100	*	1.7 J					
Potassium	*	5400	4720 J	4980 J		822	3620	2680
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222				5910	9180	2750
Vanadium	49	20.6	2.3 J	2.3 J	2.8 J		3.1	
Zinc	5000	4					13.6	
General Chemistry (mg/L)			NA			NA	NA	NA
Total Organic Carbon				31.5	21.1			
Total Suspended Solids								

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-11				OLD-08-12	
Sample ID			08G01101	NTC08G01110	NTC08G01111	NTC08G1112	08F01201	08G01201
Lab ID	Florida	NTC	873271	F3846-2	A9H020124010	A9J210106006	873265	873266
Sample Date	GCTL[b]	BGSV[c]	10/23/97	3/12/99	7/30/99	10/19/99	10/23/97	10/23/97
Semivolatiles/PAHs (µg/L)				NA	NA	NA	NA	
1-Methylnaphthalene	20		NA					NA
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Naphthalene	20							
Phenol	10							
Pesticides/PCBs (µg/L)				NA	NA	NA	NA	
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1							
Dieldrin	0.005		0.019 J					
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2							
Toxaphene	3							
Herbicides (µg/L)							NA	
2,4 5-TP (Silvex)	50							
2,4-D	70		0.048 J					0.082 J
2,4-DB	56							
Dalapon	200					1.3 J		
Dicamba	210							
Dichloroprop	35							
Dinoseb	7							
MCPA	3.5							
MCPP	7		660 J		110 J			
Pentachlorophenol	1					NA		
Inorganics (µg/L)								
Aluminum	200	4067		171		404	412	1450
Antimony	6	4.1						
Arsenic	50	5	223	315 J	170	114		
Barium	2000	31.4		63.4 J		3.8	18.2 J	38.5 J
Cadmium	5	5.6						
Calcium	*	36830	89800	60000	64700	34100		
Chromium	100	7.8				3.6		0.83 J
Cobalt	420	*						
Copper	1000	5.4	0.9 J				0.95 J	1.5 J
Iron	300	1227					4080	5800
Lead	15	4						
Magnesium	*	4560		4740	4300	2740		
Manganese	50	17	5.3 J	6.4			51	71.8
Mercury	2	0.12						
Nickel	100	*						
Potassium	*	5400	11600	5130	10600	6990		
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222		7330	9370	5570		
Vanadium	49	20.6					2.6 J	4.2 J
Zinc	5000	4						
General Chemistry (mg/L)				NA	NA	NA	NA	
Total Organic Carbon			20.9					8.47
Total Suspended Solids								8

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-13					
Sample ID			08F01301	08G01301	NTC08G01310	NTC08G01311	NTC08G01311-D	NTC08G1312
Lab ID	Florida	NTC	876944	876943	F3849-3	A9H030166001	A9H030166002	A9J220158005
Sample Date	GCTL[b]	BGSV[c]	12/5/97	12/5/97	3/15/99	7/31/99	7/31/99	10/21/99
Semivolatiles/PAHs (µg/L)			NA		NA	NA	NA	NA
1-Methylnaphthalene	20			NA				
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Naphthalene	20							
Phenol	10							
Pesticides/PCBs (µg/L)			NA		NA	NA	NA	NA
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1			0.0051 J				
Dieldrin	0.005							
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2							
Toxaphene	3							
Herbicides (µg/L)			NA			NA	NA	NA
2,4 5-TP (Silvex)	50							
2,4-D	70			0.16 J				
2,4-DB	56			0.31 J				
Dalapon	200							
Dicamba	210							
Dichloroprop	35			0.4 J				
Dinoseb	7							
MCPA	3.5			660 J				
MCPP	7							
Pentachlorophenol	1							
Inorganics (µg/L)								
Aluminum	200	4067	529	1870	527	823	729	447
Antimony	6	4.1						
Arsenic	50	5	71.1	65.2	19.0	24.3	22.6	30.7
Barium	2000	31.4	25.6 J	42.1 J	76.4 J	17.9	17.7	16.6
Cadmium	5	5.6						
Calcium	*	36830	11400	12900	9170 J	12100	11500	14000
Chromium	100	7.8						
Cobalt	420	*	1.5 J	1.9 J		0.98		0.96
Copper	1000	5.4	4.5 J	5.5 J	23.1	1.9	1.4	
Iron	300	1227	293	447	2470 J	1660	1650	2150
Lead	15	4		3.2	6.5			
Magnesium	*	4560			1770 J	2320	2230	3140
Manganese	50	17	94.1	148	124 J	68.1	68.7	75.1
Mercury	2	0.12						
Nickel	100	*	7.3 J	9.6 J				
Potassium	*	5400			848 J	277	284	669
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222			8490	7980	7720	7200
Vanadium	49	20.6	1.2 J	2 J		1.4	0.92	0.72
Zinc	5000	4						
General Chemistry (mg/L)			NA		NA	NA	NA	NA
Total Organic Carbon				22.1				
Total Suspended Solids				22				

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-14			
Sample ID			08G01401	NTC08G01410	NTC08G01411	NTC08G1412
Lab ID	Florida	NTC	878090	F3849-2	A9H030166003	A9J210231004
Sample Date	GCTL[b]	BGSV[c]	12/8/97	3/15/99	7/31/99	10/20/99
Semivolatiles/PAHs (µg/L)				NA	NA	NA
1-Methylnaphthalene	20		NA			
2,4,6-Trichlorophenol	3.2					
2,4-Dichlorophenol	0.5					
2,4-Dimethylphenol	140					
2-Methylnaphthalene	20					
2-Methylphenol	35					
4-Methylphenol	4					
Naphthalene	20					
Phenol	10					
Pesticides/PCBs (µg/L)				NA	NA	NA
4,4'-DDD	0.1					
4,4'-DDE	0.1					
4,4'-DDT	0.1					
Aldrin	0.005					
alpha-BHC	0.2					
alpha-Chlordane[d]	2					
delta-BHC	2.1					
Dieldrin	0.005					
Endosulfan	42					
Endosulfan II[d]	42					
Endosulfan Sulfate	*					
Endrin	2					
Endrin Aldehyde	*		0.0066 J			
gamma-BHC (Lindane)	0.2					
gamma-Chlordane[d]	2					
Toxaphene	3					
Herbicides (µg/L)						
2,4 5-TP (Silvex)	50					
2,4-D	70					
2,4-DB	56					
Dalapon	200		1.4 J		7.5 J	
Dicamba	210					
Dichloroprop	35		0.14 J			
Dinoseb	7					
MCPA	3.5					
MCPP	7		200 J		190 J	
Pentachlorophenol	1				NA	NA
Inorganics (µg/L)						
Aluminum	200	4067	1380 J	1800	1340	2230
Antimony	6	4.1				11.2
Arsenic	50	5	7.1 J	9.5	100	224
Barium	2000	31.4	39.2 J	99.5 J	53.3	20.7
Cadmium	5	5.6				0.96
Calcium	*	36830	34200	12200 J	65600	30500
Chromium	100	7.8				6.7
Cobalt	420	*	2.3 J		2.2	2.2
Copper	1000	5.4	9.5 J	17.5	4.3	56.5
Iron	300	1227	1730 J	7340 J	5190	10500
Lead	15	4	3.1	21.1	34.8	151
Magnesium	*	4560		3190 J	20000	6670
Manganese	50	17	172	132 J	304	119
Mercury	2	0.12				
Nickel	100	*	5.8 J			85
Potassium	*	5400		1240 J	1050	4070
Selenium	50	9.7				
Silver	100	*				2.4
Sodium	160000	18222		15600	41200	31200
Vanadium	49	20.6	2.5 J		4.7	7
Zinc	5000	4			439	341
General Chemistry (mg/L)				NA	NA	NA
Total Organic Carbon			46.8			
Total Suspended Solids			20			

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-15					OLD-08-16
Sample ID			08G01501	NTC08G01510	NTC08G01511	NTC08G01511-D	NTC08G1512	08G01601
Lab ID	Florida	NTC	876942	F3846-1	A9H030166005	A9H030166006	A9J210231006	882951
Sample Date	GCTL[b]	BGSV[c]	12/5/97	3/13/99	8/1/99	8/1/99	10/20/99	2/18/98
Semivolatiles/PAHs (µg/L)				NA	NA	NA	NA	NA
1-Methylnaphthalene	20		NA					
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Naphthalene	20							
Phenol	10							
Pesticides/PCBs (µg/L)				NA	NA	NA	NA	NA
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1		0.0077 J					
Dieldrin	0.005							
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2							
Toxaphene	3							
Herbicides (µg/L)								NA
2,4 5-TP (Silvex)	50							
2,4-D	70		0.16 J					
2,4-DB	56		0.29 J					
Dalapon	200				36 J			
Dicamba	210							
Dichloroprop	35							
Dinoseb	7							
MCPA	3.5		1200 DJ					
MCPP	7					280 J		
Pentachlorophenol	1				NA	NA	NA	
Inorganics (µg/L)								
Aluminum	200	4067	1420	811	2430	2360	4010	454
Antimony	6	4.1					4.9	
Arsenic	50	5			3.6	2.5	14.7	3.9 J
Barium	2000	31.4	21.6 J		15.4	13.9	7.3	27.7 J
Cadmium	5	5.6						
Calcium	*	36830	18100	5440	8880	8590	7510	
Chromium	100	7.8					2.1	
Cobalt	420	*	1.2 J					1.9 J
Copper	1000	5.4	8.3 J		2.6	1.5	6.7	
Iron	300	1227	498	1960	853	806	652	580
Lead	15	4	2.3 J				28.5	
Magnesium	*	4560		2810	4040	4000	3250	
Manganese	50	17	72.9	83.9	32.6	30.1		164
Mercury	2	0.12						
Nickel	100	*	5.9 J					11.4 J
Potassium	*	5400		806	2010	1890	3860	
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222	28900	13200	30600	28500	40900	
Vanadium	49	20.6	3 J		2.5	2.9	3	3.5 J
Zinc	5000	4			11.7			
General Chemistry (mg/L)				NA	NA	NA	NA	
Total Organic Carbon			27.2					25.2
Total Suspended Solids			13					

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-08-17				OLD-08-18		
Sample ID			08G01701	NTC08G01710	NTC08G01711	NTC08G1712	08G01801	NTC08G01811	NTC08G1812
Lab ID	Florida	NTC	882943	F3841-2	A9H020124011	A9J210106001	882980	A9H030166004	A9J210231005
Sample Date	GCTL[b]	BGSV[c]	2/18/98	3/11/99	7/30/99	10/19/99	2/19/98	7/31/99	10/20/99
Semivolatiles/PAHs (µg/L)			NA	NA	NA	NA	NA	NA	NA
1-Methylnaphthalene	20								
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Naphthalene	20								
Phenol	10								
Pesticides/PCBs (µg/L)			NA	NA	NA	NA	NA	NA	NA
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)			NA		NA	NA	NA	NA	
2,4 5-TP (Silvex)	50								
2,4-D	70								
2,4-DB	56								
Dalapon	200								
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								180 J
MCPA	3.5								
MCPP	7								
Pentachlorophenol	1								NA
Inorganics (µg/L)									
Aluminum	200	4067	88.3 J	88.1			87.3 J	1780	835
Antimony	6	4.1			12.2	4.6	2.9 J		
Arsenic	50	5	98.8	167	191	156			
Barium	2000	31.4	20 J		18.7	29.8	12.1 J	42.8	35.6
Cadmium	5	5.6							
Calcium	*	36830		38300	53500	99300		5910	5240
Chromium	100	7.8				2.3			3
Cobalt	420	*						0.95	
Copper	1000	5.4		5.5	3	2.4		2.5	2.8
Iron	300	1227				257	550	3550	3360
Lead	15	4				13.4			1.6
Magnesium	*	4560		2220	2180	3820		1730	1880
Manganese	50	17		10.1		59.1		204	185
Mercury	2	0.12							
Nickel	100	*	4.4 J	8.0			3 J		
Potassium	*	5400	10900	7580	12100	6640		741	801
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222		6340	4770	2730		9730	8770
Vanadium	49	20.6	4.4 J		10.3	4.1	2.4 J	6.2	4.6
Zinc	5000	4		30.2 J					
General Chemistry (mg/L)				NA	NA	NA		NA	NA
Total Organic Carbon			19.9				23.5		
Total Suspended Solids									

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-01				
Sample ID			09G00102	NTC09G00110	NTC09G00111	NTC09G0112	NTC09G0112-D
Lab ID	Florida	NTC	872936	F3846-8	A9H050202002	A9J220158002	A9J220158003
Sample Date	GCTL[b]	BGSV[c]	10/20/97	3/13/99	8/4/99	10/21/99	10/21/99
Semivolatiles/PAHs (µg/L)					NA	NA	NA
1-Methylnaphthalene	20		NA	NA			
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						
2-Methylphenol	35						
4-Methylphenol	4						
Naphthalene	20						
Phenol	10						
Pesticides/PCBs (µg/L)				(e)	(e)		
4,4'-DDD	0.1						
4,4'-DDE	0.1		0.1 J				
4,4'-DDT	0.1						
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2						
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42						
Endosulfan Sulfate	*						
Endrin	2						
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2						
gamma-Chlordane[d]	2				0.067 J	0.034 J	
Toxaphene	3				2.1 J		
Herbicides (µg/L)							
2,4 5-TP (Silvex)	50						
2,4-D	70		0.0018 J				
2,4-DB	56		0.42 J				
Dalapon	200						
Dicamba	210						
Dichloroprop	35						
Dinoseb	7						
MCPA	3.5		640				
MCPP	7						
Pentachlorophenol	1				NA		
Inorganics (µg/L)							
Aluminum	200	4067	318	102			
Antimony	6	4.1					
Arsenic	50	5	13.2	31.8 J	34.9	30	30.8
Barium	2000	31.4	24.5 J		53.5	55.4	55
Cadmium	5	5.6					
Calcium	*	36830	24600	119000	79900	94400	93700
Chromium	100	7.8	0.81 J	15.3			
Cobalt	420	*					
Copper	1000	5.4			0.85		
Iron	300	1227	391		289	285	283
Lead	15	4					
Magnesium	*	4560		10200	6640	6550	6530
Manganese	50	17	6.7 J	16.1		18.1	19.4
Mercury	2	0.12					
Nickel	100	*	2.5 J	7.9			
Potassium	*	5400		12200	8180 J	5200	5140
Selenium	50	9.7					
Silver	100	*					
Sodium	160000	18222		2000	2350	1520	1520
Vanadium	49	20.6				0.58	
Zinc	5000	4					
General Chemistry (mg/L)				NA	NA	NA	NA
Total Organic Carbon			37.2				
Total Suspended Solids							

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-02				
Sample ID			09G00202	09G00202D	NTC09G00210	NTC09G00211	NTC09G0212
Lab ID	Florida	NTC	872937	872939	F3846-9	A9H040126009	A9J230148006
Sample Date	GCTL[b]	BGSV[c]	10/20/97	10/20/97	3/13/99	8/3/99	10/22/99
Semivolatiles/PAHs (µg/L)						NA	NA
1-Methylnaphthalene	20		NA	NA	NA		
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140			2 J			
2-Methylnaphthalene	20						
2-Methylphenol	35			1 J			
4-Methylphenol	4			3 J			
Naphthalene	20						
Phenol	10			2 J			
Pesticides/PCBs (µg/L)					(e)	(e)	
4,4'-DDD	0.1						
4,4'-DDE	0.1						
4,4'-DDT	0.1						
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2						
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42					0.047 J	
Endosulfan Sulfate	*						
Endrin	2						
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2						
gamma-Chlordane[d]	2						
Toxaphene	3						
Herbicides (µg/L)							
2,4 5-TP (Silvex)	50						
2,4-D	70						
2,4-DB	56		0.44 J	0.33 J			
Dalapon	200						
Dicamba	210						
Dichloroprop	35			3.1 J			
Dinoseb	7						
MCPA	3.5		870 J	670 J			
MCPP	7		840 J				
Pentachlorophenol	1					NA	
Inorganics (µg/L)							
Aluminum	200	4067	731	781	1810	2140 J	1510
Antimony	6	4.1					
Arsenic	50	5					
Barium	2000	31.4	1.8 J	2.4 J			2.7
Cadmium	5	5.6					
Calcium	*	36830	5830	6350	7500	10100	5540
Chromium	100	7.8	1.3 J	1.1 J			2.7
Cobalt	420	*					
Copper	1000	5.4				3.8	
Iron	300	1227					121
Lead	15	4					1.8
Magnesium	*	4560			1630	2240	1230
Manganese	50	17					
Mercury	2	0.12					
Nickel	100	*				1.6	
Potassium	*	5400			2970	2500 J	3580
Selenium	50	9.7			3.5		
Silver	100	*	1.1 J				
Sodium	160000	18222			2500	5690	4200
Vanadium	49	20.6	0.73 J	0.73 J			1.5
Zinc	5000	4				43.6	
General Chemistry (mg/L)				NA	NA	NA	NA
Total Organic Carbon			34.5				
Total Suspended Solids							

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-03			
Sample ID			09G00302	NTC09G00311	NTC09G0312	NTC09G0312-D
Lab ID	Florida	NTC	872938	A9H050202001	A9J210231001	A9J210231002
Sample Date	GCTL[b]	BGSV[c]	10/20/97	8/4/99	10/20/99	10/20/99
Semivolatiles/PAHs (µg/L)						
1-Methylnaphthalene	20		NA		NA	NA
2,4,6-Trichlorophenol	3.2					
2,4-Dichlorophenol	0.5					
2,4-Dimethylphenol	140					
2-Methylnaphthalene	20					
2-Methylphenol	35					
4-Methylphenol	4					
Naphthalene	20		1 J			
Phenol	10					
Pesticides/PCBs (µg/L)				(e)		
4,4'-DDD	0.1					
4,4'-DDE	0.1					
4,4'-DDT	0.1		0.0039 J			
Aldrin	0.005					
alpha-BHC	0.2					
alpha-Chlordane[d]	2					
delta-BHC	2.1					
Dieldrin	0.005					
Endosulfan	42					
Endosulfan II[d]	42					
Endosulfan Sulfate	*					
Endrin	2					
Endrin Aldehyde	*					
gamma-BHC (Lindane)	0.2					
gamma-Chlordane[d]	2					
Toxaphene	3					
Herbicides (µg/L)						
2,4 5-TP (Silvex)	50					
2,4-D	70		0.0035 J			
2,4-DB	56		0.17 J			
Dalapon	200					
Dicamba	210					
Dichloroprop	35					
Dinoseb	7					
MCPA	3.5					
MCPP	7					
Pentachlorophenol	1				NA	NA
Inorganics (µg/L)						
Aluminum	200	4067	471	452 J	455	472
Antimony	6	4.1				
Arsenic	50	5				
Barium	2000	31.4	4 J		2.2	2.9
Cadmium	5	5.6				
Calcium	*	36830	10600	11200	11000	11300
Chromium	100	7.8	0.88 J			
Cobalt	420	*				0.82
Copper	1000	5.4		0.96		
Iron	300	1227			131	139
Lead	15	4				
Magnesium	*	4560		2230	2300	2370
Manganese	50	17				
Mercury	2	0.12				
Nickel	100	*				
Potassium	*	5400		3420 J	3650	3770
Selenium	50	9.7				
Silver	100	*				
Sodium	160000	18222		2710	2360	2530
Vanadium	49	20.6				0.7
Zinc	5000	4				
General Chemistry (mg/L)				NA	NA	NA
Total Organic Carbon			47.5			
Total Suspended Solids						

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-04				
Sample ID			09F00402	09G00402	NTC09G00410	NTC09G00411	NTC09G0412
Lab ID	Florida	NTC	872971	872975	F3846-10	A9H050202003	A9J220158004
Sample Date	GCTL[b]	BGSV[c]	10/21/97	2/12/98	3/13/99	8/4/99	10/21/99
Semivolatiles/PAHs (µg/L)			NA				
1-Methylnaphthalene	20			NA	NA	3.9 J	NA
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5			2 J			
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20			14 J		2 J	
2-Methylphenol	35						
4-Methylphenol	4						
Naphthalene	20			6 J	3.3 J	0.96 J	
Phenol	10						
Pesticides/PCBs (µg/L)			NA		(e)	(e)	
4,4'-DDD	0.1			0.088 J			
4,4'-DDE	0.1						
4,4'-DDT	0.1						
Aldrin	0.005			0.051 J			
alpha-BHC	0.2						
alpha-Chlordane[d]	2				0.34 J		
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42			0.094 J			
Endosulfan II[d]	42						
Endosulfan Sulfate	*						
Endrin	2						
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2			0.011 J			
gamma-Chlordane[d]	2			0.67	0.43 J		
Toxaphene	3						
Herbicides (µg/L)			NA				
2,4 5-TP (Silvex)	50						
2,4-D	70			0.099 J			
2,4-DB	56			1.8 J			
Dalapon	200					9.9 J	
Dicamba	210						0.4 J
Dichloroprop	35						
Dinoseb	7			0.098 J			
MCPA	3.5			3100 J			
MCPP	7			1900 J		170 J	520
Pentachlorophenol	1						0.06 J
Inorganics (µg/L)							
Aluminum	200	4067	373	448	176		253
Antimony	6	4.1	3.5 J				
Arsenic	50	5	232	264	186 J	1370	650
Barium	2000	31.4	8.6 J	8.6 J		17.8	9.5
Cadmium	5	5.6					
Calcium	*	36830	48000	43800	41600	52100	30800
Chromium	100	7.8	1.7 J	1.6 J			
Cobalt	420	*	0.75 J				
Copper	1000	5.4	42.7	56		4.2	3.2
Iron	300	1227	1380	1290	861	6350	1940
Lead	15	4	4.2	6.1			
Magnesium	*	4560			2020	3000	1980
Manganese	50	17	62.7	53.7	63.1	79.9	35.3
Mercury	2	0.12	0.12 J	0.11 J			
Nickel	100	*	2 J	2.2 J			
Potassium	*	5400			6680	7490 J	5550
Selenium	50	9.7					
Silver	100	*					
Sodium	160000	18222			1700	1440	678
Vanadium	49	20.6	1.5 J	0.99 J			
Zinc	5000	4					
General Chemistry (mg/L)			NA		NA	NA	NA
Total Organic Carbon				54.6			
Total Suspended Solids							

