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Final

Technical Memorandum for the Groundwater Sampling at SWMU 24 Oceana Naval Air Station, Virginia Beach, Virginia

Prepared for

Department of the Navy

Atlantic Division

Naval Facilities Engineering Command

Norfolk, Virginia

Contract No. N62470-95-D-6007
CTO-0023

January 2000

Prepared by

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Federal Programs Corp.

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Oceana Naval Air Station
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CTO Task Order - 023
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1.0 Introduction

This summary report documents the methods and results of groundwater sampling using both conventional and direct-push technology (DPT) at SWMU. The field work was conducted during late October and early November 1998.

At SWMU 24, subsurface groundwater samples were collected with a Geoprobe and analyzed using a close support laboratory (CSL). The study was conducted in the area of SWMU 24 where NoVOCs groundwater remediation was conducted in 1996. The purpose of the study was to support a decision whether to proceed with additional active groundwater remediation and if so, where to locate the treatment well(s) and monitoring system.

At SWMU 24, groundwater samples were also collected from monitoring wells and select piezometers to assess site-wide groundwater quality. The purpose of the standard low-flow groundwater sampling was to support a human health risk assessment.

This report is divided into two sections. The first section summarizes methods and results for the DPT groundwater sampling at SWMU 24. The second section of the report summarizes methods and results for the standard low-flow groundwater sampling at SWMU 24.

2.0 SWMU 24 Groundwater

The Navy implemented a 15-week pilot test of the NoVOCs™ in-well aeration groundwater treatment technology at SWMU 24 in 1996. Specific information pertaining to the pilot test including system design, pilot test monitoring, and system performance is contained in the *Final Report on the Pilot Test on the NoVOCs™ In-situ Aeration Technology at RCRA SWMU 24, Oceana Naval Air Station, Virginia Beach, Virginia* (CH2M HILL, April 1997). The analytical data for volatile organics suggest that the system was effective in substantially reducing the concentration of contaminants of concern *cis*-1,2-dichloroethene (*cis*-1,2-DCE) and trichloroethene (TCE) during the 15 weeks of pilot test operation, especially within a 40 foot radius of the treatment well. The mass reduction caused by the system also appears to be substantial. Estimates from mass balance calculations suggest that from 22 to 76 percent of the mass of *cis*-1,2-DCE was removed from the groundwater over the duration of the pilot test. The system functioned well after an initial period of field testing and adjustments, although a slightly decreasing flow rate suggests that minor clogging due to oxidized iron occurred during the test. The final report recommended the installation of additional treatment wells at SWMU 24. A work plan was developed and finalized (CH2M HILL, August 1998) to perform continued groundwater remediation at SWMU 24 using the NoVOCs™ technology. The objectives defined in the work plan for the additional groundwater remediation are (1) conduct a direct-push groundwater investigation on a sampling grid to evaluate where current plume boundaries are located, (2) install an additional NoVOCs™ treatment well and groundwater monitoring points, (3) remediate any areas of significant contamination, and (4) collect sufficient data to evaluate groundwater remediation success using the NoVOCs™ system.

2.1 Plume Delineation

CH2M HILL conducted a DPT groundwater investigation at SWMU 24 to define the location and character of the *cis*-1,2-DCE contaminant plume in order to support a decision regarding the need for additional groundwater remediation using NoVOCs™ in-well aeration technology.

The DPT groundwater samples were analyzed on site using a CSL. The CSL results are not validated and are considered to be useful as a screening level indicator of groundwater quality. Procedures and results of the DPT investigation are documented below.

Concurrently, groundwater samples were collected from the eleven shallow monitoring wells, one shallow piezometer, and one deep piezometer at SWMU 24 using standard low-flow groundwater sampling techniques. These groundwater samples were analyzed at an offsite for the full target compound list (TCL) organics and target analyte list (TAL) inorganics to support a human health risk assessment. Results of this sampling are documented in Section 3.

2.2 DPT Sampling Procedures

A total of one hundred thirteen groundwater samples were collected from forty locations distributed in a grid array. The DPT groundwater sampling locations are illustrated on Figure 2-1. At most locations a shallow (8 foot deep), an intermediate, (14 foot deep), and a deep (20 foot deep) filtered groundwater sample was extracted. The grid array was generated by sampling in four directions from the location of highest *cis*-1,2-DCE concentrations from previous sampling. The extent of groundwater contamination was defined as the location where the concentrations of detected parameters were no longer detected or were detected at concentrations below the MCLs or EPA Region III Risk Based Concentrations (RBCs) for tap water.

The DPT groundwater samples were analyzed in a CSL for modified Method 8010 chlorinated VOCs. The project was planned with the use of 8021 halogenated and chlorinated VOCs as the analytical method. However, the solicited subcontractors could not provide the close support laboratory equipment necessary to conduct the planned analyses within the proposed schedule of the project.

Ten chlorinated volatiles were included in the list of analytical parameters. They are 1,1-Dichloroethene, Methylene Chloride, *trans*-1,2-Dichloroethene, 1,1-Dichloroethane, *cis*-1,2-Dichloroethene, 1,1,1-Trichloroethane, Carbon Tetrachloride, Trichloroethene, 1,1,2-Trichloroethane, Tetrachloroethene.

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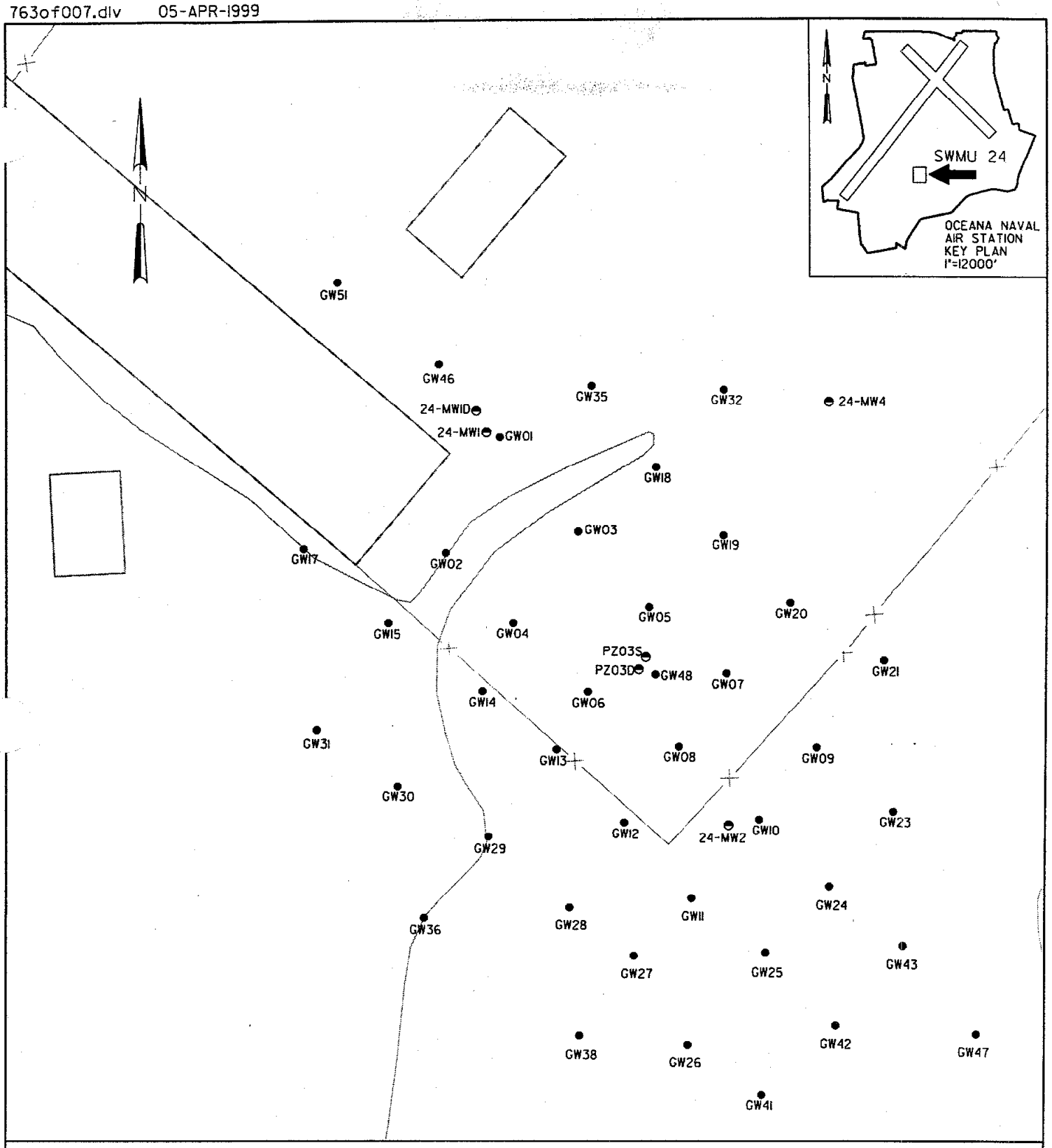

LEGEND

- MONITORING WELL
- DPT SAMPLING POINT

20 40 60
Scale In Feet

Figure 2-1
DPT AND MONITORING WELL I
GROUNDWATER SAMPLING LOCATIONS
AT SWMU 24
Naval Air Station, Oceana
Virginia Beach, Virginia

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2.3 Results of the DPT Sampling

Detected contaminants in groundwater include *cis*-1,2-DCE, TCE, *trans*-1,2-dichloroethene (*trans*-1,2-DCE), benzene, ethylbenzene, and xylenes. The detected chemicals were compared to regulatory standards and criteria for groundwater to identify contaminants of concern. Those contaminants detected at concentrations that exceed federal maximum contaminant levels (MCLs) are *cis*-1,2-DCE, TCE, and benzene. The same contaminants also exceed the EPA Region III Risk Based Concentrations (RBCs) for tap water. Both *cis*-1,2-DCE and TCE were detected at several sample locations in the study area. Benzene was detected at only one sample location.