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-05				
Sample ID			09G00501	NTC09G00510	NTC09G00510-D	NTC09G00511	NTC09G0512
Lab ID	Florida	NTC	872976	F3849-6	F3849-7	A9H040126007	A9J230148001
Sample Date	GCTL[b]	BGSV[c]	10/21/97	3/15/99	3/15/99	8/3/99	10/22/99
Semivolatiles/PAHs (µg/L)						NA	NA
1-Methylnaphthalene	20		NA	NA	NA		
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						
2-Methylphenol	35						
4-Methylphenol	4						
Naphthalene	20						
Phenol	10						
Pesticides/PCBs (µg/L)				(e)	(e)	(e)	
4,4'-DDD	0.1		0.029 J				
4,4'-DDE	0.1		0.0081 J				
4,4'-DDT	0.1						
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2		0.11 J				
delta-BHC	2.1		0.021 J				
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42						
Endosulfan Sulfate	*						
Endrin	2		0.022 J				
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2		0.0076 J				
gamma-Chlordane[d]	2		0.17				
Toxaphene	3						
Herbicides (µg/L)							
2,4 5-TP (Silvex)	50						
2,4-D	70		0.11 J				
2,4-DB	56		0.83 J				
Dalapon	200						
Dicamba	210						
Dichloroprop	35						
Dinoseb	7						
MCPA	3.5		2900 J				
MCPP	7		830 J				
Pentachlorophenol	1					NA	
Inorganics (µg/L)							
Aluminum	200	4067	224				
Antimony	6	4.1				3.1	
Arsenic	50	5	61.3	152	153	475	101
Barium	2000	31.4	7.6 J			8.8	28.1
Cadmium	5	5.6					
Calcium	*	36830	53400	62500 J	64300 J	94500	105000
Chromium	100	7.8	1.4 J				
Cobalt	420	*					
Copper	1000	5.4					
Iron	300	1227	188	962 J	966 J		157
Lead	15	4		1.6	2.1		
Magnesium	*	4560		5080 J	5210 J	5870	6580
Manganese	50	17	11.3 J	27.4 J	27.8 J	12	33.6
Mercury	2	0.12					
Nickel	100	*					
Potassium	*	5400		12100 J	12000 J	8570 J	4610
Selenium	50	9.7					
Silver	100	*					
Sodium	160000	18222		3630	3910	3620	2710
Vanadium	49	20.6	3.4 J				0.59
Zinc	5000	4				55.2	
General Chemistry (mg/L)				NA	NA	NA	NA
Total Organic Carbon			33.1				
Total Suspended Solids							

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-06				
Sample ID			09F00601	09G00601	NTC09G00610	NTC09G00611	NTC09G0612
Lab ID	Florida	NTC	872655	872659	F3854-1	A9H040126003	A9J230148003
Sample Date	GCTL[b]	BGSV[c]	10/17/97	10/17/97	3/16/99	8/3/99	10/22/99
Semivolatiles/PAHs (µg/L)			NA			NA	NA
1-Methylnaphthalene	20			NA	NA		
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						
2-Methylphenol	35						
4-Methylphenol	4						
Naphthalene	20						
Phenol	10						
Pesticides/PCBs (µg/L)			NA		(e)	(e)	
4,4'-DDD	0.1						
4,4'-DDE	0.1						
4,4'-DDT	0.1			0.0067 J			
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2						
delta-BHC	2.1						
Dieldrin	0.005			0.012 J			
Endosulfan	42						
Endosulfan II[d]	42			0.0093 J			
Endosulfan Sulfate	*						
Endrin	2			0.019 J			
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2						
gamma-Chlordane[d]	2			0.03 J			
Toxaphene	3						
Herbicides (µg/L)			NA				
2,4 5-TP (Silvex)	50						
2,4-D	70			0.9 J			
2,4-DB	56						
Dalapon	200						
Dicamba	210						
Dichloroprop	35						120 J
Dinoseb	7						
MCPA	3.5						
MCPP	7						
Pentachlorophenol	1					NA	
Inorganics (µg/L)							
Aluminum	200	4067		538	797		
Antimony	6	4.1	5.1 J				
Arsenic	50	5	51.5	53	54.6	191	94.1
Barium	2000	31.4	13.7 J	9.5 J		11	27.2
Cadmium	5	5.6					
Calcium	*	36830	53400	55000	21000 J	62600	72300
Chromium	100	7.8	0.85 J	1 J			
Cobalt	420	*	1.5 J				
Copper	1000	5.4	6.3 J				
Iron	300	1227	740	638	1120 J	465	797
Lead	15	4					
Magnesium	*	4560			2360 J	3090	2620
Manganese	50	17	39	32.9	39.6 J	35.4	56.3
Mercury	2	0.12					
Nickel	100	*	2.7 J				
Potassium	*	5400			2820	3010 J	8440
Selenium	50	9.7					
Silver	100	*	0.95 J				
Sodium	160000	18222			2740	2340	4140
Vanadium	49	20.6	1.7 J	0.86 J			0.92
Zinc	5000	4					
General Chemistry (mg/L)			NA		NA	NA	NA
Total Organic Carbon				24.3			
Total Suspended Solids				20			

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-07					OLD-09-08	OLD-09-09
Sample ID			09F00701	09G00701	NTC09G00710	NTC09G00711	NTC09G0712	09G00801	09G00901
Lab ID	Florida	NTC	872972	872977	F3854-4	A9H040126001	A9J260203001	873307	873310
Sample Date	GCTL[b]	BGSV[c]	10/21/97	10/21/97	3/16/99	8/3/99	10/23/99	10/24/97	10/24/97
Semivolatiles/PAHs (µg/L)			NA			NA	NA		
1-Methylnaphthalene	20			NA	NA			NA	NA
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Naphthalene	20								
Phenol	10								
Pesticides/PCBs (µg/L)			NA		(e)	(e)			
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)			NA						
2,4 5-TP (Silvex)	50								
2,4-D	70			0.0047 J				0.21 J	0.24 J
2,4-DB	56			0.18 J					
Dalapon	200								
Dicamba	210					0.87 J			
Dichloroprop	35							0.59 J	0.37 J
Dinoseb	7								0.099 J
MCPA	3.5								
MCPP	7			1100 J		910 J			
Pentachlorophenol	1					NA			
Inorganics (µg/L)									
Aluminum	200	4067	1600	2040	1500	1180 J	547	290	243
Antimony	6	4.1							3.5 J
Arsenic	50	5				5.3	2.3		
Barium	2000	31.4	11.5 J	13.8 J			6.4	12.5 J	
Cadmium	5	5.6							
Calcium	*	36830			10200 J	10200	8760	17900	31100
Chromium	100	7.8	2.6 J	3.7 J		8.6			
Cobalt	420	*		1.1 J					1 J
Copper	1000	5.4				5.1	4.1	0.76 J	2.6 J
Iron	300	1227	1640	1870	1840 J		470	1000	200
Lead	15	4					1.4		
Magnesium	*	4560			1760 J	1110	790		
Manganese	50	17	38.4	48.9	19.7 J			53.6	3 J
Mercury	2	0.12							
Nickel	100	*	4.9 J	5.4 J		5.8			
Potassium	*	5400			2360	588 J	895		
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222			3950	6340	1450		
Vanadium	49	20.6	0.8 J	1.3 J			1.7	0.91 J	1.8 J
Zinc	5000	4				70.4	33 J		
General Chemistry (mg/L)			NA		NA	NA	NA		
Total Organic Carbon				41.1				47.8	62.3
Total Suspended Solids									

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-10			
Sample ID			09G01001	NTC09G01010	NTC09G01011	NTC09G1012
Lab ID	Florida	NTC	872978	F3849-5	A9H040126008	A9J220158001
Sample Date	GCTL[b]	BGSV[c]	10/21/97	3/15/99	8/3/99	10/21/99
Semivolatiles/PAHs (µg/L)					NA	NA
1-Methylnaphthalene	20		NA	NA		
2,4,6-Trichlorophenol	3.2					
2,4-Dichlorophenol	0.5					
2,4-Dimethylphenol	140					
2-Methylnaphthalene	20					
2-Methylphenol	35					
4-Methylphenol	4					
Naphthalene	20					
Phenol	10					
Pesticides/PCBs (µg/L)				(e)	(e)	
4,4'-DDD	0.1					
4,4'-DDE	0.1					
4,4'-DDT	0.1					
Aldrin	0.005					
alpha-BHC	0.2					
alpha-Chlordane[d]	2					
delta-BHC	2.1					
Dieldrin	0.005					
Endosulfan	42					
Endosulfan II[d]	42					
Endosulfan Sulfate	*					
Endrin	2					
Endrin Aldehyde	*					
gamma-BHC (Lindane)	0.2					
gamma-Chlordane[d]	2					
Toxaphene	3					
Herbicides (µg/L)						
2,4 5-TP (Silvex)	50					
2,4-D	70					
2,4-DB	56		0.14 J			
Dalapon	200					
Dicamba	210					
Dichloroprop	35					
Dinoseb	7					
MCPA	3.5					37 J
MCPP	7					
Pentachlorophenol	1				NA	
Inorganics (µg/L)						
Aluminum	200	4067	212	502		
Antimony	6	4.1				
Arsenic	50	5				
Barium	2000	31.4	5.4 J			24.8
Cadmium	5	5.6				
Calcium	*	36830	33700	23900 J	44700	81800
Chromium	100	7.8	0.91 J			
Cobalt	420	*				
Copper	1000	5.4				
Iron	300	1227	1030	959 J	570	630
Lead	15	4				
Magnesium	*	4560		2690 J	2960	4640
Manganese	50	17	16.7	18.5 J	17.4	18.4
Mercury	2	0.12				
Nickel	100	*				
Potassium	*	5400		3000 J	2100 J	3420
Selenium	50	9.7				
Silver	100	*				
Sodium	160000	18222		2880	4020	3380
Vanadium	49	20.6				0.83
Zinc	5000	4			43.8	83.1
General Chemistry (mg/L)				NA	NA	NA
Total Organic Carbon			28			
Total Suspended Solids						

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-11				
Sample ID			09G01101	NTC09G01110	NTC09G01111	NTC09G01111-D	NTC09G1112
Lab ID	Florida	NTC	872979	F3854-5	A9H040126004	A9H040126005	A9J210231003
Sample Date	GCTL[b]	BGSV[c]	10/21/97	3/16/99	8/3/99	8/3/99	10/20/99
Semivolatiles/PAHs (µg/L)					NA	NA	NA
1-Methylnaphthalene	20		NA	NA			
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						
2-Methylphenol	35						
4-Methylphenol	4						
Naphthalene	20						
Phenol	10						
Pesticides/PCBs (µg/L)				(e)	(e)	(e)	
4,4'-DDD	0.1						
4,4'-DDE	0.1		0.0051 J				
4,4'-DDT	0.1		0.0092 J				
Aldrin	0.005						
alpha-BHC	0.2		0.0042 J				
alpha-Chlordane[d]	2					0.3 J	0.062 J
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42						
Endosulfan Sulfate	*						
Endrin	2						
Endrin Aldehyde	*		0.078 J				
gamma-BHC (Lindane)	0.2		0.034 J	0.40	0.18 J	0.19 J	0.057 J
gamma-Chlordane[d]	2					0.21 J	
Toxaphene	3						
Herbicides (µg/L)							
2,4 5-TP (Silvex)	50						
2,4-D	70		1.4 J				
2,4-DB	56		1 J				
Dalapon	200						
Dicamba	210						
Dichloroprop	35						
Dinoseb	7						
MCPA	3.5						
MCPP	7		1200 J				
Pentachlorophenol	1				NA	NA	NA
Inorganics (µg/L)							
Aluminum	200	4067	539				
Antimony	6	4.1			2.7	4	
Arsenic	50	5	93.9	71.5	160	160	44.9
Barium	2000	31.4	6.8 J		18.1	18	10.5
Cadmium	5	5.6					
Calcium	*	36830	36900	32100 J	55000	54700	70800
Chromium	100	7.8	1 J	43.6	11.4		
Cobalt	420	*					
Copper	1000	5.4					
Iron	300	1227	570	1520 J	1490	1420	833
Lead	15	4					1.9
Magnesium	*	4560		2100 J	2740	2720	3190
Manganese	50	17	11.6 J	121 J	22.3	21.5	25.7
Mercury	2	0.12					
Nickel	100	*		24.2	9.2		
Potassium	*	5400		6230	9220 J	9320 J	10200
Selenium	50	9.7					
Silver	100	*					
Sodium	160000	18222		2940	1240	1320	6440
Vanadium	49	20.6					0.99
Zinc	5000	4					
General Chemistry (mg/L)				NA	NA	NA	NA
Total Organic Carbon			36				
Total Suspended Solids			28				

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-12					
Sample ID			09G01201	NTC09G01210	NTC09G01210-D	NTC09G01211	NTC09G01211-D	NTC09G1212
Lab ID	Florida	NTC	872980	F3854-6	F3854-7	A9H030173002	A9H030173004	A9J230148005
Sample Date	GCTL[b]	BGSV[c]	10/21/97	3/16/99	3/16/99	8/2/99	8/2/99	10/22/99
Semivolatiles/PAHs (µg/L)								
1-Methylnaphthalene	20		NA	NA	NA			NA
2,4,6-Trichlorophenol	3.2		2 J					
2,4-Dichlorophenol	0.5		200	13.2	13.3	45	30	4.9 J
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Naphthalene	20		8 J	4.3 J	3.7 J	2.4	2.4	
Phenol	10							
Pesticides/PCBs (µg/L)				(e)	(e)	(e)	(e)	
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2		1 J	2.1	2.3	2.5 J		0.39
alpha-Chlordane[d]	2		0.028 J					
delta-BHC	2.1		0.3					
Dieldrin	0.005							
Endosulfan	42		0.046 J					
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2		0.69	3.0	3.2	1.9 J	1.7 J	0.46
gamma-Chlordane[d]	2		0.013 J					
Toxaphene	3							
Herbicides (µg/L)				NA				
2,4 5-TP (Silvex)	50					1.6 J	1.5 J	
2,4-D	70		110 J			33 J	31 J	
2,4-DB	56							
Dalapon	200						21 J	
Dicamba	210							
Dichloroprop	35							
Dinoseb	7							
MCPA	3.5		750 J					
MCPP	7		1500 J			190 J	220 J	
Pentachlorophenol	1							
Inorganics (µg/L)								
Aluminum	200	4067	1030	1830	1340	1040 J	1710 J	103
Antimony	6	4.1						
Arsenic	50	5	138	135	136	141	147	53.8
Barium	2000	31.4	10.3 J			9.1	13.1	22.4
Cadmium	5	5.6						
Calcium	*	36830	11700	15700 J	15700 J	15900	16500	81100
Chromium	100	7.8	3.3 J					
Cobalt	420	*						0.83
Copper	1000	5.4	6.1 J				3.5	1.7
Iron	300	1227	540	1390 J	786 J	629	762	477
Lead	15	4	1.9 J					
Magnesium	*	4560		2340 J	2340 J	2220	2280	3990
Manganese	50	17	24.9	19.0 J	20.9 J	8.3	10.2	134
Mercury	2	0.12						
Nickel	100	*	3.4 J					
Potassium	*	5400		11100	11400	13200 J	13200 J	5980
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222		2560	2510	2320	5850	1370
Vanadium	49	20.6	0.79 J					1.8
Zinc	5000	4				75.5	92	
General Chemistry (mg/L)				NA	NA	NA	NA	NA
Total Organic Carbon			38.5					
Total Suspended Solids								

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-13		OLD-09-14				
Sample ID			09G01301	NTC09G01310	09G01401	09G01401D	NTC09G01410	NTC09G01411	NTC09G1412
Lab ID	Florida	NTC	872981	F3854-3	876803	876821	F3849-4	A9H030173001	A9J230148004
Sample Date	GCTL[b]	BGSV[c]	10/21/97	3/16/99	12/4/97	12/4/97	3/15/99	8/1/99	10/22/99
Semivolatiles/PAHs (µg/L)									
1-Methylnaphthalene	20		NA	NA			NA		NA
2,4,6-Trichlorophenol	3.2								
2,4-Dichlorophenol	0.5								
2,4-Dimethylphenol	140								
2-Methylnaphthalene	20								
2-Methylphenol	35								
4-Methylphenol	4								
Naphthalene	20		2 J		190 D		67.5	2.1	4.8 J
Phenol	10								
Pesticides/PCBs (µg/L)				(e)			(e)	(e)	
4,4'-DDD	0.1								
4,4'-DDE	0.1								
4,4'-DDT	0.1								
Aldrin	0.005								
alpha-BHC	0.2								
alpha-Chlordane[d]	2								
delta-BHC	2.1								
Dieldrin	0.005								
Endosulfan	42								
Endosulfan II[d]	42								
Endosulfan Sulfate	*								
Endrin	2								
Endrin Aldehyde	*								
gamma-BHC (Lindane)	0.2								
gamma-Chlordane[d]	2								
Toxaphene	3								
Herbicides (µg/L)									
2,4 5-TP (Silvex)	50								
2,4-D	70		0.0012 J		0.26 J				
2,4-DB	56		0.38 J		0.21 J				
Dalapon	200								
Dicamba	210								
Dichloroprop	35								
Dinoseb	7								
MCPA	3.5				890 J	840 J			
MCPP	7								
Pentachlorophenol	1								
Inorganics (µg/L)									
Aluminum	200	4067	353	536	315	294	448		509
Antimony	6	4.1							
Arsenic	50	5							
Barium	2000	31.4	19.7 J		47.2 J	38 J		18.1	25.2
Cadmium	5	5.6							
Calcium	*	36830			105000	80800	12900 J	45800	37600
Chromium	100	7.8	1.3 J						4.6
Cobalt	420	*	0.88 J		1.7 J	2.1 J			
Copper	1000	5.4			4.5 J	5.6 J			
Iron	300	1227	2400	741 J	430	451			786
Lead	15	4					1.6		
Magnesium	*	4560		882 J	9780	7410	1230 J	4620	4000
Manganese	50	17	82.9	29.4 J	159	145	27.6 J		120
Mercury	2	0.12							
Nickel	100	*	3.5 J		9.9 J	9.4 J		5	
Potassium	*	5400						574 J	2340
Selenium	50	9.7							
Silver	100	*							
Sodium	160000	18222		7400			5050	32200	16600
Vanadium	49	20.6	1.3 J		1.6 J	1.6 J			3.1
Zinc	5000	4							
General Chemistry (mg/L)				NA		NA	NA	NA	NA
Total Organic Carbon			10.1		21.2				
Total Suspended Solids					7				