The DPT groundwater sampling results were plotted and contoured to illustrate the areal extent of the contaminant plumes and the vertical distribution of contaminant concentrations at depths of 8 and 14 feet below ground surface (bgs). Figure 2-2 depicts the areal distribution of *cis*-1,2-DCE concentrations at 8 feet bgs. Figure 2-3 depicts the areal distribution of *cis*-1,2-DCE concentrations at 14 feet bgs. Figure 2-4 depicts the areal distribution of trichloroethene concentrations at 14 feet bgs.

Table 2-1 summarizes the analytical detections at 8 feet bgs and Table 2-2 summarizes the analytical detections at 14 feet bgs. Appendix A-1 contains a summary of all analytical sample analyses, including detection limits. At a depth of 20 feet bgs there was only one detect (4.91 J of *cis*-1,2-DCE) at one sample location (location No.19). This detect is less than the MCL or the Region III Tap Water RBC. Therefore the 20-foot depth data are not plotted or contoured. TCE detections at 8 feet were not contoured because there were only three detects; all three were below the MCL and two of three were below the RBC.

At each DPT groundwater sampling location the detected concentrations of *cis*-1,2-DCE and TCE were averaged between the 8-foot, 14-foot, and 20-foot depths. When a contaminant was not detected one half of the detection limit was used. A contoured plot of the averaged *cis*-1,2-DCE concentrations is illustrated on Figure 2-5 and tabulated in Table 2-3. These derived data are more representative of the *cis*-1,2-DCE concentrations that would be detected using a standard shallow monitoring well at the same location because the DPT

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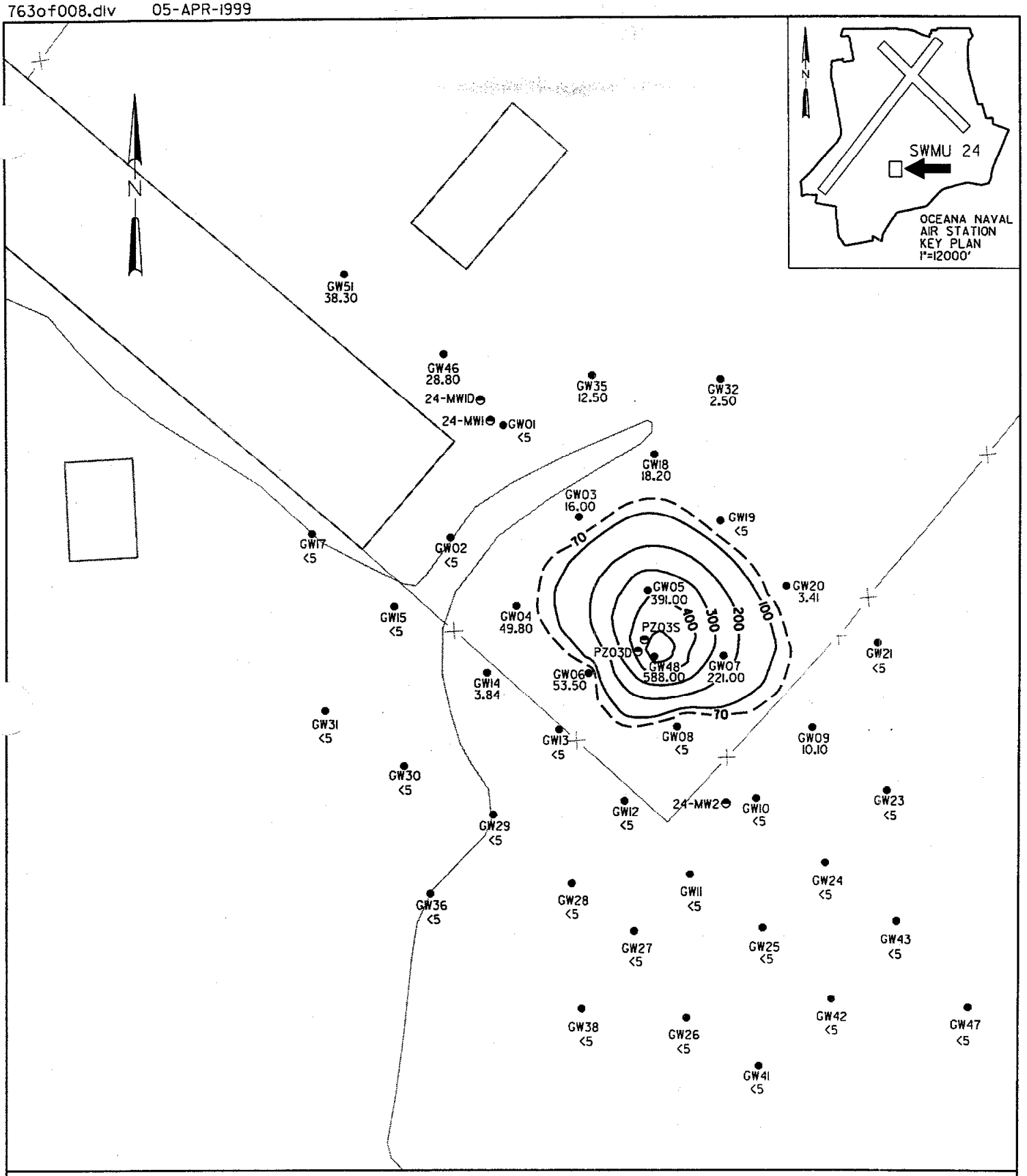

LEGEND

- MONITORING WELL
- DPT SAMPLING POINT
- MCL FOR 1,2-DCE (70 ug/l)

0 20 40 60
Scale In Feet

Figure 2-2
AREAL DISTRIBUTION OF CIS 1,2-DCE CONCENTRATIONS IN GROUNDWATER, 8 FEET BELOW GROUND SURFACE AT SWMU 24-NOVEMBER 1998
Naval Air Station, Oceana
Virginia Beach, Virginia

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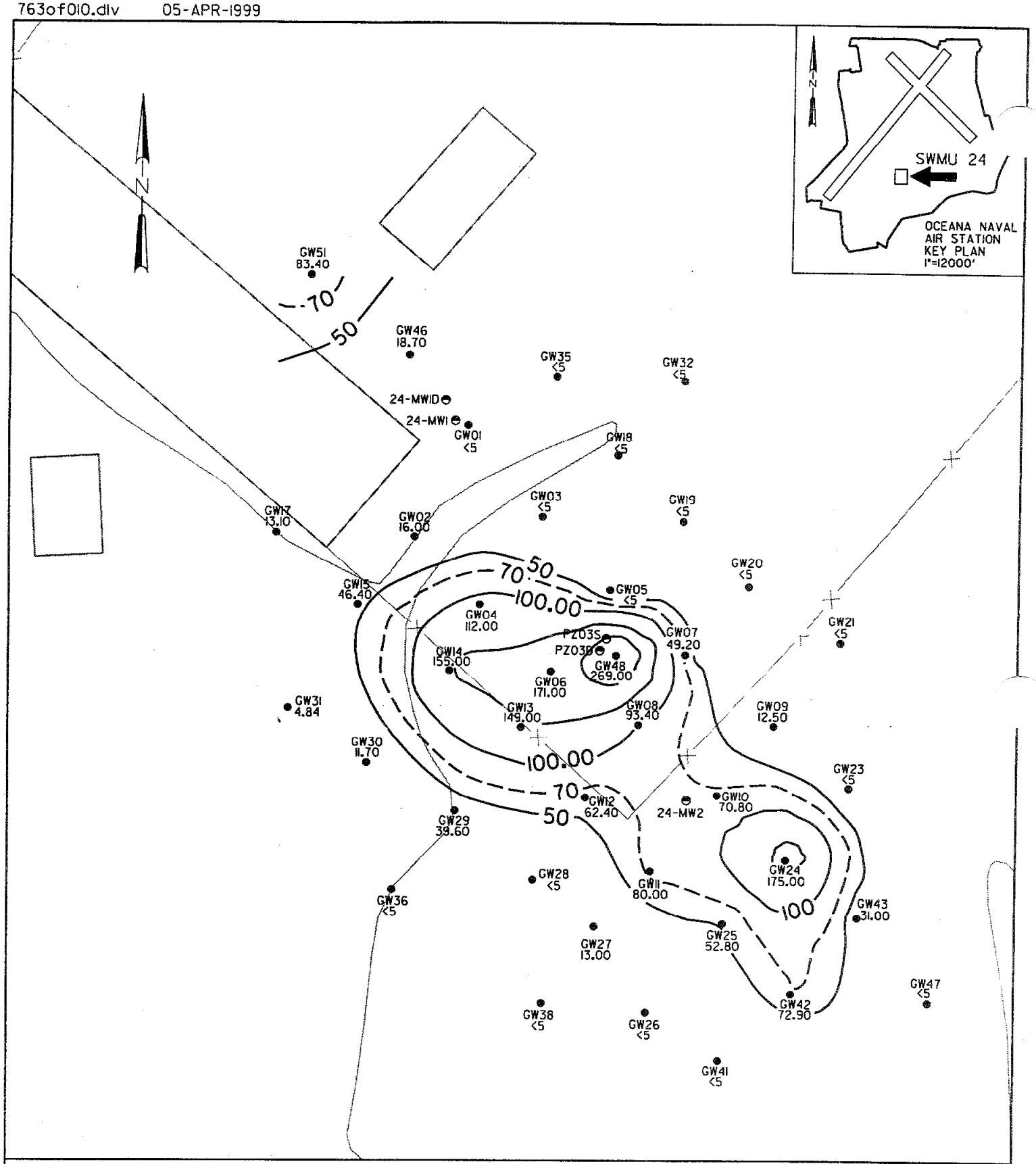

LEGEND

- MONITORING WELL
- DPT SAMPLING POINT
- — — MCL FOR 1,2-DCE (70 ug/l)

0 20 40 60
Scale in Feet

Figure 2-3
AREAL DISTRIBUTION OF CIS 1,2-DCE CONCENTRATIONS IN GROUNDWATER, 14 FEET BELOW GROUND SURFACE AT SWMU 24-NOVEMBER 1998

Naval Air Station, Oceana
Virginia Beach, Virginia

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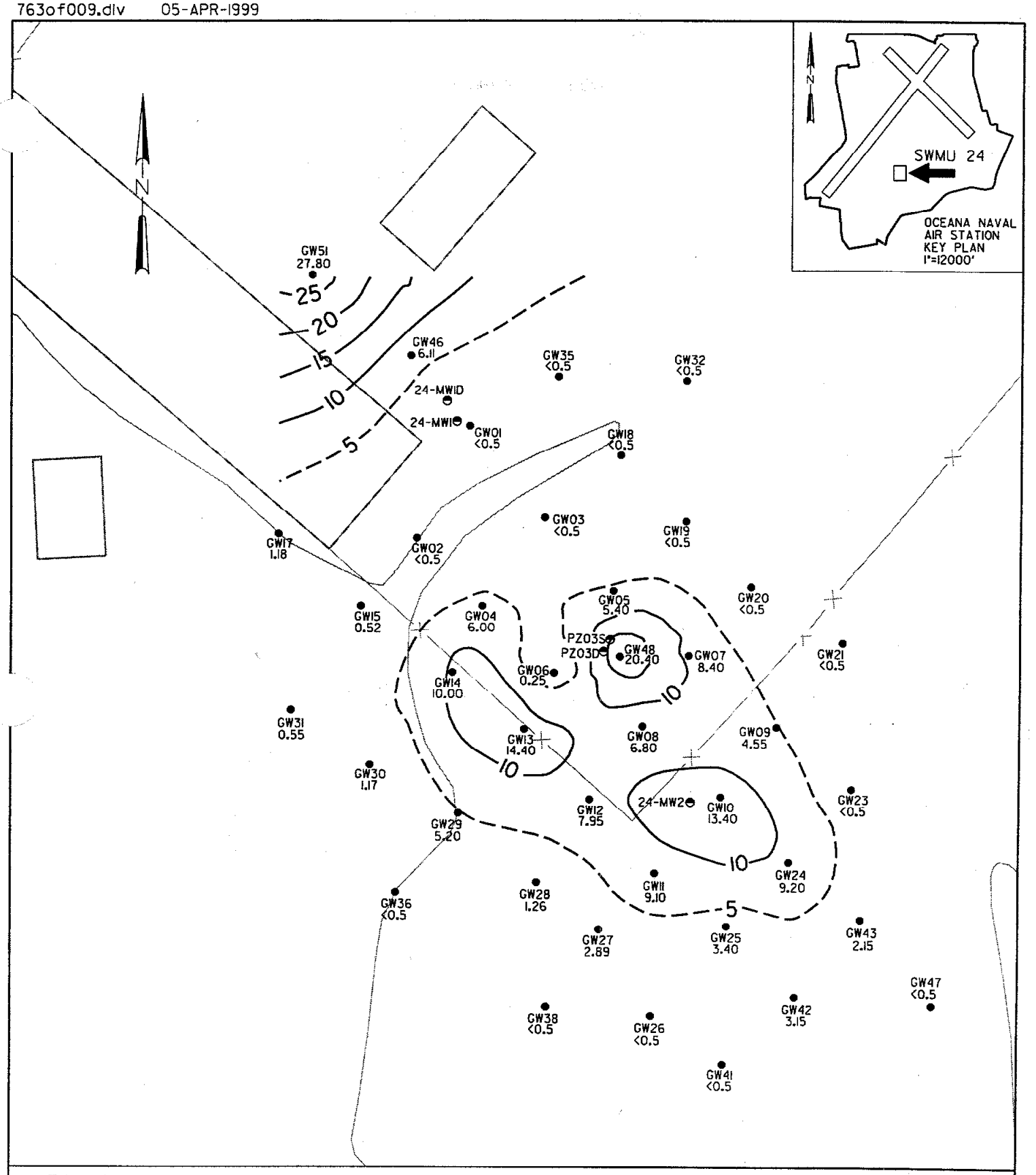

LEGEND

- MONITORING WELL
- DPT SAMPLING POINT
- MCL FOR TCE (5 ug/l)

0 20 40 60
Scale In Feet

Figure 2-4
AREAL DISTRIBUTION OF TCE CONCENTRATIONS IN GROUNDWATER AT 14 FEET BELOW GROUND SURFACE AT SWMU 24-NOVEMBER 1998

Naval Air Station, Oceana
Virginia Beach, Virginia

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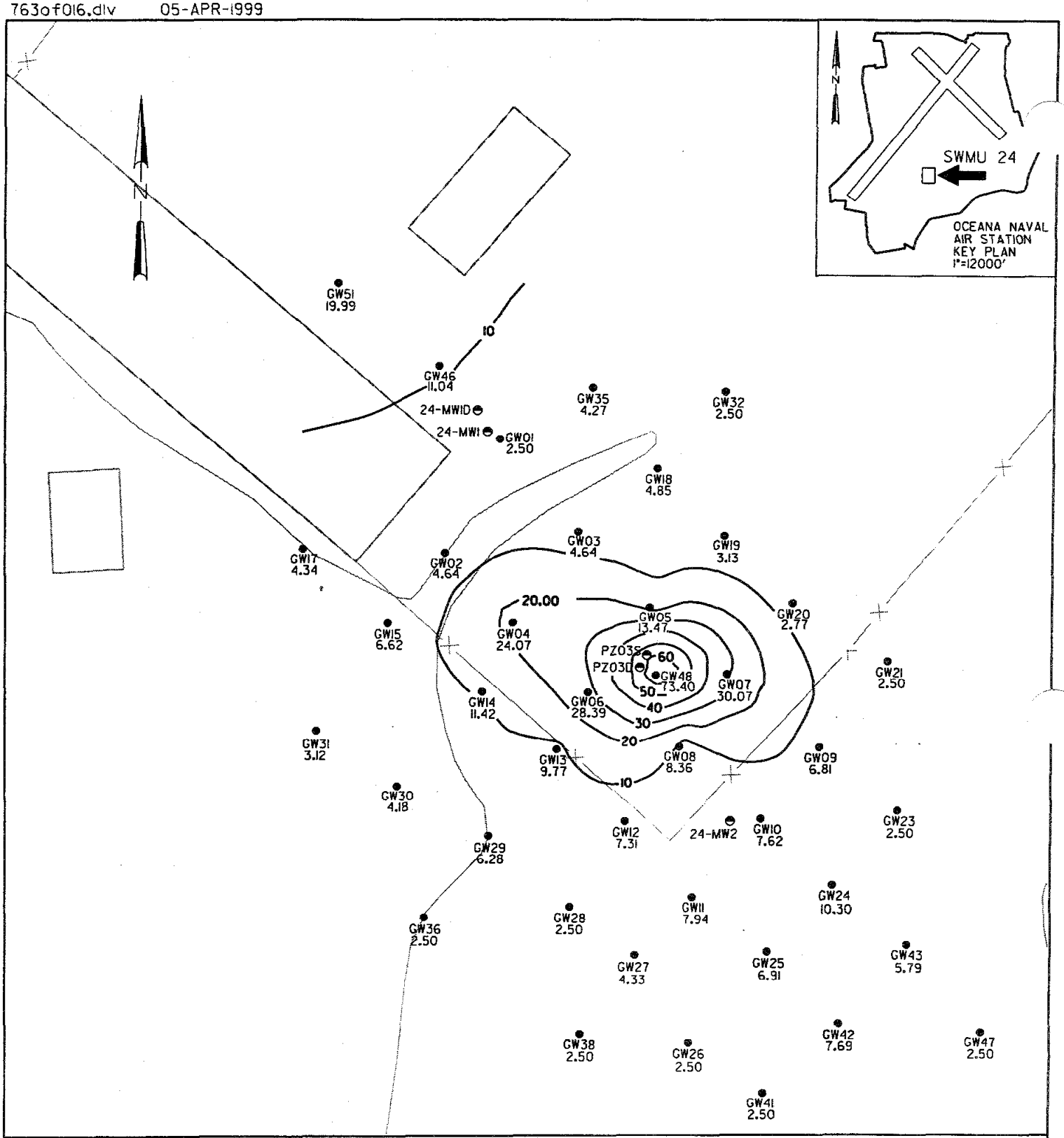
Table 2-1
Detected Chemicals in DPT Groundwater Samples from 8-feet Below Ground Surface, at SWMU 24
Naval Air Station, Oceana