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-15				
Sample ID			09F01501	09G01501	NTC09G01510	NTC09G01511	NTC09G1512
Lab ID	Florida	NTC	876945	876940	F3846-5	A9H030173003	A9J230148002
Sample Date	GCTL[b]	BGSV[c]	12/5/97	12/5/97	3/13/99	8/2/99	10/22/99
Semivolatiles/PAHs (µg/L)			NA				
1-Methylnaphthalene	20				NA		NA
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						
2-Methylphenol	35						
4-Methylphenol	4						
Naphthalene	20			5 J	11.2	6.7 J	8 J
Phenol	10						
Pesticides/PCBs (µg/L)			NA		(e)	(e)	
4,4'-DDD	0.1						
4,4'-DDE	0.1						
4,4'-DDT	0.1						
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2						
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42			0.0075 J			
Endosulfan Sulfate	*						
Endrin	2						
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2						
gamma-Chlordane[d]	2						
Toxaphene	3						
Herbicides (µg/L)			NA				
2,4 5-TP (Silvex)	50						
2,4-D	70			0.068 J			
2,4-DB	56			0.18 J			
Dalapon	200						
Dicamba	210						
Dichloroprop	35			0.42 J			
Dinoseb	7						
MCPA	3.5						
MCPP	7						
Pentachlorophenol	1						
Inorganics (µg/L)							
Aluminum	200	4067	872	3260	470		421
Antimony	6	4.1					
Arsenic	50	5					
Barium	2000	31.4	13.3 J	18.3 J			5.3
Cadmium	5	5.6					
Calcium	*	36830	8060	9800			
Chromium	100	7.8					
Cobalt	420	*	0.63 J	0.8 J			
Copper	1000	5.4	4.4 J	7.2 J			
Iron	300	1227	284	374			312
Lead	15	4		2.8 J			
Magnesium	*	4560			807		602
Manganese	50	17	46.4	55.7	9.7		
Mercury	2	0.12					
Nickel	100	*	5.6 J	7.5 J			
Potassium	*	5400					
Selenium	50	9.7					
Silver	100	*					
Sodium	160000	18222	7890		6970	5320	5650
Vanadium	49	20.6	0.93 J	1.9 J			0.53
Zinc	5000	4					
General Chemistry (mg/L)			NA		NA	NA	NA
Total Organic Carbon				25.3			
Total Suspended Solids				58			

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-16				
Sample ID			09F01601	09G01601	NTC09G01610	NTC09G01611	NTC09G1612
Lab ID	Florida	NTC	876946	876941	F3846-6	A9H040126006	A9J220158009
Sample Date	GCTL[b]	BGSV[c]	12/5/97	12/5/97	3/13/99	8/3/99	10/21/99
Semivolatiles/PAHs (µg/L)			NA			NA	NA
1-Methylnaphthalene	20			NA	NA		
2,4,6-Trichlorophenol	3.2						
2,4-Dichlorophenol	0.5						
2,4-Dimethylphenol	140						
2-Methylnaphthalene	20						
2-Methylphenol	35						
4-Methylphenol	4						
Naphthalene	20						
Phenol	10						
Pesticides/PCBs (µg/L)			NA		(e)	(e)	
4,4'-DDD	0.1						
4,4'-DDE	0.1						
4,4'-DDT	0.1						
Aldrin	0.005						
alpha-BHC	0.2						
alpha-Chlordane[d]	2						
delta-BHC	2.1						
Dieldrin	0.005						
Endosulfan	42						
Endosulfan II[d]	42						
Endosulfan Sulfate	*						
Endrin	2						
Endrin Aldehyde	*						
gamma-BHC (Lindane)	0.2						
gamma-Chlordane[d]	2						
Toxaphene	3						
Herbicides (µg/L)			NA				
2,4 5-TP (Silvex)	50						
2,4-D	70						
2,4-DB	56			0.31 J			
Dalapon	200						
Dicamba	210						
Dichloroprop	35			0.36 J			
Dinoseb	7			0.12 J			
MCPA	3.5			920 J			33 J
MCPP	7			0.36 J			
Pentachlorophenol	1					NA	
Inorganics (µg/L)							
Aluminum	200	4067	405	1840	443	1670 J	309
Antimony	6	4.1					
Arsenic	50	5	2.4 J	2.2 J			
Barium	2000	31.4	10.5 J	17.8 J		22.3	12.6
Cadmium	5	5.6					
Calcium	*	36830	13100	15000	5740	8250	4500
Chromium	100	7.6					
Cobalt	420	*	0.75 J	0.55 J			
Copper	1000	5.4	4 J	5.1 J		2.6	
Iron	300	1227		249	1320	637	572
Lead	15	4					
Magnesium	*	4560			750	1220	990
Manganese	50	17	44.5	70.8	69.0	41.5	30
Mercury	2	0.12					
Nickel	100	*	3 J	5.1 J		2.8	
Potassium	*	5400			584	586 J	693
Selenium	50	9.7					
Silver	100	*					
Sodium	160000	18222			9040	12000	8620
Vanadium	49	20.6	3.1 J	5.1 J			3.2
Zinc	5000	4				41.5	
General Chemistry (mg/L)			NA		NA	NA	NA
Total Organic Carbon				22			
Total Suspended Solids				4			

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-17			OLD-09-18		
Sample ID			09G01701	NTC09G01711	NTC09G1712	09G01801	09G01801D	NTC09G01810
Lab ID	Florida	NTC	882644	A9H040126002	A9J260203002	882638	882641	F3854-2
Sample Date	GCTL[b]	BGSV[c]	2/12/98	8/3/99	10/23/99	2/12/98	2/12/98	3/16/99
Semivolatiles/PAHs (µg/L)			NA	NA	NA	NA	NA	
1-Methylnaphthalene	20							NA
2,4,6-Trichlorophenol	3.2							
2,4-Dichlorophenol	0.5							
2,4-Dimethylphenol	140							
2-Methylnaphthalene	20							
2-Methylphenol	35							
4-Methylphenol	4							
Naphthalene	20							
Phenol	10							
Pesticides/PCBs (µg/L)			NA	(e)		NA	NA	(e)
4,4'-DDD	0.1							
4,4'-DDE	0.1							
4,4'-DDT	0.1							
Aldrin	0.005							
alpha-BHC	0.2							
alpha-Chlordane[d]	2							
delta-BHC	2.1							
Dieldrin	0.005							
Endosulfan	42							
Endosulfan II[d]	42							
Endosulfan Sulfate	*							
Endrin	2							
Endrin Aldehyde	*							
gamma-BHC (Lindane)	0.2							
gamma-Chlordane[d]	2							
Toxaphene	3							
Herbicides (µg/L)								
2,4 5-TP (Silvex)	50							
2,4-D	70		0.32 J					
2,4-DB	56		0.55 J					
Dalapon	200		0.69 J			0.3 J		
Dicamba	210							
Dichloroprop	35		0.29 J			0.24 J	0.12 J	
Dinoseb	7							
MCPA	3.5		680 J			630 J	460 J	
MCPP	7				74 J			
Pentachlorophenol	1							
Inorganics (µg/L)								
Aluminum	200	4067	349			567	667	2180
Antimony	6	4.1						
Arsenic	50	5	4.3 J	8.3	5.4			
Barium	2000	31.4			19.4	20.8 J	23.4 J	
Cadmium	5	5.6						
Calcium	*	36830		42500	74000			
Chromium	100	7.8				1.5 J	1.9 J	
Cobalt	420	*						
Copper	1000	5.4		1.3	1.8			
Iron	300	1227	53.6 J			4680	5490	753 J
Lead	15	4						
Magnesium	*	4560			821			997 J
Manganese	50	17						
Mercury	2	0.12						
Nickel	100	*	1.4 J	1.7				
Potassium	*	5400		2950 J	554			
Selenium	50	9.7						
Silver	100	*						
Sodium	160000	18222		1300				7670
Vanadium	49	20.6	4.3 J	8.9	4.8	1.6 J	1.6 J	
Zinc	5000	4						
General Chemistry (mg/L)			NA	NA	NA			NA
Total Organic Carbon						7.05	5.94	
Total Suspended Solids								

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Well Designation	Screening Criteria[a]		OLD-09-19	
Sample ID			NTC09G01911	NTC09G1912
Lab ID	Florida	NTC	A9H050202004	A9J300126002
Sample Date	GCTL[b]	BGSV[c]	8/4/99	10/27/99
Semivolatiles/PAHs (µg/L)				
1-Methylnaphthalene	20			NA
2,4,6-Trichlorophenol	3.2			
2,4-Dichlorophenol	0.5			
2,4-Dimethylphenol	140			
2-Methylnaphthalene	20			
2-Methylphenol	35			
4-Methylphenol	4			
Naphthalene	20			
Phenol	10			
Pesticides/PCBs (µg/L)			(e)	NA
4,4'-DDD	0.1			
4,4'-DDE	0.1			
4,4'-DDT	0.1			
Aldrin	0.005			
alpha-BHC	0.2			
alpha-Chlordane[d]	2			
delta-BHC	2.1			
Dieldrin	0.005			
Endosulfan	42			
Endosulfan II[d]	42			
Endosulfan Sulfate	*			
Endrin	2			
Endrin Aldehyde	*			
gamma-BHC (Lindane)	0.2			
gamma-Chlordane[d]	2			
Toxaphene	3			
Herbicides (µg/L)				
2,4 5-TP (Silvex)	50			
2,4-D	70			
2,4-DB	56			
Dalapon	200			
Dicamba	210			
Dichloroprop	35			
Dinoseb	7			
MCPA	3.5			
MCPP	7			
Pentachlorophenol	1			
Inorganics (µg/L)				
Aluminum	200	4067	7740 J	402
Antimony	6	4.1	17.7	
Arsenic	50	5		
Barium	2000	31.4	51.5	18.1 J
Cadmium	5	5.6		
Calcium	*	36830	51600	29300
Chromium	100	7.8	3.4	1.4
Cobalt	420	*		
Copper	1000	5.4	6.6	
Iron	300	1227	1290	645
Lead	15	4		
Magnesium	*	4560	1660	3210
Manganese	50	17		37.9
Mercury	2	0.12		
Nickel	100	*		1.7
Potassium	*	5400		1600
Selenium	50	9.7		
Silver	100	*		
Sodium	160000	18222	8260	7080
Vanadium	49	20.6		5.1
Zinc	5000	4		
General Chemistry (mg/L)			NA	NA
Total Organic Carbon				
Total Suspended Solids				

TABLE 4

HISTORICAL DETECTIONS IN GROUNDWATER
OPERABLE UNIT 3 – STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Notes:

* Indicates that the screening value is not available.
"D" qualifier indicates the reported value is from a dilution.
"J" qualifier indicates an estimated value.
Empty cells indicate non-detects.
NA Not analyzed.
Only chemicals detected in at least one sample are shown.
Values in shaded cells are equal to or exceed the screening criteria.

(a) For an organic analyte, the screening criterion is the GCTL; for an inorganic analyte with an established GCTL and BGSV, the screening criterion is the greater of the GCTL or the BGSV.
(b) Groundwater Cleanup Target Level (Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., May 26, 1999).
(c) Background Screening Value (Background Sampling Report for NTC, Orlando, Florida; ABB Environmental Services, August 1995) for inorganics only.
(d) Screening Criteria Substitution – Chlordane for alpha-Chlordane and gamma-Chlordane, and Endosulfan for Endosulfan II.
(e) PCBs not analyzed for.

TABLE 5

VALIDATED GROUNDWATER ANALYTICAL RESULTS - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION		Screening Criteria [a]		OLD-08-01	OLD-08-02	OLD-08-03	OLD-08-04	OLD-08-05	
SAMPLE ID		Florida	NTC	NTC08G0112	NTC08G0212	NTC08G0312	NTC08G0412	NTC08G0512	NTC08G0512-D
LAB ID	CAS Number	GCTL[b]	BGSV[c]	A9J210106004	A9J210106003	A9J210106007	A9J210106005	A9J220158007	A9J220158008
SAMPLE DATE				10/19/99	10/19/99	10/19/99	10/19/99	10/21/99	10/21/99
Semivolatiles (µg/L)									
1,2,4-Trichlorobenzene	120-82-1	70		NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	600		NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	10		NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	75		NA	NA	NA	NA	NA	NA
2,2'-Oxybis (1-Chloropropane)	108-60-1	10		NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	4		NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	88-06-2	3.2		NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	120-83-2	0.5		NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	105-67-9	140		NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	51-28-5	14		NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	121-14-2	0.1		NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	606-20-2	0.1		NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	91-58-7	560		NA	NA	NA	NA	NA	NA
2-Chlorophenol	95-57-8	35		NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	20		NA	NA	NA	NA	NA	NA
2-Methylphenol	95-48-7	35		NA	NA	NA	NA	NA	NA
2-Nitroaniline	88-74-4	50		NA	NA	NA	NA	NA	NA
2-Nitrophenol	88-75-5	*		NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	91-94-1	12		NA	NA	NA	NA	NA	NA
3-Nitroaniline	99-09-2	50		NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	534-52-1	*		NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	101-55-3	406		NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	59-50-7	63		NA	NA	NA	NA	NA	NA
4-Chloroaniline	106-47-8	28		NA	NA	NA	NA	NA	NA
4-Chlorophenyl Phenyl Ether	7005-72-3	*		NA	NA	NA	NA	NA	NA
4-Methylphenol	106-44-5	4		NA	NA	NA	NA	NA	NA
4-Nitroaniline	100-01-6	21		NA	NA	NA	NA	NA	NA
4-Nitrophenol	100-02-7	56		NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)Methane	111-91-1	*		NA	NA	NA	NA	NA	NA
Bis(2-Chloroethyl)Ether	111-44-4	4		NA	NA	NA	NA	NA	NA
Bis(2-Chloroisopropyl)Ether	108-60-1	10		NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)Phthalate	117-81-7	6		NA	NA	NA	NA	NA	NA
Butylbenzyl Phthalate	85-68-7	140		NA	NA	NA	NA	NA	NA
Carbazole	86-74-8	4		NA	NA	NA	NA	NA	NA
Di-N-Butyl Phthalate	84-74-2	700		NA	NA	NA	NA	NA	NA
Di-N-Octyl Phthalate	117-84-0	140		NA	NA	NA	NA	NA	NA
Dibenzofuran	132-64-9	28		NA	NA	NA	NA	NA	NA
Diethyl Phthalate	84-66-2	5600		NA	NA	NA	NA	NA	NA
Dimethyl Phthalate	131-11-3	70000		NA	NA	NA	NA	NA	NA
Hexachlorobenzene	118-74-1	1		NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	0.5		NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	77-47-4	50		NA	NA	NA	NA	NA	NA
Hexachloroethane	67-72-1	2.5		NA	NA	NA	NA	NA	NA
Isophorone	78-59-1	37		NA	NA	NA	NA	NA	NA
N-Nitroso-Di-N-Propylamine	621-64-7	4		NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	86-30-6	7.1		NA	NA	NA	NA	NA	NA
Nitrobenzene	98-95-3	4		NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	1		NA	NA	NA	NA	NA	NA
Phenol	108-95-2	10		NA	NA	NA	NA	NA	NA
PAHs (µg/L)									
1-Methylnaphthalene	90-12-0	20		NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	20		NA	NA	NA	NA	NA	NA
Acenaphthene	83-32-9	20		NA	NA	NA	NA	NA	NA
Acenaphthylene	208-96-8	210		NA	NA	NA	NA	NA	NA
Anthracene	120-12-7	2100		NA	NA	NA	NA	NA	NA
Benzo(a)Anthracene	56-55-3	0.2		NA	NA	NA	NA	NA	NA
Benzo(a)Pyrene	50-32-8	0.2		NA	NA	NA	NA	NA	NA
Benzo(b)Fluoranthene	205-99-2	0.2		NA	NA	NA	NA	NA	NA
Benzo(g,h,i)Perylene	191-24-2	210		NA	NA	NA	NA	NA	NA
Benzo(k)Fluoranthene	207-08-9	0.5		NA	NA	NA	NA	NA	NA
Chrysene	218-01-9	4.8		NA	NA	NA	NA	NA	NA
Dibenzo(a,h)Anthracene	53-70-3	0.2		NA	NA	NA	NA	NA	NA
Fluoranthene	206-44-0	280		NA	NA	NA	NA	NA	NA
Fluorene	86-73-7	280		NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	193-39-5	0.2		NA	NA	NA	NA	NA	NA
Naphthalene	91-20-3	20		NA	NA	NA	NA	NA	NA
Phenanthrene	85-01-8	210		NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	210		NA	NA	NA	NA	NA	NA

TABLE 5

VALIDATED GROUNDWATER ANALYTICAL RESULTS - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION		Screening Criteria [a]		OLD-08-01	OLD-08-02	OLD-08-03	OLD-08-04	OLD-08-05	
SAMPLE ID		Florida	NTC	NTC08G0112	NTC08G0212	NTC08G0312	NTC08G0412	NTC08G0512	NTC08G0512-D
LAB ID	CAS Number	GCTL[b]	BGSV [c]	A9J210106004	A9J210106003	A9J210106007	A9J210106005	A9J220158007	A9J220158008
SAMPLE DATE				10/19/99	10/19/99	10/19/99	10/19/99	10/21/99	10/21/99
Pesticides (µg/L)									
4,4'-DDD	72-54-8	0.1		NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	0.1		NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	0.1		NA	NA	NA	NA	NA	NA
Aldrin	309-00-2	0.005		NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	0.2		NA	NA	NA	NA	NA	NA
alpha-Chlordane[d]	5103-71-9	2		NA	NA	NA	NA	NA	NA
Beta-BHC	319-85-7	0.02		NA	NA	NA	NA	NA	NA
Delta-BHC	319-86-8	2.1		NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	0.005		NA	NA	NA	NA	NA	NA
Endosulfan	115-29-7	42		NA	NA	NA	NA	NA	NA
Endosulfan II[d]	33213-65-9	42		NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-8	*		NA	NA	NA	NA	NA	NA
Endrin	72-20-8	2		NA	NA	NA	NA	NA	NA
Endrin Aldehyde	7421-93-4	*		NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	*		NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	0.2		NA	NA	NA	NA	NA	NA
gamma-Chlordane[d]	12789-03-6	2		NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	0.4		NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	0.2		NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	40		NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	3		NA	NA	NA	NA	NA	NA
Herbicides (µg/L)									
2,4,5-TP (Silvex)	93-72-1	50		NA	NA	NA	NA	NA	NA
2,4,5-T	93-76-5	70		NA	NA	NA	NA	NA	NA
2,4-D	94-75-7	70		NA	NA	NA	NA	NA	NA
2,4-DB	94-82-6	56		NA	NA	NA	NA	NA	NA
Dalapon	75-99-0	200		NA	NA	NA	NA	NA	NA
Dicamba	1918-00-9	210		NA	NA	NA	NA	NA	NA
Dichloroprop	120-36-5	35		NA	NA	NA	NA	NA	NA
Dinoseb	88-85-7	7		NA	NA	NA	NA	NA	NA
MCPA	94-74-6	3.5		NA	NA	NA	NA	NA	NA
MCPP	7085-19-0	7		NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	1		NA	NA	NA	NA	NA	NA
Inorganics (µg/L)									
Aluminum	7429-90-5	200	4067	156	515	721	261	289	276
Antimony	7440-36-0	6	4.1	7.4	6	13.8	3.6	2.6 U	2.6 U
Arsenic	7440-38-2	50	5	229	581	610	381	54	55.3
Barium	7440-39-3	2000	31.4	11.9	36	51.6	8.4	7.7	8.1
Beryllium	7440-41-7	4	*	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Cadmium	7440-43-9	5	5.6	0.2 U	0.23	0.2 U	0.44	0.42	0.39
Calcium	7440-70-2	*	36830	56300	81600	89600	59000	17800	18200
Chromium	7440-47-3	100	7.8	3.6	2.4	4.5	4.1	10.1	10.7
Cobalt	7440-48-4	420	*	0.7 U	0.7 U	1.3	0.7 U	0.7 U	0.7 U
Copper	7440-50-8	1000	5.4	5.2	6.7	2.9	11.1	30.8	29.2
Iron	7439-89-6	300	1227	98.3 U	332	201	27.5 U	590	583
Lead	7439-92-1	15	4	1.5 U	3.2	1.5 U	1.5 U	35.7	34.1
Magnesium	7439-95-4	*	4560	4510	5550	8120	6740	1510	1550
Manganese	7439965	50	17	21.8	27.2	55.4	39.2	25.2	25.5
Mercury	7439-97-6	2	0.12	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	7440-02-0	100	*	2.2 U	2.1 U	27.4	6.8 U	5.2 U	4.2 U
Potassium	7440-09-7	*	5400	12600	11000	20900	19500	3100	3240
Selenium	7782-49-2	50	9.7	5.6 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Silver	7440-22-4	100	*	1.6 U	1.6 U	1.6 U	1.6 U	1.7	1.8
Sodium	7440-23-5	160000	18222	3560	8220	5970	4370	1220	1290
Thallium	7440-28-0	2	3.8	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Vanadium	7440-62-2	49	20.6	2.3	1	1.2	3.1	4.3	4.2
Zinc	7440-66-6	5000	4	49.2 U	131	561	310	66.1 U	67.8 U