Station ID	trans-1,2-DCE (µg/L)	cis-1,2-DCE (µg/L)	TCE (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m&p-Xylenes (µg/L)	o-Xylenes (µg/L)
GW01	<5.0	<5.0	<0.5	<5.0	<5.0	ND	10.000	ND
GW02	<5.0	<5.0	<0.5	<5.0	<5.0	**89.1**	**17.0**	**6.45**
GW03	<5.0	**16.0**	<0.5	<5.0	<5.0	**6.47**	**9.850**	**20.3**
GW04	<5.0	**49.800**	<0.5	**6.28**	<5.0	**57.2**	**127**	**13.6**
GW05	<5.0	**391**	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW06	**4.850**	**53.5**	**0.56**	<5.0	<5.0	<5.0	<5.0	<5.0
GW07	<5.0	**221.000**	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW08	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW09	<5.0	**10.1**	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW10	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW11	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW12	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW13	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW14	<5.0	**3.840**	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW15	<5.0	<5.0	<0.5	<5.0	<5.0	**14.0**	**18.8**	<5.0
GW17	<5.0	<5.0	<0.5	<5.0	<5.0	**17.7**	**9.65**	<5.0
GW18	**3.510**	**18.2**	**2.530**	<5.0	<5.0	<5.0	<5.0	<5.0
GW19	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW20	<5.0	**3.4**	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW21	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW23	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW24	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW25	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW26	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW27	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW28	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW29	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW30	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW31	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW32	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW35	<5.0	**12.5**	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW36	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW38	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW41	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW42	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW43	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW46	<5.0	**28.8**	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW47	<5.0	<5.0	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0
GW48	**44.70**	**588**	**1.18**	<5.0	<5.0	<5.0	<5.0	<5.0
GW51	<5.0	**38.3**	<0.5	<5.0	<5.0	<5.0	<5.0	<5.0

Table 2-2 Detected Chemicals in DPT Groundwater Samples from 14-feet BGS SWMU 24, Naval Air Station, Oceana			
Station ID	**trans-1,2-DCE (µg/L)**	**cis-1,2-DCE (µg/L)**	**TCE (µg/L)**
GW01	>5.0	>5.0	>0.5
GW02	>5.0	**16.0**	>0.5
GW03	>5.0	>5.0	>0.5
GW04	**13.0**	**112**	**6.00**
GW05	>5.0	>5.0	**5.40**
GW06	**12.8**	**171**	**0.25**
GW07	>5.0	**49.2**	**8.40**
GW08	**10.4**	**93.4**	**6.80**
GW09	>5.0	**12.5**	**4.55**
GW10	>5.0	**70.8**	**13.4**
GW11	**3.6**	**80.0**	**9.10**
GW12	>5.0	**62.4**	**7.95**
GW13	**9.50**	**149**	**14.4**
GW14	**9.80**	**155**	**10.0**
GW15	**3.4**	**46.4**	**0.52**
GW17	>5.0	**13.1**	**1.18**
GW18	>5.0	>5.0	>0.5
GW19	>5.0	>5.0	>0.5
GW20	>5.0	>5.0	>0.5
GW21	>5.0	>5.0	>0.5
GW23	>5.0	>5.0	>0.5
GW24	>5.0	**175.0**	**9.20**
GW25	>5.0	**52.8**	**3.40**
GW26	>5.0	>5.0	>0.5
GW27	>5.0	**13.0**	**2.89**
GW28	>5.0	>5.0	**1.26**
GW29	>5.0	**39.6**	**5.20**
GW30	>5.0	**11.7**	**1.17**
GW31	>5.0	**4.8**	**0.55**
GW32	>5.0	>5.0	>0.5
GW35	>5.0	>5.0	>0.5
GW36	>5.0	>5.0	>0.5
GW38	>5.0	>5.0	>0.5
GW41	>5.0	>5.0	>0.5
GW42	>5.0	**72.9**	**3.15**
GW43	>5.0	**31.0**	**2.15**
GW46	>5.0	**18.7**	**6.11**
GW47	>5.0	>5.0	>0.5
GW48	**19.1**	**269**	**20.4**
GW51	>5.0	**83.4**	**27.8**



LEGEND

- MONITORING WELL
- DPT SAMPLING POINT

0 20 40 60
Scale in Feet

Figure 2-5
AVERAGED CIS-1,2-DCE CONCENTRATIONS IN GROUNDWATER FROM 8, 14 AND 20 FEET BELOW GROUND SURFACE, AT SWMU 24
NOVEMBER 1998

Naval Air Station, Oceana
Virginia Beach, Virginia

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Table 2-3 Averaged Concentrations of cis1,2-DCE and TCE from 8, 14, and 20 Feet Deep SWMU 24, Naval Air Station, Oceana		
Sample Location	**cis-1,2-DCE (μg/L)**	**TCE (μg/L)**
GW01	2.50	0.25
GW02	4.64	0.25
GW03	4.64	0.25
GW04	24.07	0.72
GW05	13.47	0.70
GW06	28.39	0.33
GW07	30.07	0.81
GW08	8.36	0.75
GW09	6.81	0.66
GW10	7.62	0.94
GW11	7.94	0.83
GW12	7.31	0.79
GW13	9.77	0.97
GW14	11.42	0.85
GW15	6.62	0.32
GW17	4.34	0.42
GW18	4.85	0.54
GW19	3.13	0.25
GW20	2.77	0.25
GW21	2.50	0.25
GW23	2.50	0.25
GW24	10.30	0.83
GW25	6.91	0.60
GW26	2.50	0.25
GW27	4.33	0.57
GW28	2.50	0.43
GW29	6.28	0.69
GW30	4.18	0.42
GW31	3.12	0.33
GW32	2.50	0.25
GW35	4.27	0.25
GW36	2.50	0.25
GW38	2.50	0.25
GW41	2.50	0.25
GW42	7.69	0.58
GW43	5.79	0.51
GW46	11.04	0.73
GW47	2.50	0.25
GW48	73.40	1.82
GW51	19.99	1.20

utilizes a 1-foot sampling interval whereas a standard monitoring well utilizes a several-foot monitoring interval. Figure 2-5 shows that the MCL for the averaged *cis*-1,2-DCE concentrations is exceeded only at one location, that of GW-48.

A groundwater sample was collected from piezometers PZ3S (screened from 6 to 14 feet bgs) and PZ3D (screened from 20-25 feet). DPT sample location GW-48 is located adjacent to these piezometers. A groundwater sample was collected from monitoring well MW01 (screened from 5 to 20 feet). DPT sample location GW-01 is adjacent to this well. A groundwater sample was collected from monitoring well MW02 (screened from 5 to 20 feet). DPT sample location GW-10 is adjacent to this well. The groundwater samples from these wells/piezometers were split and analyzed in both the CSL and an offsite laboratory. The split sample results from the above-noted monitoring wells (from both the offsite laboratory and the CSL) and the averaged CSL analytical results from three depths from the adjacent DPT sample locations are tabulated in Table 2-4. Boldface values indicate detects and non-boldface values are the detection limits. DPT results are from depths of 8, 14, and 20 feet bgs and were averaged using a geometric mean. One half of the detection limit was used for non-detects. The comparison of these data shows some variability between results. However the data support an interpretation of the presence of a localized *cis*-1,2-DCE hot spot near PZ3 and GW-48 that has a limited areal and vertical extent.

2.3.1 Water Table Elevations

Depth to groundwater measurements were completed in site monitoring wells during the DPT investigation. A water table contour map of the DPT site investigation area was made from these measurements and is illustrated in Figure 2-6. The groundwater flow is generally south-southeasterly. This groundwater flow direction is congruent with the location of the remnants of the original *cis*1,2-DCE groundwater contaminant plume that originated near 24-MW1 and was characterized during the DPT investigation.

Table 2-4
Comparison of Laboratory, CSL, and Averaged DPT Groundwater Parameter Concentrations at Similar Locations
SWMU 24, NAS Oceana

Sample Location	PZ3S LAB	PZ3S CSL	PZ3D LAB	PZ3D CSL	DPT - GW48 CSL Averaged Concentration	MW01 Lab	MW01 CSL	DPT - GW01 CSL Averaged Concentration	MW02 Lab	MW02 CSL	DPT - GW10 CSL Averaged Concentration
Parameter	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
1,1-Dichloroethene	1	**7.77**	1	**7**	2.5	1	5	2.5	1	5	2.5
Methylene Chloride	**0.6**	5	**0.5 B**	5	2.5	1	5	2.5	1	5	2.5
trans-1,2-Dichloroethene	**65 J**	**3.41 J**	**4.5**	**47.3**	**12.88**	**8.8**	**3.48**	2.5	1	5	2.5
1,1-Dichloroethane	1	5	1	5	2.5	1	5	2.5	1	5	2.5
cis-1,2-Dichloroethene	**500**	**29.8 E**	**39.1**	**339**	**73.4**	**59.8**	**48.9**	2.5	**0.2 J**	5	**7.62**
1,1,1-Trichloroethane	1	0.5	1	0.5	0.25	1	0.5	0.25	1	0.5	0.25
Carbon Tetrachloride	1	0.5	1	0.5	0.25	1	0.5	0.25	1	0.5	0.25
Trichloroethene	**0.6 J**	**1.68**	**1.9**	**0.06**	**1.82**	1	0.5	0.25	1	0.5	**0.94**
1,1,2-Trichloroethane	1	0.5	1	0.5	0.25	1	0.5	0.25	1	0.5	0.25
Tetrachloroethene	1	0.5	1	0.5	0.25	1	0.5	0.25	1	0.5	0.25
Vinyl Chloride	**2.5**	NA	1	NA	NA	1	NA	NA	1	NA	NA

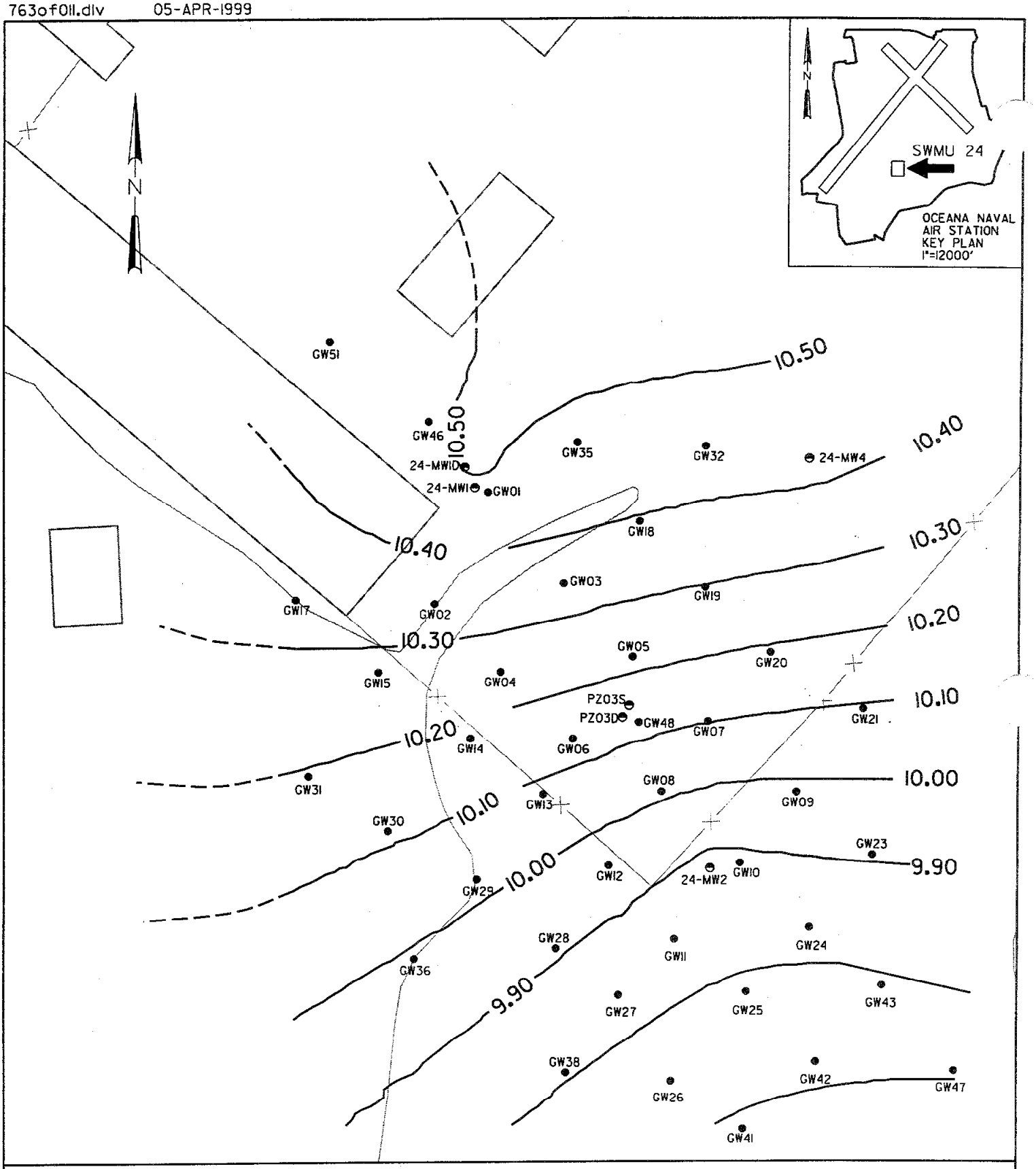
Notes:

DPT results are from depths of 8, 14, and 20 feet bgs and were averaged using a geometric mean. One half of the detection limit was used for non-detects.

J = estimated value

B = detected in blank

E = exceed calibration range



LEGEND

- MONITORING WELL
- SAMPLING POINT
- WATER TABLE ELEVATION CONTOUR

0 20 40 60
Scale In Feet

Figure 2-6
WATER TABLE ELEVATION MAP
OF DPT INVESTIGATION AREA
AT SWMU 24-NOVEMBER 1998

Naval Air Station, Oceana
Virginia Beach, Virginia

CH2MHILL

3.0 SWMU 24 Groundwater Sampling

Groundwater sampling activities at SWMU-24 were conducted by CH2M HILL, Inc., from October 27 through November 6, 1998, to support risk assessment as requested by the USEPA in October 1998. Prior to this sampling event, groundwater at SWMU-24 had been sampled as part of the Corrective Measure Study conducted in 1993 and 1994.

3.1 Groundwater Sampling Procedures for Monitoring Wells and Piezometers

From October 27 through November 6, 1998, groundwater samples were collected from twelve monitoring wells (MW01, MW1D, MW02, MW03, MW04, MW05, MW06, MW07, MW08, MW09 MW10 and MW11), one shallow piezometer (PZ3S), and one deep piezometer (PZ3D), at SWMU-24. These groundwater sampling locations are illustrated in Figure 3-1.

All groundwater samples were collected using a low-flow Grundfos pump with dedicated tubing in accordance with CH2M HILL, Inc.'s standard operating procedures (SOPs) for groundwater sampling.

Upon collection, all groundwater samples were submitted to an offsite laboratory (GP Environmental of Gaithersburg, MD) for analysis of Target Compound List (TCL) Low-concentration (LC) Volatile Organic Compounds (VOCs), TCL Semi-Volatile Organic Compounds (SVOCs), TCL Pesticides and PCBs, Polyaromatic Hydrocarbons (PAHs) by EPA Method 8310, Target Analyte List (TAL) Dissolved Metals and Cyanide, and TAL Total Metals and Cyanide. These analyses were chosen to support a human health risk assessment of this site.

Water levels were measured prior to groundwater sampling and are presented in Table 3-1 below. A water table map was produced from these measurements (Figure 3-2). The water table map illustrates general groundwater flow directions which varies from southeasterly to southwesterly across the site.