TABLE 5

VALIDATED GROUNDWATER ANALYTICAL RESULTS - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION		Screening Criteria [a]		OLD-08-06	OLD-08-08	OLD-08-10	OLD-08-11	OLD-08-13	OLD-08-14	OLD-08-15
SAMPLE ID		Florida	NTC	NTC08G0612	NTC08G0812	NTC08G1012	NTC08G1112	NTC08G1312	NTC08G1412	NTC08G1512
LAB ID	CAS Number	GCTL[b]	BGSV[c]	A9J210106008	A9J210106002	A9J220158006	A9J210106006	A9J220158005	A9J210231004	A9J210231006
SAMPLE DATE				10/19/99	10/19/99	10/21/99	10/19/99	10/21/99	10/20/99	10/20/99
Semivolatiles (µg/L)										
1,2,4-Trichlorobenzene	120-82-1	70		NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	600		NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	10		NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	75		NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis (1-Chloropropane)	108-60-1	10		NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	4		NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	88-06-2	3.2		NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	120-83-2	0.5		NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	105-67-9	140		NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	51-28-5	14		NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	121-14-2	0.1		NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	606-20-2	0.1		NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	91-58-7	560		NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	95-57-8	35		NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	20		NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	95-48-7	35		NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	88-74-4	50		NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	88-75-5	*		NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	91-94-1	12		NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	99-09-2	50		NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-Methylphenol	534-52-1	*		NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl Phenyl Ether	101-55-3	406		NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	59-50-7	63		NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	106-47-8	28		NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl Phenyl Ether	7005-72-3	*		NA	NA	NA	NA	NA	NA	NA
4-Methylphenol	106-44-5	4		NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	100-01-6	21		NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	100-02-7	56		NA	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)Methane	111-91-1	*		NA	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethyl)Ether	111-44-4	4		NA	NA	NA	NA	NA	NA	NA
Bis(2-Chloroisopropyl)Ether	108-60-1	10		NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)Phthalate	117-81-7	6		NA	NA	NA	NA	NA	NA	NA
Butylbenzyl Phthalate	85-68-7	140		NA	NA	NA	NA	NA	NA	NA
Carbazole	86-74-8	4		NA	NA	NA	NA	NA	NA	NA
Di-N-Butyl Phthalate	84-74-2	700		NA	NA	NA	NA	NA	NA	NA
Di-N-Octyl Phthalate	117-84-0	140		NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	132-64-9	28		NA	NA	NA	NA	NA	NA	NA
Diethyl Phthalate	84-66-2	5600		NA	NA	NA	NA	NA	NA	NA
Dimethyl Phthalate	131-11-3	70000		NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	118-74-1	1		NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	0.5		NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	77-47-4	50		NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	67-72-1	2.5		NA	NA	NA	NA	NA	NA	NA
Isophorone	78-59-1	37		NA	NA	NA	NA	NA	NA	NA
N-Nitroso-Di-N-Propylamine	621-64-7	4		NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	86-30-6	7.1		NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	98-95-3	4		NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	1		NA	NA	NA	NA	NA	NA	NA
Phenol	108-95-2	10		NA	NA	NA	NA	NA	NA	NA
PAHs (µg/L)										
1-Methylnaphthalene	90-12-0	20		NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	20		NA	NA	NA	NA	NA	NA	NA
Acenaphthene	83-32-9	20		NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	208-96-8	210		NA	NA	NA	NA	NA	NA	NA
Anthracene	120-12-7	2100		NA	NA	NA	NA	NA	NA	NA
Benzo(a)Anthracene	56-55-3	0.2		NA	NA	NA	NA	NA	NA	NA
Benzo(a)Pyrene	50-32-8	0.2		NA	NA	NA	NA	NA	NA	NA
Benzo(b)Fluoranthene	205-99-2	0.2		NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)Perylene	191-24-2	210		NA	NA	NA	NA	NA	NA	NA
Benzo(k)Fluoranthene	207-08-9	0.5		NA	NA	NA	NA	NA	NA	NA
Chrysene	218-01-9	4.8		NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)Anthracene	53-70-3	0.2		NA	NA	NA	NA	NA	NA	NA
Fluoranthene	206-44-0	280		NA	NA	NA	NA	NA	NA	NA
Fluorene	86-73-7	280		NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	193-39-5	0.2		NA	NA	NA	NA	NA	NA	NA
Naphthalene	91-20-3	20		NA	NA	NA	NA	NA	NA	NA
Phenanthrene	85-01-8	210		NA	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	210		NA	NA	NA	NA	NA	NA	NA

TABLE 5

VALIDATED GROUNDWATER ANALYTICAL RESULTS - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION		Screening Criteria [a]		OLD-08-06	OLD-08-08	OLD-08-10	OLD-08-11	OLD-08-13	OLD-08-14	OLD-08-15
SAMPLE ID		Florida	NTC	NTC08G0612	NTC08G0812	NTC08G1012	NTC08G1112	NTC08G1312	NTC08G1412	NTC08G1512
LAB ID	CAS Number	GCTL[b]	BGSV[c]	A9J210106008	A9J210106002	A9J220158006	A9J210106006	A9J220158005	A9J210231004	A9J210231006
SAMPLE DATE				10/19/99	10/19/99	10/21/99	10/19/99	10/21/99	10/20/99	10/20/99
Pesticides (µg/L)										
4,4'-DDD	72-54-8	0.1		NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	72-55-9	0.1		NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	50-29-3	0.1		NA	NA	NA	NA	NA	NA	NA
Aldrin	309-00-2	0.005		NA	NA	NA	NA	NA	NA	NA
alpha-BHC	319-84-6	0.2		NA	NA	NA	NA	NA	NA	NA
alpha-Chlordane[d]	5103-71-9	2		NA	NA	NA	NA	NA	NA	NA
Beta-BHC	319-85-7	0.02		NA	NA	NA	NA	NA	NA	NA
Delta-BHC	319-86-8	2.1		NA	NA	NA	NA	NA	NA	NA
Dieldrin	60-57-1	0.005		NA	NA	NA	NA	NA	NA	NA
Endosulfan	115-29-7	42		NA	NA	NA	NA	NA	NA	NA
Endosulfan II[d]	33213-65-9	42		NA	NA	NA	NA	NA	NA	NA
Endosulfan Sulfate	1031-07-8	*		NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	2		NA	NA	NA	NA	NA	NA	NA
Endrin Aldehyde	7421-93-4	*		NA	NA	NA	NA	NA	NA	NA
Endrin Ketone	53494-70-5	*		NA	NA	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	58-89-9	0.2		NA	NA	NA	NA	NA	NA	NA
gamma-Chlordane[d]	12789-03-6	2		NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	0.4		NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	0.2		NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	40		NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	3		NA	NA	NA	NA	NA	NA	NA
Herbicides (µg/L)										
2,4,5-TP (Silvex)	93-72-1	50		NA	1 U	1 U	1 U	NA	1 U	1 U
2,4,5-T	93-76-5	70		NA	1 U	1 U	1 U	NA	1 UJ	1 UJ
2,4-D	94-75-7	70		NA	4 U	4 U	4 U	NA	4 U	4 U
2,4-DB	94-82-6	56		NA	4 U	4 U	4 U	NA	4 U	4 U
Dalapon	75-99-0	200		NA	23 U	29 U	49 U	NA	32 U	2 UJ
Dicamba	1918-00-9	210		NA	2 U	2 U	1.3 J	NA	2 U	2 U
Dichloroprop	120-36-5	35		NA	4 U	4 U	4 U	NA	4 U	4 U
Dinoseb	88-85-7	7		NA	0.6 U	0.6 U	0.6 U	NA	0.6 U	0.6 U
MCPA	94-74-6	3.5		NA	400 UJ	400 U	400 UJ	NA	400 UJ	400 UJ
MCPP	7085-19-0	7		NA	400 UJ	400 U	400 UJ	NA	400 UJ	400 UJ
Pentachlorophenol	87-86-5	1		NA	NA	0.1 U	NA	NA	NA	NA
Inorganics (µg/L)										
Aluminum	7429-90-5	200	4067	94.6	73.6 U	73.6 U	404	447	2230	4010
Antimony	7440-36-0	6	4.1	2.6 U	10.1	2.6 U	2.6 U	2.6 U	11.2	4.9
Arsenic	7440-38-2	50	5	71.8	194	276	114	30.7	224	14.7
Barium	7440-39-3	2000	31.4	7.4	37.3	9.7	3.8	16.6	20.7	7.3
Beryllium	7440-41-7	4	*	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Cadmium	7440-43-9	5	5.6	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.96	0.2 U
Calcium	7440-70-2	*	36830	30800	116000	53500	34100	14000	30500	7510
Chromium	7440-47-3	100	7.8	4.9	1.6 U	1.6 U	3.6	1.6 U	6.7	2.1
Cobalt	7440-48-4	420	*	0.7 U	0.7 U	0.7 U	0.7 U	0.96	2.2	0.7 U
Copper	7440-50-8	1000	5.4	4.6	1.1 U	1.1 U	1.1 U	1.1 U	56.5	6.7
Iron	7439-89-6	300	1227	185	109 U	120	83.8 U	2150	10500	652
Lead	7439-92-1	15	4	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	151	28.5
Magnesium	7439-95-4	*	4560	2030	4600	4740	2740	3140	6670	3250
Manganese	7439965	50	17	11.7	8.8 U	29.3	4 U	75.1	119	9.4 U
Mercury	7439-97-6	2	0.12	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	7440-02-0	100	*	3.2 U	3 U	1.4 U	1.8 U	2.2 U	85	3.4 U
Potassium	7440-09-7	*	5400	3270	11100	2680	6990	669	4070	3860
Selenium	7782-49-2	50	9.7	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	5.4 U	4.7 U
Silver	7440-22-4	100	*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	2.4	1.6 U
Sodium	7440-23-5	160000	18222	1200	4830	2750	5570	7200	31200	40900
Thallium	7440-28-0	2	3.8	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Vanadium	7440-62-2	49	20.6	3.7	0.62	0.5 U	0.5 U	0.72	7	3
Zinc	7440-66-6	5000	4	43.4 U	12.6 U	7 U	15.1 U	9.6 U	341	47.3 U

TABLE 5

VALIDATED GROUNDWATER ANALYTICAL RESULTS - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION		Screening Criteria [a]		OLD-08-17	OLD-08-18	OLD-09-01	OLD-09-01	OLD-09-02	OLD-09-03	OLD-09-03
SAMPLE ID		Florida	NTC	NTC08G1712	NTC08G1812	NTC09G0112	NTC09G0112-D	NTC09G0212	NTC09G0312	NTC09G0312-D
LAB ID	CAS Number	GCTL [b]	BGSV [c]	A9J210106001	A9J210231005	A9J220158002	A9J220158003	A9J230148006	A9J210231001	A9J210231002
SAMPLE DATE				10/19/99	10/20/99	10/21/99	10/21/99	10/22/99	10/20/99	10/20/99
Semivolatiles (µg/L)										
1,2,4-Trichlorobenzene	120-82-1	70		NA	NA	NA	NA	NA	10 U	10 U
1,2-Dichlorobenzene	95-50-1	600		NA	NA	NA	NA	NA	10 U	10 U
1,3-Dichlorobenzene	541-73-1	10		NA	NA	NA	NA	NA	10 U	10 U
1,4-Dichlorobenzene	106-46-7	75		NA	NA	NA	NA	NA	10 U	10 U
2,2'-Oxybis (1-Chloropropane)	108-60-1	10		NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	4		NA	NA	NA	NA	NA	10 U	10 U
2,4,6-Trichlorophenol	88-06-2	3.2		NA	NA	NA	NA	NA	10 U	10 U
2,4-Dichlorophenol	120-83-2	0.5		NA	NA	NA	NA	NA	10 U	10 U
2,4-Dimethylphenol	105-67-9	140		NA	NA	NA	NA	NA	10 U	10 U
2,4-Dinitrophenol	51-28-5	14		NA	NA	NA	NA	NA	25 U	25 U
2,4-Dinitrotoluene	121-14-2	0.1		NA	NA	NA	NA	NA	10 U	10 U
2,6-Dinitrotoluene	606-20-2	0.1		NA	NA	NA	NA	NA	10 U	10 U
2-Chloronaphthalene	91-58-7	560		NA	NA	NA	NA	NA	10 U	10 U
2-Chlorophenol	95-57-8	35		NA	NA	NA	NA	NA	10 U	10 U
2-Methylnaphthalene	91-57-6	20		NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	95-48-7	35		NA	NA	NA	NA	NA	10 U	10 U
2-Nitroaniline	88-74-4	50		NA	NA	NA	NA	NA	25 U	25 U
2-Nitrophenol	88-75-5	*		NA	NA	NA	NA	NA	10 U	10 U
3,3'-Dichlorobenzidine	91-94-1	12		NA	NA	NA	NA	NA	10 U	10 U
3-Nitroaniline	99-09-2	50		NA	NA	NA	NA	NA	25 U	25 U
4,6-Dinitro-2-Methylphenol	534-52-1	*		NA	NA	NA	NA	NA	25 U	25 U
4-Bromophenyl Phenyl Ether	101-55-3	406		NA	NA	NA	NA	NA	10 U	10 U
4-Chloro-3-Methylphenol	59-50-7	63		NA	NA	NA	NA	NA	10 U	10 U
4-Chloroaniline	106-47-8	28		NA	NA	NA	NA	NA	10 U	10 U
4-Chlorophenyl Phenyl Ether	7005-72-3	*		NA	NA	NA	NA	NA	10 U	10 U
4-Methylphenol	106-44-5	4		NA	NA	NA	NA	NA	10 U	10 U
4-Nitroaniline	100-01-6	21		NA	NA	NA	NA	NA	25 U	25 U
4-Nitrophenol	100-02-7	56		NA	NA	NA	NA	NA	25 U	25 U
Bis(2-Chloroethoxy)Methane	111-91-1	*		NA	NA	NA	NA	NA	10 U	10 U
Bis(2-Chloroethyl)Ether	111-44-4	4		NA	NA	NA	NA	NA	10 U	10 U
Bis(2-Chloroisopropyl)Ether	108-60-1	10		NA	NA	NA	NA	NA	10 U	10 U
Bis(2-Ethylhexyl)Phthalate	117-81-7	6		NA	NA	NA	NA	NA	11 U	10 U
Butylbenzyl Phthalate	85-68-7	140		NA	NA	NA	NA	NA	10 U	10 U
Carbazole	86-74-8	4		NA	NA	NA	NA	NA	10 U	10 U
Di-N-Butyl Phthalate	84-74-2	700		NA	NA	NA	NA	NA	10 U	10 U
Di-N-Octyl Phthalate	117-84-0	140		NA	NA	NA	NA	NA	10 U	10 U
Dibenzofuran	132-64-9	28		NA	NA	NA	NA	NA	10 U	10 U
Diethyl Phthalate	84-66-2	5600		NA	NA	NA	NA	NA	10 U	10 U
Dimethyl Phthalate	131-11-3	70000		NA	NA	NA	NA	NA	10 U	10 U
Hexachlorobenzene	118-74-1	1		NA	NA	NA	NA	NA	10 U	10 U
Hexachlorobutadiene	87-68-3	0.5		NA	NA	NA	NA	NA	10 U	10 U
Hexachlorocyclopentadiene	77-47-4	50		NA	NA	NA	NA	NA	10 U	10 U
Hexachloroethane	67-72-1	2.5		NA	NA	NA	NA	NA	10 UJ	10 UJ
Isophorone	78-59-1	37		NA	NA	NA	NA	NA	10 U	10 U
N-Nitroso-Di-N-Propylamine	621-64-7	4		NA	NA	NA	NA	NA	10 U	10 U
N-Nitrosodiphenylamine	86-30-6	7.1		NA	NA	NA	NA	NA	10 U	10 U
Nitrobenzene	98-95-3	4		NA	NA	NA	NA	NA	10 U	10 U
Pentachlorophenol	87-86-5	1		NA	NA	NA	NA	NA	25 U	25 U
Phenol	108-95-2	10		NA	NA	NA	NA	NA	10 U	10 U
PAHs (µg/L)										
1-Methylnaphthalene	90-12-0	20		NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	20		NA	NA	NA	NA	NA	10 U	10 U
Acenaphthene	83-32-9	20		NA	NA	NA	NA	NA	10 U	10 U
Acenaphthylene	208-96-8	210		NA	NA	NA	NA	NA	10 U	10 U
Anthracene	120-12-7	2100		NA	NA	NA	NA	NA	10 U	10 U
Benzo(a)Anthracene	56-55-3	0.2		NA	NA	NA	NA	NA	10 U	10 U
Benzo(a)Pyrene	50-32-8	0.2		NA	NA	NA	NA	NA	10 U	10 U
Benzo(b)Fluoranthene	205-99-2	0.2		NA	NA	NA	NA	NA	10 U	10 U
Benzo(g,h,i)Perylene	191-24-2	210		NA	NA	NA	NA	NA	10 U	10 U
Benzo(k)Fluoranthene	207-08-9	0.5		NA	NA	NA	NA	NA	10 U	10 U
Chrysene	218-01-9	4.8		NA	NA	NA	NA	NA	10 U	10 U
Dibenzo(a,h)Anthracene	53-70-3	0.2		NA	NA	NA	NA	NA	10 U	10 U
Fluoranthene	206-44-0	280		NA	NA	NA	NA	NA	10 U	10 U
Fluorene	86-73-7	280		NA	NA	NA	NA	NA	10 U	10 U
Indeno(1,2,3-cd)Pyrene	193-39-5	0.2		NA	NA	NA	NA	NA	10 U	10 U
Naphthalene	91-20-3	20		NA	NA	NA	NA	NA	10 U	10 U
Phenanthrene	85-01-8	210		NA	NA	NA	NA	NA	10 U	10 U
Pyrene	129-00-0	210		NA	NA	NA	NA	NA	10 U	10 U

TABLE 5

VALIDATED GROUNDWATER ANALYTICAL RESULTS - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION		Screening Criteria [a]		OLD-08-17	OLD-08-18	OLD-09-01	OLD-09-01	OLD-09-02	OLD-09-03	OLD-09-03
SAMPLE ID		Florida	NTC	NTC08G1712	NTC08G1812	NTC09G0112	NTC09G0112-D	NTC09G0212	NTC09G0312	NTC09G0312-D
LAB ID	CAS Number	GCTL[b]	BGSV[c]	A9J210106001	A9J210231005	A9J220158002	A9J220158003	A9J230148006	A9J210231001	A9J210231002
SAMPLE DATE				10/19/99	10/20/99	10/21/99	10/21/99	10/22/99	10/20/99	10/20/99
Pesticides (µg/L)										
4,4'-DDD	72-54-8	0.1		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
4,4'-DDE	72-55-9	0.1		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
4,4'-DDT	50-29-3	0.1		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Aldrin	309-00-2	0.005		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
alpha-BHC	319-84-6	0.2		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
alpha-Chlordane[d]	5103-71-9	2		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Beta-BHC	319-85-7	0.02		NA	NA	0.1 UJ	0.1 UJ	0.1 R	0.05 UJ	0.05 UJ
Delta-BHC	319-86-8	2.1		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Dieldrin	60-57-1	0.005		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Endosulfan	115-29-7	42		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Endosulfan II[d]	33213-65-9	42		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Endosulfan Sulfate	1031-07-8	*		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Endrin	72-20-8	2		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Endrin Aldehyde	7421-93-4	*		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Endrin Ketone	53494-70-5	*		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
gamma-BHC (Lindane)	58-89-9	0.2		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
gamma-Chlordane[d]	12789-03-6	2		NA	NA	0.034 J	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Heptachlor	76-44-8	0.4		NA	NA	0.1 UJ	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Heptachlor Epoxide	1024-57-3	0.2		NA	NA	0.08 R	0.1 UJ	0.25 U	0.05 UJ	0.05 UJ
Methoxychlor	72-43-5	40		NA	NA	0.2 UJ	0.2 UJ	0.5 UJ	0.1 UJ	0.1 UJ
Toxaphene	8001-35-2	3		NA	NA	4 UJ	4 UJ	10 U	2 UJ	2 UJ
Herbicides (µg/L)										
2,4,5-TP (Silvex)	93-72-1	50		NA	1 U	1 U	1 U	1 U	1 U	1 U
2,4,5-T	93-76-5	70		NA	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ
2,4-D	94-75-7	70		NA	4 U	4 U	4 U	4 U	4 U	4 U
2,4-DB	94-82-6	56		NA	4 U	4 U	4 U	4 U	4 U	4 U
Dalapon	75-99-0	200		NA	2 UJ	2.3 U	16 U	2 U	2 UJ	5 U
Dicamba	1918-00-9	210		NA	2 U	2 U	2 U	2 U	2 U	2 U
Dichloroprop	120-36-5	35		NA	4 U	4 U	4 U	4 U	4 U	4 U
Dinoseb	88-85-7	7		NA	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
MCPA	94-74-6	3.5		NA	400 UJ	400 U	400 U	400 U	400 UJ	400 UJ
MCPP	7085-19-0	7		NA	180 J	400 U	400 U	400 U	400 UJ	400 UJ
Pentachlorophenol	87-86-5	1		NA	NA	0.1 U	0.1 U	0.1 U	NA	NA
Inorganics (µg/L)										
Aluminum	7429-90-5	200	4067	73.6 U	835	73.6 U	73.6 U	1510	455	472
Antimony	7440-36-0	6	4.1	4.6	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Arsenic	7440-38-2	50	5	156	2.7 U	30	30.8	2.7 U	2.7 U	2.7 U
Barium	7440-39-3	2000	31.4	29.8	35.6	55.4	55	2.7	2.2	2.9
Beryllium	7440-41-7	4	*	0.3 U	0.3 U	0.3 U	0.3 U	0.46 U	0.3 U	0.3 U
Cadmium	7440-43-9	5	5.6	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	7440-70-2	*	36830	99300	5240	94400	93700	5540	11000	11300
Chromium	7440-47-3	100	7.8	2.3	3	1.6 U	1.6 U	2.7	1.6 U	1.6 U
Cobalt	7440-48-4	420	*	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.82
Copper	7440-50-8	1000	5.4	2.4	2.8	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Iron	7439-89-6	300	1227	257	3360	285	283	121	131	139
Lead	7439-92-1	15	4	13.4	1.6	1.5 U	1.5 U	1.8	1.5 U	1.5 U
Magnesium	7439-95-4	*	4560	3820	1880	6550	6530	1230	2300	2370
Manganese	7439965	50	17	59.1	185	18.1	19.4	1.8 U	1.4 U	1.9 U
Mercury	7439-97-6	2	0.12	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	7440-02-0	100	*	3.7 U	3.2 U	3.2 U	2.8 U	1.3 U	1.3 U	1.5 U
Potassium	7440-09-7	*	5400	6640	801	5200	5140	3580	3650	3770
Selenium	7782-49-2	50	9.7	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U	4.7 U
Silver	7440-22-4	100	*	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Sodium	7440-23-5	160000	18222	2730	8770	1520	1520	4200	2360	2530
Thallium	7440-28-0	2	3.8	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Vanadium	7440-62-2	49	20.6	4.1	4.6	0.58	0.5 U	1.5	0.5 U	0.7
Zinc	7440-66-6	5000	4	13.1 U	19.3 U	17 U	10.1 U	20.2 U	10.6 U	12.9 U