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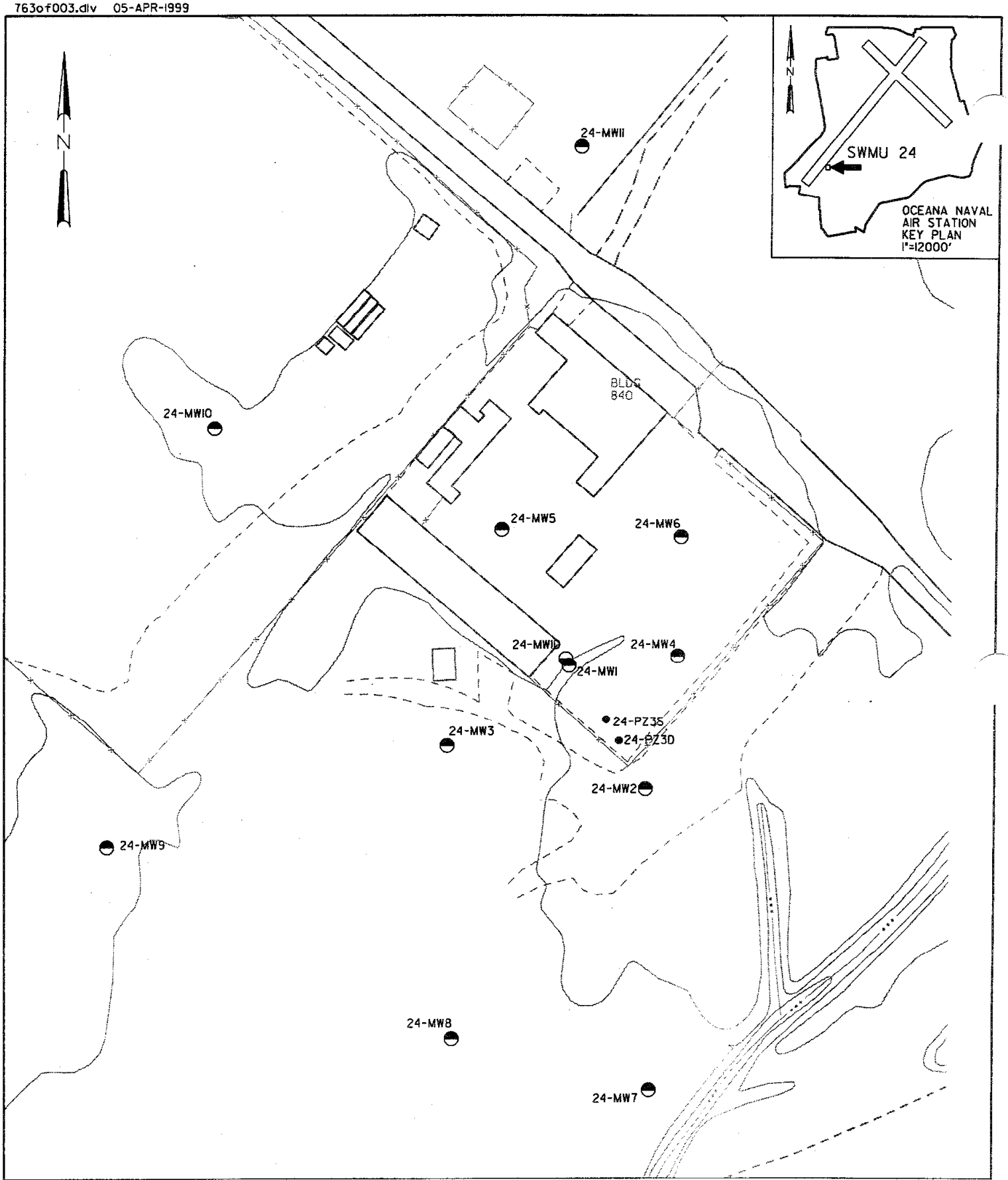

LEGEND

SHALLOW MONITORING WELL

DEEP MONITORING WELL

0 60 120 180

SCALE IN FEET

Figure 3-1
GROUNDWATER SAMPLING LOCATIONS
AT SWMU 24
Naval Air Station, Oceana
Virginia Beach, Virginia

CH2MHILL

Table 3-1
SWMU-24 Groundwater Elevations
October 27-November 6, 1998

Location	Top of PVC Elevation (ft)	Depth To Groundwater from Top of PVC (feet)	Elevation of Groundwater Surface (feet)
OW24-MW01-R01	17.34	6.87	10.47
OW24-MW1D-R01	17.33	6.82	10.51
OW24-MW02-R01	18.76	8.88	9.88
OW24-MW03-R01	16.06	5.80	10.26
OW24-MW04-R01	17.37	6.94	10.43
OW24-MW05-R01	17.14	6.81	10.33
OW24-MW06-R01	17.79	7.16	10.63
OW24-MW07-R01	15.77	6.70	9.07
OW24-MW08-R01	17.02	7.16	9.86
OW24-MW09-R01	16.44	6.49	9.95
OW24-MW10-R01	16.32	5.88	10.44
OW24-MW11-R01	16.7	5.65	11.05
OW24-PZ3D-R01	NA	6.72	NA
OW24-PZ3S-R01	NA	6.41	NA

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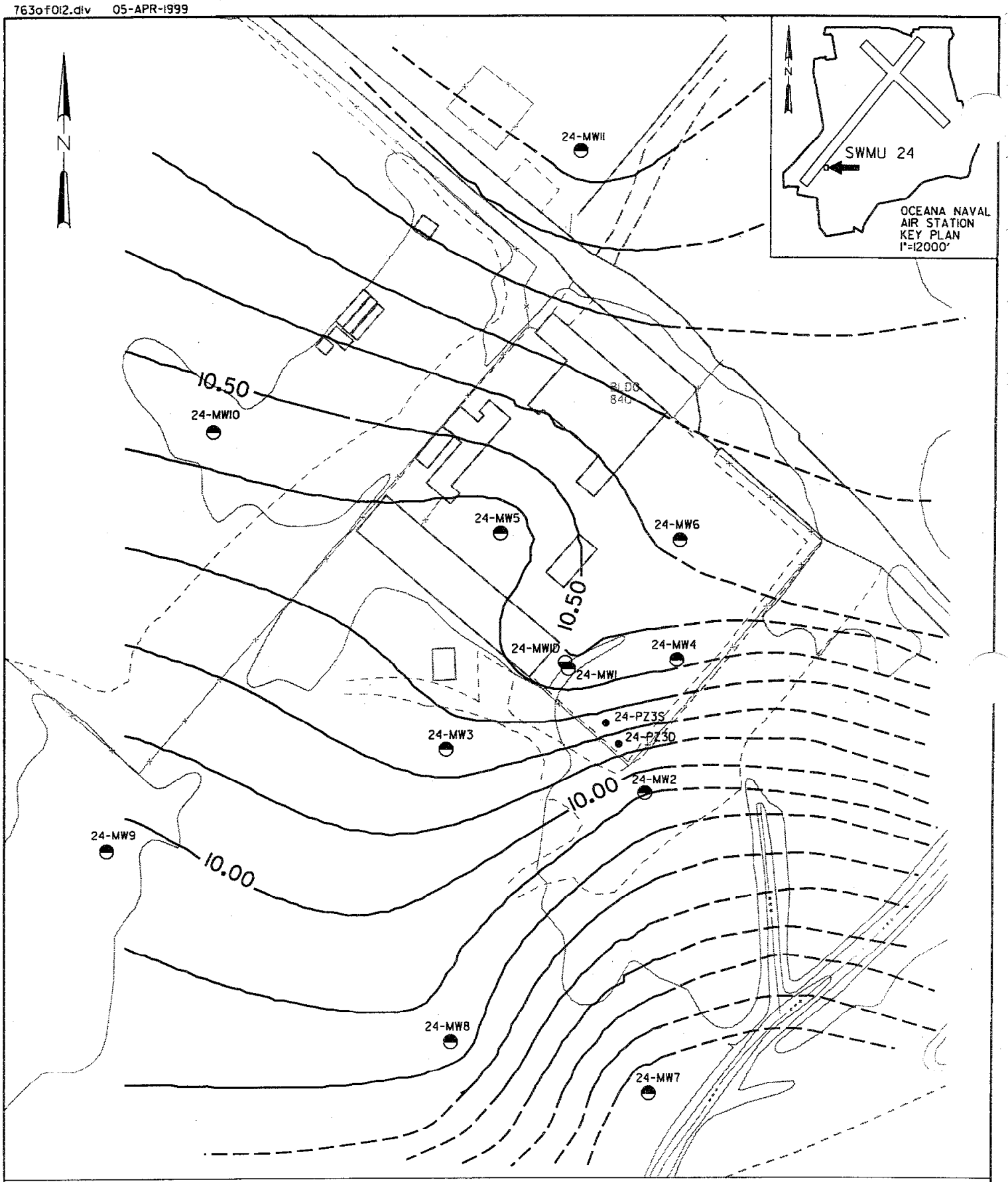

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- WATER TABLE ELEVATION CONTOUR

0 60 120 180

SCALE IN FEET

Figure 3-2
WATER TABLE ELEVATION MAP
FOR SWMU 24-NOVEMBER 1998

Naval Air Station, Oceana
Virginia Beach, Virginia

CH2MHILL

3.2 SWMU-24 Groundwater Sampling Results

Sampling results for the October-November 1998 groundwater sampling activities at SWMU-24 are documented below. The detected chemicals from the validated analytical groundwater data are located in Appendix A-2.