TABLE 5

VALIDATED GROUNDWATER ANALYTICAL RESULTS - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION		Screening Criteria [a]		OLD-09-04	OLD-09-05	OLD-09-06	OLD-09-07	OLD-09-10	OLD-09-11	OLD-09-12
SAMPLE ID		Florida	NTC	NTC09G0412	NTC09G0512	NTC09G0612	NTC09G0712	NTC09G1012	NTC09G1112	NTC09G1212
LAB ID	CAS Number	GCTL[b]	BGSV [c]	A9J220158004	A9J230148001	A9J230148003	A9J260203001	A9J220158001	A9J210231003	A9J230148005
SAMPLE DATE				10/21/99	10/22/99	10/22/99	10/23/99	10/21/99	10/20/99	10/22/99
Semivolatiles (µg/L)										
1,2,4-Trichlorobenzene	120-82-1	70		25 U	NA	NA	NA	NA	NA	10 U
1,2-Dichlorobenzene	95-50-1	600		25 U	NA	NA	NA	NA	NA	10 U
1,3-Dichlorobenzene	541-73-1	10		25 U	NA	NA	NA	NA	NA	10 U
1,4-Dichlorobenzene	106-46-7	75		25 U	NA	NA	NA	NA	NA	10 U
2,2'-Oxybis (1-Chloropropane)	108-60-1	10		NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	4		25 U	NA	NA	NA	NA	NA	10 U
2,4,6-Trichlorophenol	88-06-2	3.2		25 U	NA	NA	NA	NA	NA	10 U
2,4-Dichlorophenol	120-83-2	0.5		25 U	NA	NA	NA	NA	NA	4.9 J
2,4-Dimethylphenol	105-67-9	140		25 U	NA	NA	NA	NA	NA	10 U
2,4-Dinitrophenol	51-28-5	14		62 U	NA	NA	NA	NA	NA	25 U
2,4-Dinitrotoluene	121-14-2	0.1		25 U	NA	NA	NA	NA	NA	10 U
2,6-Dinitrotoluene	606-20-2	0.1		25 U	NA	NA	NA	NA	NA	10 U
2-Chloronaphthalene	91-58-7	560		25 U	NA	NA	NA	NA	NA	10 U
2-Chlorophenol	95-57-8	35		25 U	NA	NA	NA	NA	NA	10 U
2-Methylnaphthalene	91-57-6	20		NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	95-48-7	35		25 U	NA	NA	NA	NA	NA	10 U
2-Nitroaniline	88-74-4	50		62 U	NA	NA	NA	NA	NA	25 U
2-Nitrophenol	88-75-5	*		25 U	NA	NA	NA	NA	NA	10 U
3,3'-Dichlorobenzidine	91-94-1	12		25 U	NA	NA	NA	NA	NA	10 U
3-Nitroaniline	99-09-2	50		62 U	NA	NA	NA	NA	NA	25 U
4,6-Dinitro-2-Methylphenol	534-52-1	*		62 U	NA	NA	NA	NA	NA	25 U
4-Bromophenyl Phenyl Ether	101-55-3	406		25 U	NA	NA	NA	NA	NA	10 U
4-Chloro-3-Methylphenol	59-50-7	63		25 U	NA	NA	NA	NA	NA	10 U
4-Chloroaniline	106-47-8	28		25 UR	NA	NA	NA	NA	NA	10 U
4-Chlorophenyl Phenyl Ether	7005-72-3	*		25 U	NA	NA	NA	NA	NA	10 U
4-Methylphenol	106-44-5	4		25 U	NA	NA	NA	NA	NA	10 U
4-Nitroaniline	100-01-6	21		62 U	NA	NA	NA	NA	NA	25 U
4-Nitrophenol	100-02-7	56		62 U	NA	NA	NA	NA	NA	25 U
Bis(2-Chloroethoxy)Methane	111-91-1	*		25 U	NA	NA	NA	NA	NA	10 U
Bis(2-Chloroethyl)Ether	111-44-4	4		25 U	NA	NA	NA	NA	NA	10 U
Bis(2-Chloroisopropyl)Ether	108-60-1	10		25 U	NA	NA	NA	NA	NA	10 U
Bis(2-Ethylhexyl)Phthalate	117-81-7	6		25 U	NA	NA	NA	NA	NA	10 U
Butylbenzyl Phthalate	85-68-7	140		25 U	NA	NA	NA	NA	NA	10 U
Carbazole	86-74-8	4		25 U	NA	NA	NA	NA	NA	10 U
Di-N-Butyl Phthalate	84-74-2	700		25 U	NA	NA	NA	NA	NA	10 U
Di-N-Octyl Phthalate	117-84-0	140		25 U	NA	NA	NA	NA	NA	10 U
Dibenzofuran	132-64-9	28		25 U	NA	NA	NA	NA	NA	10 U
Diethyl Phthalate	84-66-2	5600		25 U	NA	NA	NA	NA	NA	10 U
Dimethyl Phthalate	131-11-3	70000		25 U	NA	NA	NA	NA	NA	10 U
Hexachlorobenzene	118-74-1	1		25 U	NA	NA	NA	NA	NA	10 U
Hexachlorobutadiene	87-68-3	0.5		25 U	NA	NA	NA	NA	NA	10 U
Hexachlorocyclopentadiene	77-47-4	50		25 U	NA	NA	NA	NA	NA	10 U
Hexachloroethane	67-72-1	2.5		25 U	NA	NA	NA	NA	NA	10 U
Isophorone	78-59-1	37		25 U	NA	NA	NA	NA	NA	10 U
N-Nitroso-Di-N-Propylamine	621-64-7	4		25 U	NA	NA	NA	NA	NA	10 U
N-Nitrosodiphenylamine	86-30-6	7.1		25 U	NA	NA	NA	NA	NA	10 U
Nitrobenzene	98-95-3	4		25 U	NA	NA	NA	NA	NA	10 U
Pentachlorophenol	87-86-5	1		62 U	NA	NA	NA	NA	NA	25 U
Phenol	108-95-2	10		25 U	NA	NA	NA	NA	NA	10 U
PAHs (µg/L)										
1-Methylnaphthalene	90-12-0	20		NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	20		25 U	NA	NA	NA	NA	NA	10 U
Acenaphthene	83-32-9	20		25 U	NA	NA	NA	NA	NA	10 U
Acenaphthylene	208-96-8	210		25 U	NA	NA	NA	NA	NA	10 U
Anthracene	120-12-7	2100		25 U	NA	NA	NA	NA	NA	10 U
Benzo(a)Anthracene	56-55-3	0.2		25 U	NA	NA	NA	NA	NA	10 U
Benzo(a)Pyrene	50-32-8	0.2		25 U	NA	NA	NA	NA	NA	10 U
Benzo(b)Fluoranthene	205-99-2	0.2		25 U	NA	NA	NA	NA	NA	10 U
Benzo(g,h,i)Perylene	191-24-2	210		25 U	NA	NA	NA	NA	NA	10 U
Benzo(k)Fluoranthene	207-08-9	0.5		25 U	NA	NA	NA	NA	NA	10 U
Chrysene	218-01-9	4.8		25 U	NA	NA	NA	NA	NA	10 U
Dibenzo(a,h)Anthracene	53-70-3	0.2		25 U	NA	NA	NA	NA	NA	10 U
Fluoranthene	206-44-0	280		25 U	NA	NA	NA	NA	NA	10 U
Fluorene	86-73-7	280		25 U	NA	NA	NA	NA	NA	10 U
Indeno(1,2,3-cd)Pyrene	193-39-5	0.2		25 U	NA	NA	NA	NA	NA	10 U
Naphthalene	91-20-3	20		25 U	NA	NA	NA	NA	NA	10 U
Phenanthrene	85-01-8	210		25 U	NA	NA	NA	NA	NA	10 U
Pyrene	129-00-0	210		25 U	NA	NA	NA	NA	NA	10 U

TABLE 5

VALIDATED GROUNDWATER ANALYTICAL RESULTS - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION		Screening Criteria [a]		OLD-09-04	OLD-09-05	OLD-09-06	OLD-09-07	OLD-09-10	OLD-09-11	OLD-09-12
SAMPLE ID		Florida	NTC	NTC09G0412	NTC09G0512	NTC09G0612	NTC09G0712	NTC09G1012	NTC09G1112	NTC09G1212
LAB ID	CAS Number	GCTL[b]	BGSV[c]	A9J220158004	A9J230148001	A9J230148003	A9J260203001	A9J220158001	A9J210231003	A9J230148005
SAMPLE DATE				10/21/99	10/22/99	10/22/99	10/23/99	10/21/99	10/20/99	10/22/99
Pesticides (µg/L)										
4,4'-DDD	72-54-8	0.1		0.25 UJ	0.05 UR	0.033 R	0.05 U	0.05 U	0.05 UJ	0.25 U
4,4'-DDE	72-55-9	0.1		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 U	0.05 U	0.25 U
4,4'-DDT	50-29-3	0.1		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 UJ	0.05 U	0.25 U
Aldrin	309-00-2	0.005		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 U	0.05 U	0.25 U
alpha-BHC	319-84-6	0.2		0.25 U	0.05 UR	0.015 R	0.05 U	0.05 U	0.05 U	0.39
alpha-Chlordane[d]	5103-71-9	2		0.089 R	0.05 UR	0.05 UR	0.05 U	0.05 U	0.062 J	0.25 U
Beta-BHC	319-85-7	0.02		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 U	0.05 U	0.12 R
Delta-BHC	319-86-8	2.1		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 U	0.05 U	0.13 R
Dieldrin	60-57-1	0.005		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 U	0.05 U	0.25 U
Endosulfan	115-29-7	42		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 U	0.05 U	0.25 U
Endosulfan II[d]	33213-65-9	42		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 U	0.05 U	0.25 U
Endosulfan Sulfate	1031-07-8	*		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 U	0.05 U	0.25 U
Endrin	72-20-8	2		0.25 U	0.05 UR	0.05 UR	0.05 UJ	0.05 UJ	0.05 UJ	0.25 U
Endrin Aldehyde	7421-93-4	*		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 U	0.093 R	0.25 U
Endrin Ketone	53494-70-5	*		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 U	0.05 U	0.26 U
gamma-BHC (Lindane)	58-89-9	0.2		0.25 U	0.05 UR	0.013 R	0.05 U	0.05 UJ	0.057 J	0.46
gamma-Chlordane[d]	12789-03-6	2		0.25 R	0.05 UR	0.05 UR	0.05 U	0.05 U	0.054 R	0.26 U
Heptachlor	76-44-8	0.4		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 UJ	0.05 U	0.25 U
Heptachlor Epoxide	1024-57-3	0.2		0.25 U	0.05 UR	0.05 UR	0.05 U	0.05 UJ	0.05 U	0.25 U
Methoxychlor	72-43-5	40		0.5 UJ	0.093 R	0.1 UR	0.1 UJ	0.1 UJ	0.1 UJ	0.5 UJ
Toxaphene	8001-35-2	3		10 U	2 UR	2 UR	2 U	2 U	2 U	10 U
Herbicides (µg/L)										
2,4,5-TP (Silvex)	93-72-1	50		1 U	1 UR	1 U	1 U	1 U	1 U	1 U
2,4,5-T	93-76-5	70		1 U	1 UR	1 U	1 U	1 U	1 UJ	1 U
2,4-D	94-75-7	70		4 U	4 UR	4 U	4 U	4 U	4 U	4 U
2,4-DB	94-82-6	56		4 U	4 UR	4 U	4 U	4 U	4 U	4 U
Dalapon	75-99-0	200		2 U	9.1 U	10 U	2.4 U	3.1 U	11 U	5.9 U
Dicamba	1918-00-9	210		0.4 J	2 UR	2 U	2 U	2 U	2 U	2 U
Dichloroprop	120-36-5	35		4 U	4 UR	4 U	4 U	4 U	4 U	4 U
Dinoseb	88-85-7	7		0.6 U	0.6 UR	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
MCPA	94-74-6	3.5		400 U	400 UR	120 J	400 U	37 J	400 UJ	400 U
MCPP	7085-19-0	7		520	400 UR	400 U	550 R	400 U	400 UJ	400 U
Pentachlorophenol	87-86-5	1		0.06 J	0.1 UR	0.1 U	0.1 U	0.1 U	NA	0.1 U
Inorganics (µg/L)										
Aluminum	7429-90-5	200	4067	253	73.6 U	73.6 U	547	73.6 U	73.6 U	103
Antimony	7440-36-0	6	4.1	2.6 U	2.6 U	2.6 U	2.1 U	2.6 U	2.6 U	2.6 U
Arsenic	7440-38-2	50	5	650	101	94.1	2.3	2.7 U	44.9	53.8
Barium	7440-39-3	2000	31.4	9.5	28.1	27.2	6.4	24.8	10.5	22.4
Beryllium	7440-41-7	4	*	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
Cadmium	7440-43-9	5	5.6	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	7440-70-2	*	36830	30800	105000	72300	8760	81800	70800	81100
Chromium	7440-47-3	100	7.8	1.6 U	1.6 U	1.6 U	4.1 U	1.6 U	1.6 U	1.6 U
Cobalt	7440-48-4	420	*	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.83
Copper	7440-50-8	1000	5.4	3.2	1.1 U	1.1 U	4.1	1.1 U	1.1 U	1.7
Iron	7439-89-6	300	1227	1940	157	797	470	630	833	477
Lead	7439-92-1	15	4	1.5 U	1.5 U	1.5 U	1.4	1.5 U	1.9	1.5 U
Magnesium	7439-95-4	*	4560	1980	6580	2620	790	4640	3190	3990
Manganese	7439965	50	17	35.3	33.6	56.3	2.6 U	18.4	25.7	134
Mercury	7439-97-6	2	0.12	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	7440-02-0	100	*	1.5 U	1.3 U	1.7 U	1.8 U	2.1 U	1.3 U	3.3 U
Potassium	7440-09-7	*	5400	5550	4610	8440	895	3420	10200	5980
Selenium	7782-49-2	50	9.7	4.7 U	4.7 U	4.7 U	2.4 U	4.7 U	5.1 U	5.6 U
Silver	7440-22-4	100	*	1.6 U	1.6 U	1.6 U	0.9 U	1.6 U	1.6 U	1.6 U
Sodium	7440-23-5	160000	18222	678	2710	4140	1450	3380	6440	1370
Thallium	7440-28-0	2	3.8	1 UJ	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 UJ
Vanadium	7440-62-2	49	20.6	0.5 U	0.59	0.92	1.7	0.83	0.99	1.8
Zinc	7440-66-6	5000	4	15.8 U	9.6 U	13.2 U	33 J	83.1	28.6 U	18.5 U

TABLE 5

VALIDATED GROUNDWATER ANALYTICAL RESULTS - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION		Screening Criteria [a]		OLD-09-14	OLD-09-15	OLD-09-16	OLD-09-17	OLD-09-19
SAMPLE ID		Florida	NTC	NTC09G1412	NTC09G1512	NTC09G1612	NTC09G1712	NTC09G1912
LAB ID	CAS Number	GCTL[d]	BGSV[e]	A9J230148004	A9J230148002	A9J220158009	A9J260203002	A9J300126002
SAMPLE DATE				10/22/99	10/22/99	10/21/99	10/23/99	10/27/99
Semivolatiles (µg/L)								
1,2,4-Trichlorobenzene	120-82-1	70		10 U	10 U	NA	NA	10 U
1,2-Dichlorobenzene	95-50-1	600		10 U	10 U	NA	NA	10 U
1,3-Dichlorobenzene	541-73-1	10		10 U	10 U	NA	NA	10 U
1,4-Dichlorobenzene	106-46-7	75		10 U	10 U	NA	NA	10 U
2,2'-Oxybis (1-Chloropropane)	108-60-1	10		NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	4		10 U	10 U	NA	NA	10 U
2,4,6-Trichlorophenol	88-06-2	3.2		10 U	10 U	NA	NA	10 U
2,4-Dichlorophenol	120-83-2	0.5		10 U	10 U	NA	NA	10 U
2,4-Dimethylphenol	105-67-9	140		10 U	10 U	NA	NA	10 U
2,4-Dinitrophenol	51-28-5	14		25 U	25 U	NA	NA	25 U
2,4-Dinitrotoluene	121-14-2	0.1		10 U	10 U	NA	NA	10 U
2,6-Dinitrotoluene	606-20-2	0.1		10 U	10 U	NA	NA	10 U
2-Chloronaphthalene	91-58-7	560		10 U	10 U	NA	NA	10 U
2-Chlorophenol	95-57-8	35		10 U	10 U	NA	NA	10 U
2-Methylnaphthalene	91-57-6	20		NA	NA	NA	NA	10 U
2-Methylphenol	95-48-7	35		10 U	10 U	NA	NA	10 U
2-Nitroaniline	88-74-4	50		25 U	25 U	NA	NA	25 U
2-Nitrophenol	88-75-5	*		10 U	10 U	NA	NA	10 U
3,3'-Dichlorobenzidine	91-94-1	12		10 U	10 U	NA	NA	10 UR
3-Nitroaniline	99-09-2	50		25 U	25 U	NA	NA	25 U
4,6-Dinitro-2-Methylphenol	534-52-1	*		25 U	25 U	NA	NA	25 U
4-Bromophenyl Phenyl Ether	101-55-3	406		10 U	10 U	NA	NA	10 U
4-Chloro-3-Methylphenol	59-50-7	63		10 U	10 U	NA	NA	10 U
4-Chloroaniline	106-47-8	28		10 U	10 U	NA	NA	10 UR
4-Chlorophenyl Phenyl Ether	7005-72-3	*		10 U	10 U	NA	NA	10 U
4-Methylphenol	106-44-5	4		10 U	10 U	NA	NA	10 U
4-Nitroaniline	100-01-6	21		25 U	25 U	NA	NA	25 UJ
4-Nitrophenol	100-02-7	56		25 U	25 U	NA	NA	25 U
Bis(2-Chloroethoxy)Methane	111-91-1	*		10 U	10 U	NA	NA	10 U
Bis(2-Chloroethyl)Ether	111-44-4	4		10 U	10 U	NA	NA	10 U
Bis(2-Chloroisopropyl)Ether	108-60-1	10		10 U	10 U	NA	NA	10 U
Bis(2-Ethylhexyl)Phthalate	117-81-7	6		10 U	10 U	NA	NA	10 U
Butylbenzyl Phthalate	85-68-7	140		10 U	10 U	NA	NA	10 U
Carbazole	86-74-8	4		10 U	10 U	NA	NA	10 U
Di-N-Butyl Phthalate	84-74-2	700		10 U	10 U	NA	NA	10 U
Di-N-Octyl Phthalate	117-84-0	140		10 U	10 U	NA	NA	10 U
Dibenzofuran	132-64-9	28		10 U	10 U	NA	NA	10 U
Diethyl Phthalate	84-66-2	5600		10 U	10 U	NA	NA	10 U
Dimethyl Phthalate	131-11-3	70000		10 U	10 U	NA	NA	10 U
Hexachlorobenzene	118-74-1	1		10 U	10 U	NA	NA	10 U
Hexachlorobutadiene	87-68-3	0.5		10 U	10 U	NA	NA	10 U
Hexachlorocyclopentadiene	77-47-4	50		10 U	10 U	NA	NA	10 U
Hexachloroethane	67-72-1	2.5		10 U	10 U	NA	NA	10 U
Isophorone	78-59-1	37		10 U	10 U	NA	NA	10 U
N-Nitroso-Di-N-Propylamine	621-64-7	4		10 U	10 U	NA	NA	10 U
N-Nitrosodiphenylamine	86-30-6	7.1		10 U	10 U	NA	NA	10 U
Nitrobenzene	98-95-3	4		10 U	10 U	NA	NA	10 U
Pentachlorophenol	87-86-5	1		25 U	25 U	NA	NA	25 U
Phenol	108-95-2	10		10 U	10 U	NA	NA	10 U
PAHs (µg/L)								
1-Methylnaphthalene	90-12-0	20		NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	20		10 U	10 U	NA	NA	10 U
Acenaphthene	83-32-9	20		10 U	10 U	NA	NA	10 U
Acenaphthylene	208-96-8	210		10 U	10 U	NA	NA	10 U
Anthracene	120-12-7	2100		10 U	10 U	NA	NA	10 U
Benzo(a)Anthracene	56-55-3	0.2		10 U	10 U	NA	NA	10 U
Benzo(a)Pyrene	50-32-8	0.2		10 U	10 U	NA	NA	10 U
Benzo(b)Fluoranthene	205-99-2	0.2		10 U	10 U	NA	NA	10 U
Benzo(g,h,i)Perylene	191-24-2	210		10 U	10 U	NA	NA	10 U
Benzo(k)Fluoranthene	207-08-9	0.5		10 U	10 U	NA	NA	10 U
Chrysene	218-01-9	4.8		10 U	10 U	NA	NA	10 U
Dibenzo(a,h)Anthracene	53-70-3	0.2		10 U	10 U	NA	NA	10 U
Fluoranthene	206-44-0	280		10 U	10 U	NA	NA	10 U
Fluorene	86-73-7	280		10 U	10 U	NA	NA	10 U
Indeno(1,2,3-cd)Pyrene	193-39-5	0.2		10 U	10 U	NA	NA	10 U
Naphthalene	91-20-3	20		4.8 J	8 J	NA	NA	10 U
Phenanthrene	85-01-8	210		10 U	10 U	NA	NA	10 U
Pyrene	129-00-0	210		10 U	10 U	NA	NA	10 U