Fourteen groundwater samples were analyzed for TCL LC-VOCs, TCL SVOCs, TCL Pesticides and PCBs, PAHs by EPA Method 8310, TAL Dissolved Metals and Cyanide, and TAL Total Metals and Cyanide.

CH2M HILL compared the groundwater analytical results to the EPA Region III RBC screening levels for tap water and EPA MCLs for drinking water. Figure 3-3 illustrates the locations where the detected chemical concentrations exceeded screening levels or regulatory standards. Where a chemical concentration exceeded more than one screening level or regulatory standard, both exceedances were posted and labeled. Table 3-2 lists the location of the exceeding concentrations, sample collection dates, chemicals that exceeded screening limits, the analytical results, any data validation qualifiers, the detection limits, the screening levels or regulatory standards, and the exceedance quotients. The exceedance quotient is the detected concentration divided by the regulatory limit. It serves as a quick assessment of the degree to which specific chemicals exceed regulatory limits. Where a chemical exceeded more than one screening level or regulatory standard, both were tabulated.

Chemicals with non-detect values but have detection limits that exceeded regulatory screening limits for EPA Region III RBC screening levels for tap water or EPA MCLs for drinking water are tabulated in Appendix A-3.

In summary, various analytes exceeded groundwater regulatory criteria at SWMU-24 as listed below:

- Arsenic concentrations exceeded the Region III RBC for tap water in the following samples MW01 (filtered and unfiltered samples), MW02 (filtered and unfiltered samples), MW03 (unfiltered), MW04 (filtered and unfiltered samples), MW7 (filtered and unfiltered samples), MW8 (unfiltered), MW10 (filtered and unfiltered sample),

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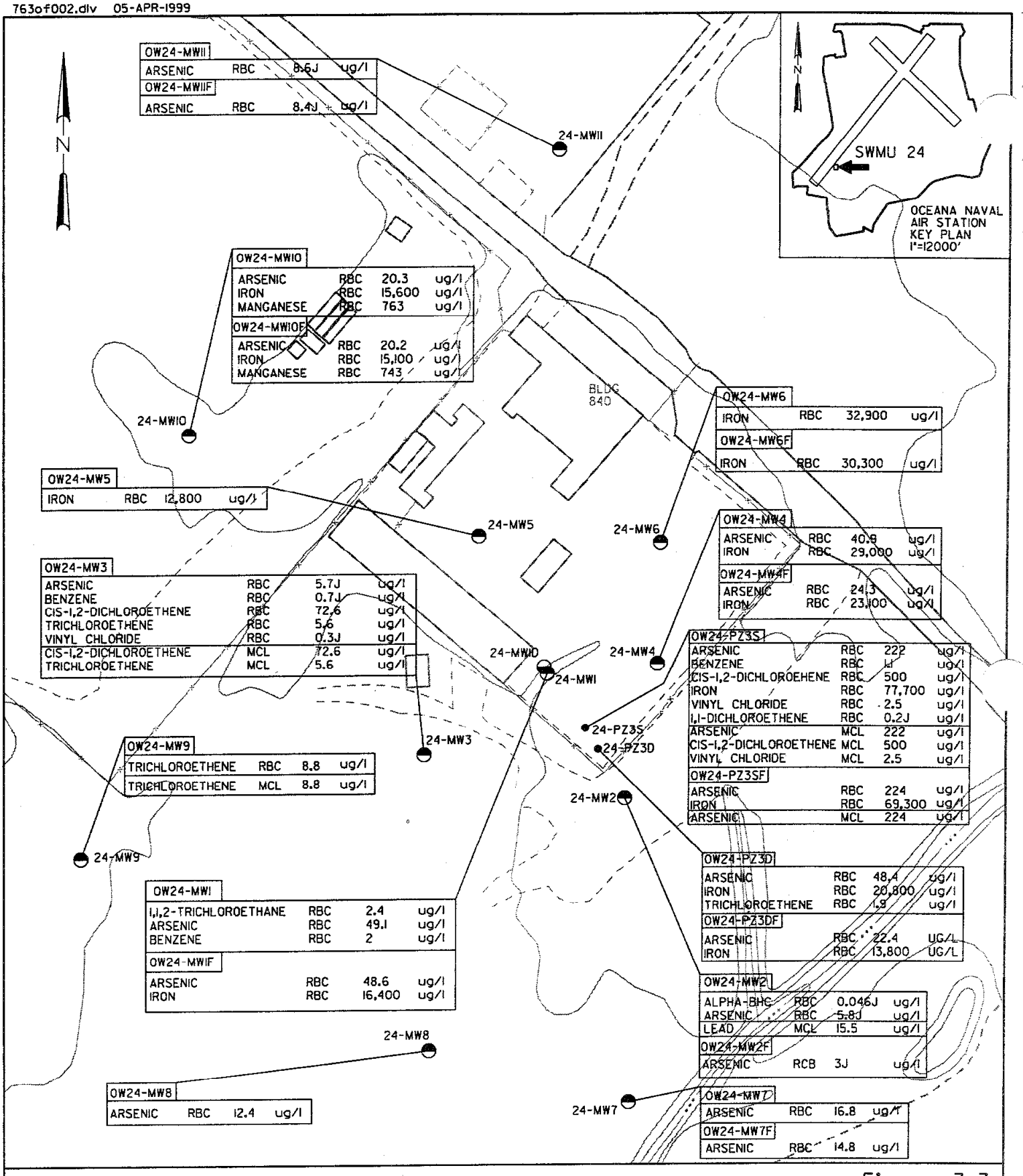

LEGEND

SHALLOW MONITORING WELL

DEEP MONITORING WELL

0 60 120 180

SCALE IN FEET

Figure 3-3
CHEMICALS DETECTED IN GROUNDWATER THAT EXCEED REGION III RCB SCREENING LEVELS FOR TAP WATER OR EPA MCLs FOR DRINKING WATER AT SWMU 24- NOVEMBER 1998

Naval Air Station, Oceana
Virginia Beach, Virginia

CH2MHILL

Table 3-2
Groundwater Exceedances of Regulatory Criteria Values
SWMU-24, Oceana Naval Air Station, Virginia Beach, Virginia