TABLE 5

VALIDATED GROUNDWATER ANALYTICAL RESULTS - OCTOBER 1999
OPERABLE UNIT 3 - STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

WELL DESIGNATION		Screening Criteria [a]		OLD-09-14	OLD-09-15	OLD-09-16	OLD-09-17	OLD-09-19
SAMPLE ID		Florida	NTC	NTC09G1412	NTC09G1512	NTC09G1612	NTC09G1712	NTC09G1912
LAB ID	CAS Number	GCTL[b]	BGSV[c]	A9J230148004	A9J230148002	A9J220158009	A9J260203002	A9J300126002
SAMPLE DATE				10/22/99	10/22/99	10/21/99	10/23/99	10/27/99
Pesticides (µg/L)								
4,4'-DDD	72-54-8	0.1		0.25 U	0.06 R	0.25 U	0.05 U	NA
4,4'-DDE	72-55-9	0.1		0.25 U	0.05 UR	0.25 U	0.05 U	NA
4,4'-DDT	50-29-3	0.1		0.25 U	0.05 UR	0.25 U	0.05 U	NA
Aldrin	309-00-2	0.005		0.25 U	0.05 UR	0.25 U	0.05 U	NA
alpha-BHC	319-84-6	0.2		0.25 U	0.05 UR	0.25 U	0.05 U	NA
alpha-Chlordane[d]	5103-71-9	2		0.25 U	0.05 UR	0.25 U	0.05 U	NA
Beta-BHC	319-85-7	0.02		0.25 U	0.05 UR	0.092 R	0.05 U	NA
Delta-BHC	319-86-8	2.1		0.25 U	0.05 UR	0.25 U	0.05 U	NA
Dieldrin	60-57-1	0.005		0.25 U	0.05 UR	0.25 U	0.05 U	NA
Endosulfan	115-29-7	42		0.25 U	0.05 UR	0.25 U	0.05 U	NA
Endosulfan II[d]	33213-65-9	42		0.25 U	0.05 UR	0.25 U	0.05 U	NA
Endosulfan Sulfate	1031-07-8	*		0.25 U	0.05 UR	0.25 U	0.05 U	NA
Endrin	72-20-8	2		0.25 U	0.05 UR	0.25 U	0.05 UJ	NA
Endrin Aldehyde	7421-93-4	*		0.25 U	0.05 UR	0.25 U	0.05 U	NA
Endrin Ketone	53494-70-5	*		0.25 U	0.05 UR	0.25 U	0.05 U	NA
gamma-BHC (Lindane)	58-89-9	0.2		0.25 U	0.05 UR	0.25 U	0.05 U	NA
gamma-Chlordane[d]	12789-03-6	2		0.25 U	0.05 UR	0.25 U	0.05 U	NA
Heptachlor	76-44-8	0.4		0.25 U	0.05 UR	0.25 U	0.05 U	NA
Heptachlor Epoxide	1024-57-3	0.2		0.25 U	0.05 UR	0.25 U	0.05 U	NA
Methoxychlor	72-43-5	40		0.5 UJ	0.1 UR	0.5 UJ	0.1 UJ	NA
Toxaphene	8001-35-2	3		10 U	2 UR	10 U	2 U	NA
Herbicides (µg/L)								
2,4,5-TP (Silvex)	93-72-1	50		1 U	1 U	1 U	1 U	1 U
2,4,5-T	93-76-5	70		1 U	1 U	1 U	1 U	1 UJ
2,4-D	94-75-7	70		4 U	4 U	4 U	4 U	4 UJ
2,4-DB	94-82-6	56		4 U	4 U	4 U	4 U	4 U
Dalapon	75-99-0	200		2 U	12 U	2 U	3.7 U	2 U
Dicamba	1918-00-9	210		2 U	2 U	2 U	2 U	2 U
Dichloroprop	120-36-5	35		4 U	4 U	4 U	4 U	4 U
Dinoseb	88-85-7	7		0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
MCPA	94-74-6	3.5		400 U	400 U	33 J	400 U	400 U
MCPP	7085-19-0	7		400 U	400 U	96 R	74 J	400 U
Pentachlorophenol	87-86-5	1		0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Inorganics (µg/L)								
Aluminum	7429-90-5	200	4067	509	421	309	80.2 U	402
Antimony	7440-36-0	6	4.1	2.6 U	2.6 U	2.6 U	2.1 U	2.2 U
Arsenic	7440-38-2	50	5	2.7 U	2.7 U	2.7 U	5.4	2.3 U
Barium	7440-39-3	2000	31.4	25.2	5.3	12.6	19.4	18.1 J
Beryllium	7440-41-7	4	*	0.32 U	0.3 U	0.3 U	0.3 U	0.1 U
Cadmium	7440-43-9	5	5.6	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Calcium	7440-70-2	*	36830	37600	363 U	4500	74000	29300
Chromium	7440-47-3	100	7.8	4.6	1.6 U	1.6 U	0.7 U	1.4
Cobalt	7440-48-4	420	*	0.7 U	0.7 U	0.7 U	0.7 U	0.6 U
Copper	7440-50-8	1000	5.4	1.1 U	1.1 U	1.1 U	1.8	2.1 U
Iron	7439-89-6	300	1227	786	312	572	17.6 U	645
Lead	7439-92-1	15	4	1.5 U	1.5 U	1.5 U	1.2 U	1.1 U
Magnesium	7439-95-4	*	4560	4000	602	990	821	3210
Manganese	7439965	50	17	120	4.7 U	30	2.8 U	37.9
Mercury	7439-97-6	2	0.12	0.1 U	0.1 U	0.1 U	0.1 U	0.11 U
Nickel	7440-02-0	100	*	3.9 U	3.2 U	1.5 U	1.3 U	1.7
Potassium	7440-09-7	*	5400	2340	64.7 U	693	554	1600
Selenium	7782-49-2	50	9.7	4.7 U	4.7 U	4.7 U	2.4 U	3.5 U
Silver	7440-22-4	100	*	1.6 U	1.6 U	1.6 U	0.9 U	0.6 U
Sodium	7440-23-5	160000	18222	16600	5650	8620	956 U	7080
Thallium	7440-28-0	2	3.8	1 UJ	1 UJ	1 UJ	1 U	0.93 UJ
Vanadium	7440-62-2	49	20.6	3.1	0.53	3.2	4.8	5.1
Zinc	7440-66-6	5000	4	25.1 U	10.9 U	15.8 U	14.5 U	8 U

TABLE 5

VALIDATED GROUNDWATER ANALYTICAL RESULTS – OCTOBER 1999
OPERABLE UNIT 3 – STUDY AREAS 8 AND 9

NAVAL TRAINING CENTER
ORLANDO, FLORIDA

Notes:

* indicates that the criteria or screening value not available.
"J" qualifier indicates an estimated value.
"U" qualifier indicates a non-detect.
"R" qualifier indicates rejected value.
NA Not analyzed.
Values in shaded cells are equal to or exceed the screening criteria.
Empty cells indicate analyte not analyzed for.

(a) For an organic analyte, the screening criterion is the GCTL; for an inorganic analyte with an established GCTL and BGSV, the screening criterion is the greater of the GCTL or the BGSV.
(b) Groundwater Cleanup Target Level (Development of Soil Cleanup Target Levels (SCTLs) for Chapter 62-777, F.A.C., May 26, 1999)
(c) Background Screening Value (Background Sampling Report for NTC, Orlando, Florida; ABB Environmental Services, August 1995) for inorganics only.
(d) Screening Criteria Substitution – Chlordane for alpha-Chlordane and gamma-Chlordane, and Endosulfan for Endosulfan II.

ATTACHMENT A

GROUNDWATER SAMPLE LOG SHEETS

GROUNDWATER PURGING AND SAMPLING LOG

Date 101999

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTL086 01 12
Sample Location: S.4 8
Sampled By: KJM GLS
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1435	6.41	335.0	27.35	4.27	0.97	24.3	.86	100
2	0.163	1440	6.28	333.0	27.69	3.15	0.52	27.0	.86	100
3	0.367	1445	6.25	334.0	28.00	3.99	0.54	26.6	.86	100
4	0.653	1450	6.26	333.0	27.75	3.20	0.56	25.6	.86	100
5	1.020									
6	1.469									
8	2.611									
10	4.080									

Well Casing Diameter: 2"
Total Well Depth (TD): 12.45
Static Water Level (WL): .85
One Casing Volume(gal/L):
[3.78gals/L]
Start Purge (hrs): 1435
End Purge (hrs): 1450
Total Purge Time (min): 15 min
Total Vol. Purged (gal/L): 1.5 gl.

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 101999									
Time: 1455	Clear	6.27	333.0	27.70	3.1	0.56	25.9	.86	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TAL inorganics	HNO3	1 Lt. Plastic	101999
~~Gross Alpha/Gross Beta/Total Radium/Radium226~~	~~HNO3 (pH<2)~~	~~1-2 gal plastic container~~	

ADDITIONAL INFORMATION

OVA Reading (ppm): 0 ppm

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): [illegible]

Date 10/19/99

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTL0860212
Sample Location: 02D0802
Sampled By: SM/SK
C.O.C. No.: ~~53445~~ 53422

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1430	6.58	474	28.36	2.88	4.03	-90.5	1.19	100
2	0.163	1435	6.51	469	28.09	2.69	3.66	-115.5	1.19	100
3	0.367	1440	6.49	468	28.01	2.64	3.56	-125.9	1.15	100
4	0.653	1445	6.49	467	28.51	1.79	3.67	-138.3	1.15	100
5	1.020	1450	6.48	467	28.09	3.26	3.53	-148.7	1.15	100
6	1.469	1455	6.47	465	28.13	2.03	3.57	-159.3	1.15	100
8	2.611	1500	6.48	465	28.71	1.70	4.13	-166.0	1.15	100
10	4.080	1505	6.47	465	28.41	1.94	4.11	-169.0	1.15	100
		1510	6.47	465	28.22	2.34	4.09	-170.0	1.15	100

Well Casing Diameter: 2"
Total Well Depth (TD): 12.38
Static Water Level (WL): 1.19
One Casing Volume(~~gal~~/L): 6.9

[3.78gals/L]

Start Purge (hrs): 1430
End Purge (hrs): 1510
Total Purge Time (min): 40
Total Vol. Purged (~~gal~~/L): 9

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/19/99									
Time: 1510	Clear	6.47	465	28.22	2.34	4.09	-170.0	1.15	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	~~HNO3 (pH < 2)~~	~~1 - 1 gal plastic cubitainer~~	
TAL Inorganics	HNO3	1 1L Plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 PPM

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER PURGING AND SAMPLING LOG

Date 101999

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC08G0312
Sample Location:
Sampled By:
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1550	5.90	528.0	27.54	8.04	1.33	77.9	.89	100
2	0.163	1555	5.93	532.0	27.43	5.72	1.26	76.9	.89	100
3	0.367	1600	5.93	539.0	27.39	5.18	1.09	77.9	.89	100
4	0.653	1605	5.93	546.0	27.38	2.46	1.06	79.3	.89	100
5	1.020	1610	5.92	550.0	27.49	2.12	.82	79.5	.89	100
6	1.469	1615	5.92	550.0	27.56	2.17	.80	80.6	.89	100
8	2.611	1620	5.92	550.0	27.54	2.32	.80	80.5	.89	100
10	4.080									

Well Casing Diameter: 2" PVC
Total Well Depth (TD): 13.40
Static Water Level (WL): .83
One Casing Volume(gal/L): 2.1(g)
[3.78gals/L]
Start Purge (hrs): 1550
End Purge (hrs): 1620
Total Purge Time (min): 30 min
Total Vol. Purged (gal/L): 3.0 Lt.

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 101999									
Time: 1625	clear	5.92	550	27.53	2.31	.80	80.6	.89	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TAL INORGANICS	HNO3	1-1Lt PLASTIC	101999
Gross Alpha/Gross Beta/Total Uranium/Radium 226	HNO3 (pH < 2)	1 - 1 gal plastic cubitainer	

ADDITIONAL INFORMATION

OVA Reading (ppm):

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): Kevin Mangelli

GROUNDWATER PURGING AND SAMPLING LOG

Date 10 1999

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC08G0412
Sample Location: Site 8
Sampled By: KSM / LS
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1505	5.83	448.0	27.54	2.61	1.14	63.0	.81	100
2	0.163	1510	5.80	450.0	27.64	2.66	0.75	70.0	.81	100
3	0.367	1515	5.80	446.0	27.68	2.75	0.65	73.5	.81	100
4	0.653	1520	5.70	442.0	27.67	2.63	0.62	77.8	.81	100
5	1.020	1525	5.80	438.0	27.69	2.79	0.52	81.4	.81	100
6	1.469	1530	5.79	431.0	27.69	2.89	0.54	83.0	.81	100
8	2.611	1533	5.79	429.0	27.86	2.86	0.51	83.1	.81	100
10	4.080		✓	✓	✓	✓	✓	✓		

Well Casing Diameter: 2" PVC
Total Well Depth (TD): 13.02
Static Water Level (WL): .74
One Casing Volume(gal/L): .209
[3.78gals/L]
Start Purge (hrs): 1505
End Purge (hrs): 1533
Total Purge Time (min): 28 min
Total Vol. Purged (gal/L): 2.8 L

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 101999									
Time: 1535	clear	5.80	429.0	27.88	2.80	0.52	83.0	.81	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TAL INORGANIC			101999
~~[illegible]~~	~~HNO3 (pH<2)~~	~~1 L plastic container~~	

ADDITIONAL INFORMATION

OVA Reading (ppm): 0 ppm

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Date 102199

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC08G0512
Sample Location:
Sampled By:
C.O.C. No.:

* Duplicate collected on this well
* MS/MSD collected

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1300	5.68	76.00	25.64	6.8	3.56	74.2	~~0.80~~	100
2	0.163	1305	5.41	93.00	25.12	7.3	1.49	73.7	~~0.80~~	100
3	0.367	1310	5.41	95.00	25.05	4.0	1.29	63.7	~~0.80~~	100
4	0.653	1315	5.43	96.00	25.15	2.2	1.11	57.4	~~0.80~~	100
5	1.020	1320	5.43	97.00	25.25	2.2	1.07	55.6	~~0.80~~	100
6	1.469	1325	5.43	98.00	25.19	2.0	0.96	52.9	~~0.80~~	100
8	2.611	1330	5.42	98.00	25.08	2.0	0.88	50.2	~~0.80~~	100
10	4.080	1335	5.42	99.00	25.04	1.8	0.86	48.2	~~0.80~~	100
		1340	5.41	99.00	25.00	2.1	0.79	44.6	~~0.80~~	100
		1345	5.41	99.00	24.88	2.1	0.82	43.9	~~0.80~~	100
		1348	5.41	99.00	24.94	2.0	0.79	43.0	~~0.80~~	100
		1351	5.41	99.00	24.81	1.6	0.73	42.5	~~0.80~~	100
Well Casing Diameter: 0.5		1354	5.41	99.00	24.75	1.5	0.71	42.0	~~0.80~~	100
Total Well Depth (TD): 9.53		1357	5.41	99.00	24.73	1.5	0.70	42.0	~~0.80~~	100
* Static Water Level (WL): 0.80		1400	5.41	99.00	24.72	1.3	0.70	41.5	~~0.80~~	100
One Casing Volume(gal/L):		0.8÷6								
[3.78gals/L]										
Start Purge (hrs): 1300										
End Purge (hrs):										
Total Purge Time (min): 60										
Total Vol. Purged (gal/L): 6.0L										

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 102199									
Time: 1400	Clear	5.41	99.00	24.71	1.3	0.71	41.8	0.80	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TAL Inorganic	HNO3	4-1Lt Plastic (+Dup + 2 MS/MSD = 4	102199

ADDITIONAL INFORMATION

OVA Reading (ppm): 0 ppm

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:

MS/MSD — Duplicate ID No.: NTC08G3000 / NTC08G0512 MS / NTC08G0512 MSD

Signature(s): [signature]

Date 10/19/99

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC08G0612
Sample Location: OLD0806
Sampled By: JM/JK
C.O.C. No.: 63422

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC *	Flow Rate ml/min
1	0.041	1615	6.32	192	29.02	11.7	0.97	-71.7	~~.62~~	100
2	0.163	1620	6.15	175	28.29	2.11	1.24	-72.9	~~.62~~	100
3	0.367	1625	6.15	174	28.33	1.81	1.24	-74.5	~~.62~~	100
4	0.653	1630	6.14	173	28.26	1.77	1.24	-74.5	~~.62~~	100
5	1.020		±0.1 ✓	±1.7 ✓	±1.4 ✓	x	✓	±3.6 ✓	<0.3 ✓	
6	1.469									
8	2.611									
10	4.080									

Well Casing Diameter: .085 .5 *
Total Well Depth (TD): 9.0
Static Water Level (WL): .62 *
One Casing Volume(gal/L): ~~1.3~~ 0.085 gals
[3.78gals/L]

Start Purge (hrs): 1615
End Purge (hrs): 1630
Total Purge Time (min): 15
Total Vol. Purged (gal/L): .4

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

100 / 1000 / 10

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/19/99									
Time: 1630	Clear	6.14	173	28.26	1.77	1.24	-74.5	0.62	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	~~HNO3 (pH < 2)~~	~~1 - 1 gal plastic cubitainer~~	
TAL Inorganics	HNO3	1 1L plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 PPM

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle If Applicable:

MS/MSD | Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER PURGING AND SAMPLING LOG

Date 101999

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: ~~[illegible]~~ NTC08G-02
Sample Location: 3.68
Sampled By: KJM / GLS
C.O.C. No.:

PURGING DATA *

Casing Size (in.)	Gals/Ft of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1325	6.35	584.0	28.11	6.47	.69	-37.0	~~9.45~~	100
2	0.163	1330	6.38	590.0	28.15	3.26	.52	-52.4	~~9.45~~	100
3	0.367	1335	6.36	592.0	28.27	2.84	.49	-58.2	~~9.45~~	100
4	0.653	1340	6.37	596.0	27.99	2.60	.51	-62.2	~~9.45~~	100
5	1.020	1345	6.37	592.0	27.79	2.19	.51	-64.3	~~9.45~~	100
6	1.469	1350	6.37	592.0	28.07	1.79	.38	-65.9	~~9.45~~	100
8	2.611	1355	6.36	593.0	27.81	1.68	.43	-68.0	~~9.45~~	100
10	4.080	1358	6.38	592.0	27.50	1.60	.38	-69.2	~~9.45~~	100
		1402	6.38	592.0	27.64	1.85	.53	-67.5	~~9.45~~	100
			✓	✓	✓	✓	✓	✓	✓	✓

Well Casing Diameter: 0.5
Total Well Depth (TD): 9.45
* Static Water Level (WL): .83
One Casing Volume (gal/L): ~~.45~~ 0.33 L

[3.78gals/L]

Start Purge (hrs): 1319
End Purge (hrs): 1402
Total Purge Time (min): 43 min
Total Vol. Purged (gal/L): 4.3 Lt.

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 101999									
Time: 1405	Clear	6.37	592.0	27.61	1.70	.43	-68.3	9.45	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TAL Organics	~~H_2SO_4~~ HNO3	1 Lt. Plastic	101999
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	~~HNO3 (pH < 2)~~	~~1-1 gal plastic cubitainer~~	
Herbicides 8151	None	2- 1Lt. Ambers	

ADDITIONAL INFORMATION

OVA Reading (ppm): 0 ppm

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): [signature]

GROUNDWATER PURGING AND SAMPLING LOG

Date 102199

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC086-1012
Sample Location: Site 8
Sampled By: KJm / GLS
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1050	4.25	282.0	24.45	5.3	1.86	-16.0	~~0.45~~	100
2	0.163	1055	6.25	283.0	24.65	3.6	1.75	-15.5	~~0.45~~	100
3	0.367	1100	6.28	287.0	24.64	2.0	1.51	-13.9	~~0.45~~	100
4	0.653	1105	6.31	289.0	24.70	1.0	1.26	-12.5	~~0.45~~	100
5	1.020	1110	6.32	289.0	24.65	0.8	1.14	-11.4	~~0.45~~	100
6	1.469	1115	6.33	289.0	24.66	0.75	1.09	-11.0	~~0.45~~	100
8	2.611	1118	6.53	288.0	24.68	0.70	1.07	-10.8	~~0.45~~	100
10	4.080	1121	6.33	289.0	24.67	0.65	1.06	-10.9	~~0.45~~	100
		1124	6.33	289.0	24.68	0.50	1.05	-10.9	~~0.45~~	100
			✓	✓	✓	*	✓	✓	✓	-

Well Casing Diameter: 0.5
Total Well Depth (TD): 9.43
* Static Water Level (WL): 0.45
One Casing Volume(gal/L): 0.35 L
[3.78gals/L]
Start Purge (hrs): 1050
End Purge (hrs): 1125
Total Purge Time (min): 35 min
Total Vol. Purged (gal/L): 3.5 Lt.

No +4°C

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 102199									
Time:	Clear	6.33	289.0	24.69	0.50	1.06	-10.8	0.45	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~GC/MS Volatiles/Semi Volatiles Organics 8260~~	~~HNO3 (pH<2)~~	~~2 x 40ml plastic container~~	
TAL INORGANIC	HNO3	1-1Lt Plastic	102199
Herbicides	NONE	2-1Lt. Ambers	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0 ppm

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): [illegible]

Date 10/19/99

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTL086~~11~~12
Sample Location: OLD081~~1~~
Sampled By: JM/SK
C.O.C. No.: ~~53445~~ 53442

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1530	6.35	227	27.50	15.2	1.94	-181.8	~~.45~~	100
2	0.163	1535	6.25	213	27.67	7.49	1.68	-218.4	~~.45~~	100
3	0.367	1540	6.25	212	27.75	4.59	1.76	-226.2	~~.45~~	100
4	0.653	1550	6.24	[illegible]	27.96	2.98	1.80	-230.3	~~.45~~	100
5	1.020		✓	212 ✓	✓					
6	1.469									
8	2.611									
10	4.080									

Well Casing Diameter: .05
Total Well Depth (TD): 9.65
* Static Water Level (WL): .45
One Casing Volume ~~(gal/L)~~: ~~1.452~~ 0.4 L

[3.78gals/L]

Start Purge (hrs): 1530
End Purge (hrs): 1550
Total Purge Time (min): 20
Total Vol. Purged ~~(gal/L)~~: ~~.4~~ 2 L

NO
+9.6
+10

*Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/19/99									
Time: 1550	Clear	6.24	212	27.96	2.98	1.80	-230.3	.45	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	~~HNO3 (pH < 2)~~	~~1 - 1 gal plastic cubitainer~~	
HAPs/Pesticides (8151)	N/A	2 1 L Glass	✓
THL (Inorganics)	HNO3	1 1 L Plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 PPM

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): S Kelly

GROUNDWATER PURGING AND SAMPLING LOG

Date 102199

Project Site Name: NTC Orlando
Project No.: CTO 0024

Sample ID No.: NTCORG1312
Sample Location: Site 8
Sampled By: VSM / GLS
C.O.C. No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

* stop purge @ Beginning. DO probe membrane needs replacing.

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	0900	5.88	191.0	23.29		17.31	Stop purge		
2	0.163	0950	5.49	167.0	22.40	47.9	5.70	43.3	~~3.84~~	100
3	0.367	0955	5.34	166.0	23.21	21.2	2.95	13.5	~~3.84~~	100
4	0.653	1000	5.25	144.00	23.27	12.0	1.70	-0.5	~~3.84~~	100
5	1.020	1005	5.23	144.0	23.40	10.7	1.68	-0.7	~~3.84~~	100
6	1.469	1010	5.22	143.0	23.41	8.7	1.66	-1.1	~~3.84~~	100
8	2.611	1015	5.20	143.0	23.48	7.1	1.58	-1.6	~~3.84~~	100
10	4.080	1018	5.20	142.0	23.60	6.8	1.55	-2.6	~~3.84~~	100
		1022	5.20	140.0	23.70	6.1	1.54	-3.2	~~3.84~~	100
		1025	5.20	139.0	23.67	5.2	1.52	-3.8	~~3.84~~	100
		1028	5.19	139.0	23.69	5.2	1.51	-3.3	~~3.84~~	100
		1031	5.19	138.0	23.74	4.9	1.50	-3.4	~~3.84~~	100
Well Casing Diameter: 0.5		1034	5.19	138.0	23.72	4.7	1.50	-3.5	~~3.84~~	100
Total Well Depth (TD): 10.95										
* Static Water Level (WL): 3.43										
One Casing Volume(gal/L):		0.296								
[3.78gals/L]										
Start Purge (hrs): ~~0900~~ 950										
End Purge (hrs): 1035										
Total Purge Time (min): 45 min										
Total Vol. Purged (gal/L): 4.54										

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 102199									
Time: 1035	Clear	5.19	138.6	23.70	4.7	1.50	-3.4	3.81	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TAL INORGANICS	HNO3	1-1Lt Plastic	102199
Gross Alpha/Gross Beta/Total Uranium/Radium 226	HNO3 (pH < 2)	1 - 1 gal plastic cubitainer	

ADDITIONAL INFORMATION

OVA Reading (ppm): 0 ppm

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): [illegible]

Date 102099

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC 086-1412
Sample Location: Site 8
Sampled By: KSM / JGS
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/Ft of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1618	4.66	317.0	25.61	7.11	1.40	101.5	~~4.50~~	100
2	0.163	1620	4.62	314.0	25.74	7.08	1.44	99.5	~~4.50~~	100
3	0.367	1625	4.63	314.0	25.58	5.49	1.45	95.6	~~4.50~~	100
4	0.653	1630	4.65	311.0	25.20	5.11	1.48	92.2	~~4.50~~	100
5	1.020		✓	✓	✓	x				
6	1.469									
8	2.611									
10	4.080									

Well Casing Diameter: 0.5
Total Well Depth (TD): 10.95
* Static Water Level (WL): 4.55
One Casing Volume(gal/L): 0.2L
[3.78gals/L]
Start Purge (hrs): 1615
End Purge (hrs): 1630
Total Purge Time (min): 15 min
Total Vol. Purged (gal/L): 1.5 ct.

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 102099									
Time: 1630	Amber	4.67	310.0	25.27	4.9	1.48	92.0	4.50	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TAL INORGANICS	HNO3	1-1Lt. Plastic	1020
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	~~HNO3 (pH < 2)~~	~~1-1 gal plastic cubitainer~~	
Herbicides	None	2-1Lt Amber	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0 ppm

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

GROUNDWATER PURGING AND SAMPLING LOG

Date 102099

Project Site Name: NTC Orlando
Project No.: CTO 0024

Sample ID No.: NTC 0806 15 12
Sample Location: Site 8
Sampled By: KSM / GLS
C.O.C. No.:

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

*Note: Collected sample w/High Turbidity Readings as per Mike Crumbell

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	0945	4.76	283.0	25.38	59.6	1.20	83.5		100
2	0.163	0950	4.57	285.0	25.51	65.6	0.86	87.1		100
3	0.367	0955	4.52	283.0	25.44	67.9	0.87	87.6		100
4	0.653	~~0100~~ 1005	4.49	276.0	25.54	78.9	0.78	87.4		100
5	1.020	1015	4.46	272.0	25.52	86.6	0.58	87.7		100
6	1.469	1025	4.43	269.0	25.55	92.7	0.51	87.2		100
8	2.611	1035	4.40	266.0	25.57	94.2	0.45	86.8		100
10	4.080	1040	4.42	265.0	25.42	96.4	0.36	85.3		100
		1045	4.43	264.0	25.35	98.1	0.36	85.0		100

Well Casing Diameter: 0.5
Total Well Depth (TD): 10.87
Static Water Level (WL): 3.83
One Casing Volume(gal/L): 0.2L
[3.78gals/L]
Start Purge (hrs): 0940
End Purge (hrs): 1045
Total Purge Time (min): 65 min
Total Vol. Purged (gal/L): 6.5 L

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 102099									
Time: 1045	Lt. Amber	4.42	264.0	25.37	99.6	0.37	85.1		100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TAL INORGANICS	HNO3	1- 1Lt Plastic	102099
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	~~HNO3 (pH<2)~~	~~2-1L poly plastic cubitainer~~	
Herbicides	NONE	2- 1Lt. Ambers	

ADDITIONAL INFORMATION

OVA Reading (ppm): 0 ppm

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:

MS/MSD | Duplicate ID No.:

Signature(s):

Date 10/19/99

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC08G17L2
Sample Location: 010 0817
Sampled By: JM/JK
C.O.C. No.: ~~53415~~ 53422

PURGING DATA *

Casing Size (in.)	Gals/Ft of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1325	6.62	410	27.47	3.40	2.81	188.5	~~0.55~~	100
2	0.163	1330	6.66	477	27.05	1.53	2.73	60.1	~~0.55~~	100
3	0.367	1333	6.68	481	27.26	0.94	2.66	16.9	~~0.55~~	100
4	0.653	1337	6.69	478	27.99	1.07	2.80	-39.1	~~0.55~~	100
5	1.020	1342	6.69	476	27.44	0.78	2.78	-61.4	~~0.55~~	100
6	1.469	1347	6.69	476	27.71	1.03	2.68	-64.0	~~0.55~~	100
8	2.611	1352	6.69	478	28.09	0.56	2.92	-81.6	~~0.55~~	100
10	4.080	1357	6.69	477	27.42	0.53	2.64	-101.8	~~0.55~~	100
11		1402	6.69	477	27.37	0.66	2.65	-105.4	~~0.55~~	100
12		1407	6.69	477	27.79	0.70	2.61	-108.5	~~0.55~~	100
13										
14										

Well Casing Diameter: 0.5
Total Well Depth (TD): 9.25
* Static Water Level (WL): 0.55
One Casing Volume(gal/L): 1.35 0.34 L
[3.78gals/L]
Start Purge (hrs): 1325
End Purge (hrs): 1407
Total Purge Time (min): 42
Total Vol. Purged (gal/L): 1 4.2 L

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/19/99									
Time: 1407	Clear	6.69	477	27.99	0.70	2.61	-108.5	0.55	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	~~HNO3 (pH < 2)~~	~~1 - 1 gal plastic cubitainer~~	
Metals (TAL Inorganic)	HNO3	1 - Liter	yes

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 ppm

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): JM

GROUNDWATER PURGING AND SAMPLING LOG

Date 102099

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC086-1812
Sample Location: S.G. 8
Sampled By: KJM / GLS
C.O.C. No.:

PURGING DATA *

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1110	5.14	114.0	25.51	439.0	1.98	8.5	~~2.77~~	100
2	0.163	1115	5.17	94.00	25.25	396.0	1.34	5.0	~~2.77~~	100
3	0.367	1125	5.12	91.00	25.38	53.9	0.93	-2.0	~~2.77~~	100
4	0.653	1130	5.15	91.00	25.50	24.0	0.80	-4.5	~~2.77~~	100
5	1.020	1135	5.16	90.00	26.00	15.1	0.93	-2.9	~~2.77~~	100
6	1.469	1140	5.14	90.00	26.04	12.6	0.69	-4.0	~~2.77~~	100
8	2.611	1145	5.15	90.00	26.13	11.2	0.72	-6.8	~~2.77~~	100
10	4.080	1148	5.14	89.00	26.06	10.3	0.61	-6.8	~~2.77~~	100
		1152	5.14	89.00	25.97	9.2	0.63	-7.6	~~2.77~~	100
		1155	5.12	89.00	25.77	9.0	0.61	-6.4	~~2.77~~	100
		1158	5.11	89.00	25.96	8.7	0.50	-7.0	~~2.77~~	100
		1201	5.13	88.00	26.17	8.0	0.60	-7.8	~~2.77~~	100
Well Casing Diameter: 0.5		1204	5.12	88.00	26.22	7.8	0.51	-7.7	~~2.77~~	100
Total Well Depth (TD): 13.93						x				
* Static Water Level (WL): 2.77										
One Casing Volume(gal/L): 0.4-L										
[3.78 gals/L]										
Start Purge (hrs): 1105										
End Purge (hrs): 1204										
Total Purge Time (min): 59 min										
Total Vol. Purged (gal/L): 5.74										

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 102099									
Time: 1205	Clear	5.12	88.00	26.24	7.0	0.55	-7.6	2.77	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
TAL Inorganics	HNO3	1 - 1Lt Plastic	102099
Gross Alpha/Gross Beta/Total Uranium/Radium 226	HNO3 (pH < 2)	1 - 1 gal plastic cubitainer	
Herbicides	None	2 - 1Lt Amber	

ADDITIONAL INFORMATION

OVA Reading (ppm): 0 ppm

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

Date 10/21/99

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC096 0112
Sample Location: OU0401
Sampled By: SK/JM
C.O.C. No.: 53417

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1035	6.55	448	25.71	2.52	5.51	-51.9	1.11	100
2	0.163	1040	6.45	462	25.41	2.62	5.65	-88.2	1.11	100
3	0.367	1045	6.44	460	25.25	2.08	5.57	-96.8	1.11	100
4	0.653	1050	6.44	458	25.38	1.59	5.54	-91.8	1.11	100
5	1.020	1055	6.44	455	25.61	2.31	5.46	-95.7	1.11	100
6	1.469	1105	6.43	452	25.51	2.01	5.77	-107.2	1.11	100
8	2.611	1110	6.43	451	25.48	2.74	5.75	-108.7	1.11	100
10	4.080	1115	6.43	447	25.49	1.21	5.31	-97.4	1.11	100
		1120	6.43	446	25.52	1.22	5.28	-98.4	1.11	100
		1125	6.42	446	25.50	1.33	5.57	-108.5	1.11	100
		1130	6.42	445	25.33	1.84	5.53	-119.2	1.11	100
		1135	6.42	443	25.32	1.31	5.31	-118.6	1.11	100
Well Casing Diameter: 2"		1140	6.42	442	25.32	1.40	5.17	-124.9	1.11	100
Total Well Depth (TD): 13.5		1145	6.42	441	25.37	1.53	5.21	-123.7	1.11	100
Static Water Level (WL): 1.11		1150	6.42	441	25.40	1.86	5.25	-123.4	1.11	100
One Casing Volume(gal/L): 7.64			✓	✓	✓	✓	✓	✓		
[3.78gals/L]										
Start Purge (hrs): 1035										
End Purge (hrs): 1150										
Total Purge Time (min): 75										
Total Vol. Purged (~~gal~~/L): 1.5										

NO tubs

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/21/99									
Time: 1150	Clear	6.42	441	25.40	1.86	5.25	-123.4	1.11	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
Gross Alpha/Gross Beta/Total Uranium/Radium 226	HNO3 (pH < 2)	1 - 1 gal plastic cubitainer	
Pesticides 8181	N/A	4 1L Glass	✓
Herbicides 8151	N/A	4 1L Glass	✓
TAL Inorganics	HNO3	2 1L Plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.00 PPM

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:

MS/MSD —

Duplicate ID No.: NTC096 D5000

Signature(s): [illegible]

GROUNDWATER PURGING AND SAMPLING LOG

Date 10-22-99

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTL091-0212
Sample Location: NTC - Orlando
Sampled By: Gary Sparks
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	15:30	4.83	66.00	26.62	17.7	2.32	100.9	3.56	100
2	0.163	15:35	4.60	65.00	26.58	17.2	0.92	126.3		100
3	0.367	15:40	4.51	65.00	26.59	17.2	.78	116.7		100
4	0.653	15:45	4.59	62.00	26.56	15.7	.97	111.5		100
5	1.020	15:50	4.58	63.00	26.63	20.0	.56	96.5		100
6	1.469	15:53	4.62	61.00	26.86	20.8	.51	89.0		100
8	2.611	15:56	4.64	62.00	26.77	21.2	.53	83.3		100
10	4.080	15:59	4.62	62.00	26.65	21.2	.51	82.9		100
		16:02	4.64	62.00	26.68	22.1	.51	81.1		100

Well Casing Diameter: 0.163 2"
Total Well Depth (TD): 12
Static Water Level (WL): 3.56
One Casing Volume(gal/L):
[3.78gals/L]
Start Purge (hrs): 15:30
End Purge (hrs): 16:02
Total Purge Time (min): 32
Total Vol. Purged (gal/L): 3.2

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10-22-99									
Time: 16:02	Clear	4.64	62.00	26.68	22.1	.51	81.1	3.56	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
Gross Alpha/Gross Beta/Total Uranium/Radium 226	HNO3 (pH < 2)	1 - 1 gal plastic cubitainer	
Herbicides		2 glass liters	✓
pesticides		2 glass liters	✓
TAL inorganics	Nitrite	1 plastic liter	✓

ADDITIONAL INFORMATION

OVA Reading (ppm):

Method:
[✓] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[✓] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): Gary Sparks

Date 10/26/99

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC09G0312
Sample Location: OLDG903
Sampled By: SK/SM
C.O.C. No.: 53421

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1045	5.63	131	28.18	2.52	2.48	6.3	4.6	100
2	0.163	1050	5.45	98	28.72	2.23	1.81	-39.3	4.6	100
3	0.367	1055	5.45	97	28.89	2.10	1.57	-42.3	4.6	100
4	0.653	1100	5.46	97	29.95	1.98	1.60	-50.9	4.6	100
5	1.020	1105	5.45	97	29.64	1.96	1.48	-58.7	4.6	100
6	1.469	1110	5.45	97	28.94	1.97	1.45	-68.2	4.6	100
8	2.611	1115	5.44	97	28.85	2.17	1.40	-72.6	4.6	100
10	4.080	1120	5.44	97	28.61	2.23	1.37	-74.5	4.6	100
		1125	5.43	97	28.17	2.01	1.39	-77.5	4.6	100
			✓	✓	✓	✓	✗	✓	✓	

Well Casing Diameter: 2"
Total Well Depth (TD): 12.0
Static Water Level (WL): 4.60
One Casing Volume(~~gal~~/L): 4.6
[3.78gals/L]
Start Purge (hrs): 1045
End Purge (hrs): 1125
Total Purge Time (min): 40
Total Vol. Purged (~~gal~~/L): .9

NO DO

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/26/99									
Time: 1125	Clear	5.43	97	28.17	2.01	1.39	-77.5	4.6	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	HNO3 (pH ≤ 2)	~~1 - 1 gal plastic cubitainer~~	
SVOCs (Method 8270)	N/A	2 1 L Amber Glass	✓
Pesticides (Method 8151)	N/A	2 1 L Amber "	✓
Herbicides (Method 8151)	N/A	2 1 L Amber "	✓
TAL Inorganics	HNO3	2 1 Liter Plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 PPM

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD —
Duplicate ID No.: NTC09D4000

Signature(s): S. Kilgore

GROUNDWATER PURGING AND SAMPLING LOG

Date 10/21/99

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC0960412
Sample Location: OLD0904
Sampled By: JKJM
C.O.C. No.: 53417

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1425	6.57	155	25.21	10.05	4.06	-89.9	2.68	100
2	0.163	1430	6.10	220	25.37	13.1	5.09	-95.8	2.68	100
3	0.367	1435	6.10	220	25.37	13.2	5.10	-111.2	2.68	100
4	0.653	1440	6.01	195	25.08	9.90	3.95	-115.0	2.68	100
5	1.020	1445	6.04	191	24.52	11.6	6.83	-99.1	2.68	100
6	1.469	1450	6.08	188	24.29	12.8	8.12	-89.4	2.68	100
8	2.611	1455	6.01	188	25.11	9.38	4.30	-103.4	2.68	100
10	4.080	1500	5.98	187	25.18	9.02	3.22	-124.7	2.68	100
		1505	5.97	185	25.05	8.92	3.02	-128.6	2.68	100
		1510	5.97	183	24.78	9.61	2.85	-127.9	2.68	100
		1515	5.97	183	24.66	10.72	2.70	-145.5	2.68	100
		1520	5.97	181	24.50	11.5	2.47	-157.8	2.68	100
Well Casing Diameter: 2"		1525	5.97	179	24.59	12.0	2.57	-162.3	2.68	100
Total Well Depth (TD): 12.0		1530	5.98	179	24.56	9.72	2.49	-164.0	2.68	100
Static Water Level (WL): 2.68										
One Casing Volume(gal/L): 5.75										
[3.78gals/L]										
Start Purge (hrs): 1425										
End Purge (hrs): 1530										
Total Purge Time (min): 65										
Total Vol. Purged (~~gal~~/L): 1.4										

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/21/99									
Time: 1530	clear	5.98	179	24.56	9.72	2.49	-164.0	2.68	100

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~		HNO3 (pH < 2)	1 - 1 gal plastic cubitainer	
SVOCs	8270	N/A	2 1 L Glass	✓
Pesticides	8081	N/A	2 1 L Glass	✓
Herbicides	8151	N/A	2 1 L Glass	✓
TAL Inorganics		HNO3	1 1 L Plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD —
Duplicate ID No.: —

Signature(s): J Kline

Date 10/22/99

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC09G0512
Sample Location: OLD0405
Sampled By: JK/JM
C.O.C. No.: 53420

PURGING DATA

Casing Size (in.)	Gals/Ft of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	* DTW ft BTOC	Flow Rate ml/min
1	0.041	1005	6.62	520	24.77	2.98	5.32	-70.0	~~0.85~~	100
2	0.163	1010	6.58	515	24.53	1.54	4.77	-64.6	~~0.85~~	100
3	0.367	1015	6.58	516	24.65	1.31	4.66	-137.4	~~0.85~~	100
4	0.653	1020	6.58	520	24.82	1.76	4.58	-145.0	~~0.85~~	100
5	1.020	1025	6.58	520	24.92	1.72	4.58	-145.8	~~0.85~~	100
6	1.469	1030	6.58	519	25.03	1.33	4.60	-146.9	~~0.85~~	100
8	2.611									
10	4.080									

Well Casing Diameter: 0.5
Total Well Depth (TD): 10
* Static Water Level (WL): 0.85
One Casing Volume(~~gal~~/L) ~~1.73~~ 1.72
[3.78gals/L]

Start Purge (hrs): 1005
End Purge (hrs): 1030
Total Purge Time (min): 25
Total Vol. Purged (~~gal~~/L): 16

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

4 turbs > 10?

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/22/99 Time: 1030	clear	6.58	519	25.03	1.33	4.60	-146.9	0.85	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
Gross ~~Alpha/Gross Beta/Total Uranium~~/Radium 226	~~HNO3 (pH < 2)~~	1 - 1 gal plastic cubitainer	
Pesticides 8081	N/A	2 - 1 L Glass	✓
Herbicides 8151	N/A	2 - 1 L Glass	✓
TAL metals	HNO3	1 - 1 L Plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 PPM

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD —
Duplicate ID No.: —

Signature(s): [illegible]

Date 10/22/99

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC0960612
Sample Location: OLD0906
Sampled By: SK/JM
C.O.C. No.: 52420

PURGING DATA *

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1105	6.60	342	26.04	19.8	3.85	-172.7	~~0.60~~	100
2	0.163	1110	6.41	381	25.78	14.9	3.38	-135.9	~~0.60~~	100
3	0.367	1115	6.39	388	25.97	7.93	2.69	-154.8	~~0.60~~	100
4	0.653	1120	6.38	386	24.86	3.85	2.73	-162.2	~~0.60~~	100
5	1.020	1125	6.38	385	25.05	3.18	2.80	-163.5	~~0.60~~	100
6	1.469	1130	6.38	385	25.04	3.15	2.78	-164.8	~~0.60~~	100
8	2.611	6.								
10	4.080									

Well Casing Diameter: 0.5
Total Well Depth (TD): 10
* Static Water Level (WL): 0.60
One Casing Volume ~~(gal/L)~~: 1.45
[3.78gals/L]
Start Purge (hrs): 1105
End Purge (hrs): 1130
Total Purge Time (min): 25
Total Vol. Purged ~~(Gal/L)~~: .6L

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/22									
Time: 1130									

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	~~HNO3 (pH < 2)~~	1 - 1 gal plastic cubitainer	
Pesticides	N/A	2 1L Glass	✓
Herbicides	N/A	2 1L Glass	✓
TAL Inorganics	HNO3	1 1L Plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 PPM

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD —
Duplicate ID No.: —

Signature(s): [signature]

Date 10-23-99

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC09G0712
Sample Location: OLD0907 Orlando
Sampled By: Gary Sparks
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/FL of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	13:45	4.95	57.00	26.33	6.70	2.54	179.9	NA	100
2	0.163	13:50	4.86	57.00	26.28	5.50	1.62	171.7		100
3	0.367	13:53	4.82	58.00	26.28	4.07	1.29	171.5		100
4	0.653	13:56	4.81	58.00	26.36	4.05	1.12	167.2		100
5	1.020	13:59	4.80	58.00	26.46	3.30	1.01	159.6		100
6	1.469	14:05	4.81	59.00	26.71	2.89	.98	155.5		100
8	2.611	14:08	4.81	59.00	26.76	3.46	.93	151.7		100
10	4.080	14:11	4.81	58.00	26.65	2.82	.90	150.6		100
		14:14	4.81	58.00	26.67	2.70	.87	149.5		100

Well Casing Diameter: 0.5
Total Well Depth (TD): 12.0
Static Water Level (WL): 2.12
One Casing Volume(gal/L):
[3.78 L/gal]
Start Purge (hrs): 13.45
End Purge (hrs): 14.14
Total Purge Time (min): 30
Total Vol. Purged (gal/L): 3.0

no turb > 10%

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10-23-99									
Time: 14:14	Clear	4.81	58.00	26.67	2.70	.87	149.5	~~2.10~~ NA GS	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
Herbicides		2 Glass Liters	✓
Pesticides		" "	✓
TAL Inorganics	Nitrite	1 Plastic Liter	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.00 ppm

Method:
[✓] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Baller

Tubing Type:
[ ] Polyethylene
[✓] Teflon
[ ] Teflon-lined Polyethylene

Circle If Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): Gary Sparks

GROUNDWATER PURGING AND SAMPLING LOG

Date 10/21/99

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC0961012
Sample Location: OU00910
Sampled By: JK/JM
C.O.C. No.: 53417

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	0910	6.21	390	24.12	16.4	0.86	59.6	~~0.91~~	100
2	0.163	0915	6.33	395	24.28	8.28	3.72	-2.4	~~0.91~~	100
3	0.367	0920	6.35	394	24.20	3.11	4.49	-64.2	~~0.91~~	100
4	0.653	0925	6.35	395	24.25	1.43	4.40	-80.3	~~0.91~~	100
5	1.020	0930	6.35	395	24.28	1.23	4.39	-82.2	~~0.91~~	100
6	1.469	0935	6.35	395	24.24	1.27	4.42	-86.3	~~0.91~~	100
8	2.611									
10	4.080									

Well Casing Diameter: 0.5
Total Well Depth (TD): 10
* Static Water Level (WL): 0.91
One Casing Volume ~~(gal/L)~~: 1.41
[3.78gals/L]
Start Purge (hrs): 0910
End Purge (hrs): 0935
Total Purge Time (min): 25
Total Vol. Purged ~~(gal/L)~~: .6

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

44671

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/21/99									
Time: 0935	clear	6.35	395	24.24	1.27	4.42	-86.3	0.91	100

SAMPLE COLLECTION INFORMATION

Analysis		Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~		~~HNO3 (pH < 2)~~	~~1 - 1 gal plastic cubitainer~~	
Pesticides	8181	N/A	2 1 L Glass	✓
Herbicides	8151	N/A	2 1 L Glass	✓
TAL Inorganics		HNO3	1 1 L Plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 PPM

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD —
Duplicate ID No.: —

Signature(s): J Kelly

Date 10/20/99

GROUNDWATER PURGING AND SAMPLING LOG

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC09G1112
Sample Location: OLD0911
Sampled By: JK/JM
C.O.C. No.: 53421

PURGING DATA *

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1620	6.44	395	28.41	7.60	2.07	-80.5	~~1.41~~	100
2	0.163	1625	6.46	400	28.20	2.29	2.62	-105.7	~~1.41~~	100
3	0.367	1630	6.48	401	28.48	1.97	2.79	-116.9	~~1.41~~	100
4	0.653	1635	6.50	401	28.57	1.39	2.92	-121.3	~~1.41~~	100
5	1.020	1640	6.50	401	28.60	1.39	2.85	-124.4	~~1.41~~	100
6	1.469	1645	6.51	400	28.78	1.36	2.83	-126.8	~~1.41~~	100
8	2.611									
10	4.080									

Well Casing Diameter: 0.5
Total Well Depth (TD): 10.0
* Static Water Level (WL): 1.41
One Casing Volume(~~gal~~/L): 1.3
[3.78gals/L]

Start Purge (hrs): 1620
End Purge (hrs): 1645
Total Purge Time (min): 25
Total Vol. Purged (~~gal~~/L): .6

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/20/99 Time: 1645	Clear	6.51	400	28.78	1.36	2.83	-126.8	1.41	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	~~HNO3 (pH < 2)~~	~~1 - 1 gal plastic cubicainer~~	
pesticides	N/A	2 1 L Glass	2
Herbicides	N/A	2 1 L Glass	2
TAL Inorganics	HNO3	1 1 L Plastic	1

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 PPM

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): J Kilgore

GROUNDWATER PURGING AND SAMPLING LOG

Date 10/22/99

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC0961212
Sample Location: OLD0912
Sampled By: SK/JM
C.O.C. No.: 53420

PURGING DATA *

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	1405	5.70	213	27.56	21.3	5.17	-17.6	~~1.32~~	100
2	0.163	1410	6.41	375	27.54	8.77	6.07	-46.2	~~1.32~~	100
3	0.367	1415	6.43	379	27.54	8.40	5.94	-46.4	~~1.32~~	100
4	0.653	1420	6.49	394	27.40	5.77	6.33	-50.5	~~1.32~~	100
5	1.020	1425	6.52	398	27.47	4.48	6.25	-52.3	~~1.32~~	100
6	1.469	1430	6.55	404	27.53	4.02	6.39	-55.1	~~1.32~~	100
8	2.611									
10	4.080									

Well Casing Diameter: 0.5
Total Well Depth (TD): 10
* Static Water Level (WL): 1.32
One Casing Volume (gal/L): 1.35

[3.78gals/L]

Start Purge (hrs): 1405
End Purge (hrs): 1430
Total Purge Time (min): 25
Total Vol. Purged (gal/L): 6

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/22/99									
Time: 1430	clear	6.55	404	27.53	4.02	6.39	-55.1	1.32	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	~~HNO3 (pH < 2)~~	~~1 - 1 gal plastic cubitainer~~	
SVOCs 8270		6 1L Glass	✓
Pesticides 8151		6 1L Glass	✓
Herbicides 8151		6 1L Glass	✓
TAL Inorganics		3 1L Plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 PPM

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s):

GROUNDWATER PURGING AND SAMPLING LOG

Date 12-22-99

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC09-1412
Sample Location: NTC - Orlando
Sampled By: [illegible]
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/Ft of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	14:05	6.00	293.00	23.86	3.28	1.89	-22.5	~~4.38~~	100
2	0.163	14:08	5.97	290.00	23.86	2.76	1.14	-37.1	—	100
3	0.367	14:11	5.99	290.00	23.85	3.26	~~0.99~~	-46.1	—	100
4	0.653	14:15	5.99	288.00	23.81	3.02	.79	-56.0	—	100
5	1.020	14:20	6.00	286.00	23.79	3.03	.77	-62.8	—	100
6	1.469	14:25	6.01	284.00	23.82	3.12	.68	-68.2	—	100
8	2.611	14:30	6.01	276.00	23.86	3.32	.66	-71.8	—	100
10	4.080	14:33	6.02	276.00	23.89	3.16	.57	-74.2	—	100
		14:36	6.02	276.00	23.91	3.08	.57	-73.5	—	100

Well Casing Diameter: 0.5
Total Well Depth (TD): 7.40
* Static Water Level (WL): 4.38
One Casing Volume(gal/L):
[3.78gals/L]
Start Purge (hrs): 13:45
End Purge (hrs): 14:36
Total Purge Time (min): 50 min
Total Vol. Purged (gal/L): 5.0

*Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 12-22-99									
Time: 14:36	Clear	6.02	276.00	23.91	3.08	.57	-73.5	4.38	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
Gross Alpha/Gross Beta/Total Uranium/Radium 226	HNO3 (pH < 2)	1 - 1 gal plastic cubitainer	
Herbicides		2 glass	✓
SVOCs		2 glass	✓
Pesticides		2 glass	✓
TAL inorganics	Nitric	1 plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm):

Method:
[✓] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[✓] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): [illegible]

GROUNDWATER PURGING AND SAMPLING LOG

Date 12-22-99

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC096 1542
Sample Location: NTC Orlando
Sampled By: Mary Gardner
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	10:00	5.19	61.00	23.05	11.6	4.65	112.6	~~5.20~~	100
2	0.163	10:05	4.48	53.00	22.64	3.21	1.11	92.3	—	100
3	0.367	10:10	4.46	53.00	22.64	1.12	1.25	82.2	—	100
4	0.653	10:15	4.32	53.00	22.77	.45	.99	74.7	—	100
5	1.020	10:20	4.29	52.00	22.62	.14	.81	71.6	—	100
6	1.469	10:23	4.27	52.00	22.91	.21	.77	69.3	—	100
8	2.611	10:26	4.27	52.00	22.97	.41	.70	68.2	↓	100
10	4.080									

Well Casing Diameter: 0.5 .05
Total Well Depth (TD): 7.19
* Static Water Level (WL): 5.20
One Casing Volume(gal/L):
[3.78gals/L]
Start Purge (hrs): 10:00 1
End Purge (hrs): 10:26
Total Purge Time (min): 26
Total Vol. Purged (gal/L): 2.6

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

no tank

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 12-22-99									
Time: 10:26	Clear	4.27	52.00	22.97	.41	.70	68.2	5.20	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
Gross Alpha/Gross Beta/Total Uranium/Radium 226	HNO3 (pH < 2)	1 - 1 gal plastic cubitainer	
pesticides		2 glass liters	✓
Herbicides		2 glass liters	✓
2VOC's		2 glass liters	✓
TAL	Nitrite	1 plastic liter	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 ppm

Method:
[✓] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[✓] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): Mary Gardner

GROUNDWATER PURGING AND SAMPLING LOG

Date 10-21-99

Page___ of ___

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC096-16-12
Sample Location: SA 09
Sampled By: Gary Sparks
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	15:10	4.84	85.0	23.19	9.6	1.85	40.1	NA	100
2	0.163	1516	4.76	84.0	23.19	5.4	1.40	40.3		100
3	0.367	1520	4.76	84.0	23.26	2.8	1.04	39.4		100
4	0.653	1523	4.76	84.0	23.27	2.0	0.99	38.6		100
5	1.020	1526	4.76	84.0	23.18	1.5	0.97	37.9		100
6	1.469	1529	4.76	84.0	23.14	1.2	0.97	38.4		100
8	2.611									
10	4.080									

Well Casing Diameter: 0.5
Total Well Depth (TD):
Static Water Level (WL):
One Casing Volume(gal/L):
[3.78gals/L]
Start Purge (hrs): 15:10
End Purge (hrs): 15:30
Total Purge Time (min): 20 min
Total Vol. Purged (gal/L): 2.0 lt.

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/7/99									
Time: 1530	clear	4.76	84.0	23.12	1.0	0.97	38		100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
[illegible]	[illegible]	[illegible]	
TAL Inorganics	HNO3	1-1Lt Plastic	102199
Pesticides	None	1-1Lt Amber	
Herbicides	None	1-1LT Ambers	

ADDITIONAL INFORMATION

OVA Reading (ppm): 0

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle If Applicable:
MS/MSD
Duplicate ID No.:

Signature(s): [illegible]

40 [illegible]

GROUNDWATER PURGING AND SAMPLING LOG

Date 10/23/99

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC0961712
Sample Location: OLD0917
Sampled By: JK
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/Ft. of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	* DTW ft BTOC	Flow Rate ml/min
1	0.041	1350	6.78	333	25.99	2.46	5.10	83.2	~~1.65~~	100
2	0.163	1355	6.64	337	26.16	1.66	4.94	87.0	~~1.65~~	100
3	0.367	1400	6.68	336	26.29	1.16	4.95	90.3	~~1.65~~	100
4	0.653	1405	6.67	335	26.43	1.12	5.02	91.4	~~1.65~~	100
5	1.020	1410	6.67	334	26.38	1.21	5.03	91.9	~~1.65~~	100
6	1.469	1415	6.67	334	26.42	0.96	5.03	92.3	~~1.65~~	100
8	2.611									
10	4.080									

Well Casing Diameter: 0.5
Total Well Depth (TD): 10.1
* Static Water Level (WL): 1.65
One Casing Volume (~~gal/L~~): 1.31L
[3.78gals/L]
Start Purge (hrs): 1350
End Purge (hrs): 1415
Total Purge Time (min): 25
Total Vol. Purged (~~gal~~/L): .6L

* Initial water level measurements (Static Water Level) were incorrectly recorded in subsequent readings (DTW). The incorrect readings have been crossed-out. MJC-12/29/99

No 1.65?

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 10/23/99									
Time: 1415	clear	6.67	334	26.42	0.96	5.03	92.3	1.65	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	~~HNO3 (pH < 2)~~	~~1 - 1 gal plastic container~~	
Pesticides 8181	N/A	2 1 L Glass	✓
Herbicides 8151	N/A	2 1 L Glass	✓
TAL Inorganics	HNO3	1 1 L Plastic	✓

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.00PPM

Method:
[X] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[X] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:
MS/MSD —
Duplicate ID No.: —

Signature(s): [signature]

GROUNDWATER PURGING AND SAMPLING LOG

Date 11-27-99

Project Site Name: NTC Orlando
Project No.: CTO 0024

[ ] Domestic Well Data
[X] Monitoring Well Data
[ ] Other Well Type:

Sample ID No.: NTC99-1912
Sample Location: OLD0419
Sampled By: Gary Sparks
C.O.C. No.:

PURGING DATA

Casing Size (in.)	Gals/Ft of Water	Time Hr:Min	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
1	0.041	10:40	6.76	453.0	25.65	80	2.32	-44.8	1.95	100
2	0.163	10:45	6.65	400.00	25.96	32	1.59	-61.9	1.95	100
3	0.367	10:50	6.52	338.00	26.05	13	1.33	-50.9	1.95	100
4	0.653	10:55	6.45	305.00	26.15	11	1.16	-46.5	1.95	100
5	1.020	11:00	6.40	285.00	25.98	3.9	1.05	-48.5	1.95	100
6	1.469	11:03	6.36	276.00	26.06	2.7	1.01	-49.1	1.95	100
8	2.611	11:06	6.34	270.00	26.07	2.5	.95	-50.4	1.95	100
10	4.080	11:09	6.32	263.00	26.06	2.4	.89	-52.5	1.95	100
		11:12	6.28	248.00	26.07	2.2	.85	-54.0	1.95	100
		11:15	6.27	244.00	26.09	2.3	.83	-54.8	1.95	100
		11:18	6.26	235.00	26.06	2.1	.81	-55.6	1.95	100

Well Casing Diameter: 2.0
Total Well Depth (TD): 30.5
Static Water Level (WL): 1.95
One Casing Volume(gal/L):
[3.78gals/L]
Start Purge (hrs): 10:40
End Purge (hrs): 11:18
Total Purge Time (min): 38
Total Vol. Purged (gal/L): 3.8

SAMPLE PARAMETERS

	Color Description	pH pH units	S.C. mS/cm	Temp. °C	Turbidity NTU	DO mg/L	ORP mV	DTW ft BTOC	Flow Rate ml/min
Date: 11-27-99									
Time: 11:18	Clear	6.26	235.00	26.06	2.1	.81	-55.6	1.95	100

SAMPLE COLLECTION INFORMATION

Analysis	Preservative	Container Requirements	Collected
~~Gross Alpha/Gross Beta/Total Uranium/Radium 226~~	HNO3 (pH < 2)	1 - 1 gal plastic cubitainer	
SVOCs 8270			✓
~~Herbicides~~ 8151			—
TAL ~~Inorganics~~			—

ADDITIONAL INFORMATION

OVA Reading (ppm): 0.0 ppm

Method:
[ ] Peristaltic Pump
[ ] Centrifugal Pump
[ ] Bladder Pump
[ ] Tube Evacuation
[ ] Vacuum Jug Assembly
[ ] Bailer

Tubing Type:
[ ] Polyethylene
[ ] Teflon
[ ] Teflon-lined Polyethylene

Circle if Applicable:

MS/MSD	Duplicate ID No.:	Signature(s):
		Gary Sparks