Sample ID	Date Sample Collected	Analyte	Analytical Value (ug/L)	Data Validation Qualifier	Detection Limit (ug/L)	Regulatory Criteria	Regulatory Criteria Value	Exceedance Quotient[1]
OW24-MW01-R01	10/27/1998	1,1,2-Trichloroethane	2.4		1	RBC Tap	0.19	12.6
OW24-MW01-R01	10/27/1998	Arsenic	49.1		3	RBC Tap	0.045	1091.1
OW24-MW01-R01	10/27/1998	Benzene	2		1	RBC Tap	0.36	5.6
OW24-MW01-R01	10/27/1998	Iron	17700		23.5	RBC Tap	11000	1.6
OW24-MW01F-R01	10/27/1998	Arsenic	48.6		3	RBC Tap	0.045	1080.0
OW24-MW01F-R01	10/27/1998	Iron	16400		23.5	RBC Tap	11000	1.5
OW24-MW02-R01	10/30/1998	Alpha-BHC	0.046	J	0.1	RBC Tap	0.011	4.2
		Arsenic	4.8	J	3	RBC Tap	0.045	106.7
		Lead	15.5		1.7	MCL	15	1.0
OW24-MW02PF-R01	10/30/1998	Arsenic	3	J	3	RBC Tap	0.045	66.7
OW24-MW02P-R01	10/30/1998	Arsenic	5.8	J	3	RBC Tap	0.045	128.9
OW24-MW03-R01	11/04/1998	Arsenic	5.7	J	3	RBC Tap	0.045	126.7
		Benzene	0.7	J	1	RBC Tap	0.36	1.9
		Cis-1,2-Dichloroethene	72.6		5	RBC Tap	61	1.2
						MCL	70	1.0
		Trichloroethene	5.6		1	RBC Tap	1.6	3.5
						MCL	5	1.1
		Vinyl Chloride	0.3	J	1	RBC Tap	0.019	15.8
OW24-MW04-R01	10/28/1998	Arsenic	40.9		3	RBC Tap	0.045	908.9
		Iron	29000		23.5	RBC Tap	11000	2.6
OW24-MW04F-R01	10/28/1998	Arsenic	24.3		3	RBC Tap	0.045	540.0
		Iron	23100		23.5	RBC Tap	11000	2.1
OW24-MW05-R01	10/27/1998	Iron	12800		23.5	RBC Tap	11000	1.2
OW24-MW06-R01	10/27/1998	Iron	32900		23.5	RBC Tap	11000	3.0
OW24-MW06F-R01	10/27/1998	Iron	30300		23.5	RBC Tap	11000	2.8
OW24-MW7-R01	11/06/1998	Arsenic	16.8		3	RBC Tap	0.045	373.3
OW24-MW7F-R01	11/06/1998	Arsenic	14.8		3	RBC Tap	0.045	328.9
OW24-MW8-R01	11/06/1998	Arsenic	12.4		3	RBC Tap	0.045	275.6
OW24-MW9-R01	11/06/1998	Trichloroethene	8.8		1	RBC Tap	1.6	5.5
						MCL	5	1.8
OW24-MW10-R01	11/06/1998	Arsenic	20.3		3	RBC Tap	0.045	451.1
		Iron	15600		23.5	RBC Tap	11000	1.4
		Manganese	763		1.1	RBC Tap	730	1.0
OW24-MW10F-R01	11/06/1998	Arsenic	20.2		3	RBC Tap	0.045	448.9
		Iron	15100		23.5	RBC Tap	11000	1.4
		Manganese	743		1.1	RBC Tap	730	1.0
OW24-MW11-R01	11/04/1998	Arsenic	8.1	J	3	RBC Tap	0.045	180.0
OW24-MW11F-R01	11/04/1998	Arsenic	4.8	J	3	RBC Tap	0.045	106.7
OW24-MW11PF-R01	11/04/1998	Arsenic	8.4	J	3	RBC Tap	0.045	186.7
OW24-MW11P-R01	11/04/1998	Arsenic	8.6	J	3	RBC Tap	0.045	191.1
OW24-PZ3D-R01	11/04/1998	Iron	20800		23.5	RBC Tap	11000	1.9
		Trichloroethene	1.9		1	RBC Tap	1.6	1.2
		Arsenic	48.4		3	RBC Tap	0.045	1075.6
OW24-PZ3DF-R01	11/04/1998	Arsenic	22.4		3	RBC Tap	0.045	497.8
		Iron	13800		23.5	RBC Tap	11000	1.3
OW24-PZ3S-R01	11/04/1998	1,1-Dichloroethene	0.2	J	1	RBC Tap	0.044	4.5
		Arsenic	222		3	RBC Tap	0.045	4933.3
						MCL	50	4.4
		Benzene	1.1		1	RBC Tap	0.36	3.1
		Cis-1,2-Dichloroethene	500		100	RBC Tap	61	8.2
						MCL	70	7.1
		Iron	77700		23.5	RBC Tap	11000	7.1
		Vinyl Chloride	2.5		1	RBC Tap	0.019	131.6
						MCL	2	1.3
OW24-PZ3SF-R01	11/04/1998	Arsenic	224		3	RBC Tap	0.045	4977.8
						MCL	50	4.5
		Iron	69300		23.5	RBC Tap	11000	6.3

Notes:
J - Estimated
F - Filtered Sample
P - Duplicate Sample
RBC Tap Water - EPA Region III Risk-Based Concentration for tap water
MCL - EPA Maximum Concentration Limit for drinking water
[1]Exceedance Quotient is calculated as follows: Analytical Value/Regulatory Criteria Value

MW11 (filtered and unfiltered samples), PZ3D (filtered and unfiltered samples) and PZ3S (filtered and unfiltered samples); and exceeded the EPA MCL for drinking water in sample PZ3S (filtered and unfiltered samples).

- Iron concentrations exceeded the Region III RBC for tap water in samples MW01 (filtered and unfiltered samples), MW04 (filtered and unfiltered samples), MW05, MW06 (filtered and unfiltered samples), MW10 (filtered and unfiltered samples), PZ3D (filtered and unfiltered samples) and PZ3S (filtered and unfiltered samples).
- The lead concentration exceeded the EPA MCL for drinking water in sample MW02.
- The manganese concentrations exceeded the Region III RBC for tap water in samples MW10 (filtered and unfiltered samples).
- The 1,1,2-trichloroethane concentration exceeded the Region III RBC for tap water in sample MW01.
- The benzene concentrations exceeded the Region III RBC for tap water in samples MW01, MW03, and PZ3S.
- The Alpha-BHC concentration exceeded the Region III RBC for tap water in sample MW02.
- The cis-1,2-dichloroethene concentrations exceeded the Region III RBC for tap water and EPA MCL for drinking water in samples MW03 and PZ3S.
- The trichloroethene concentrations exceeded the Region III RBC for tap water in samples MW03, MW9 and PZ3D, and exceeded the EPA MCL for drinking water in samples MW03 and MW9.
- The 1,1-dichloroethene concentration exceeded the Region III RBC for tap water in sample PZ3S.
- The vinyl chloride concentrations exceeded the Region III RBC for tap water in samples MW03 and PZ3S, and exceeded the EPA MCL for drinking water in sample PZ3S.

4.0 Conclusions and Recommendations

This section documents conclusions and recommendations for the SWMU 24 DPT groundwater study and the SWMU-wide monitoring well groundwater sampling.

4.1 Conclusions

The encouraging results of the single-well pilot test of the suggest that the NoVOCs™ technology is particularly suitable for hot-spot remediation of relatively small areas, and may be suitable for wider application at the Oceana Naval Air Station and at other contaminated sites.

Results of the SWMU 24 DPT groundwater study in and around the former NoVOCs groundwater remediation area indicate that the groundwater contains chlorinated VOCs, specifically cis1,2-DCE and TCE, at concentrations that exceed MCLs and RBCs for tap water. The residual groundwater contamination exists hydraulically downgradient of the NoVOCs™ treatment well. The highest contaminant concentrations are detected at a depth of approximately 14 feet below ground surface. The Navy has determined that the installation of a second NoVOCs™ well at SWMU 24 is not economically feasible due to the limited areal and vertical extent of cis1,2-DCE in groundwater at concentrations exceeding the MCL.

The Navy has found that the groundwater underlying the remainder of SWMU 24 contains chlorinated VOCs, specifically cis1,2-DCE, TCE, and vinyl chloride, at concentrations that exceed MCLs and RBCs for tap water. Arsenic and iron also exceed the RBC. However, the concentrations of these chemicals do not warrant active groundwater remediation.

4.2 Recommendations

The Navy and EPA plan to develop a monitored natural attenuation (MNA) plan for NAS Oceana for other sites on the activity. The general MNA plan will establish the overall MNA protocol, and individual sections of the plan will define the specific details to

implement MNA at individual sites proposed for MNA. The Navy proposes to consider SWMU 24 for inclusion in the NAS Oceana MNA plan. In addition, the Navy proposes to investigate the feasibility of localized groundwater remediation, near the PZ3 piezometer pair (shown in Figure 2-5) by injection of an oxygen-releasing-compound (ORC) or a hydrogen-releasing-compound (HRC).

4.2.1 Future Plans

The Navy will prepare human health risk assessment assumptions for this SWMU to facilitate the assessment of site-wide groundwater sampling results. These assumptions will be forwarded to the EPA program toxicologist for approval. Prior to proceeding with the risk assessment the Navy proposes to meet with the EPA and VDEQ to determine what additional data might be required in order to complete the risk assessment. The Navy will also provide a conceptual ecological model of SWMU 24 that includes physiography and proposed future land use surrounding the site. The model will be used to evaluate any potential pathways for ecological receptors and to support a management decision pertaining to ecological risks at the SWMU.

The Navy will conduct a human health risk assessment. Upon completion of the risk assessment the Navy will proceed with a Focused Feasibility Study (FFS) for the SWMU. Once a remedial alternative is selected in the FFS the Navy will prepare a Proposed Remedial Action Plan (PRAP) and a record of decision (ROD).

Appendix A-1

CSL Analytical Results of the DPT Investigation of SWMU 24

TARGET ENVIRONMENTAL SERVICES, INC.

Mobile Laboratories and Direct Push Sampling

December 05, 1998
Teresa White
CH2MHill
625 Herndon Parkway
Herndon, VA 22090

Dear Ms. White:

Enclosed please find the final analytical data report for the NAS-Oceana site, samples collected between10/26/98 and 10/24/98. Water samples were collected by direct push, and submitted to the Target mobile laboratory for GC analysis for VOC's. All samples were analyzed for chlorinated VOC's and BTEX compounds.

Each of the analyses performed has been summarized on tabular data summary pages, along with information about any dilutions performed, and an "S" or "U" flag to indicate either satisfactory or unsatisfactory QA/QC results for that sample. If a result was found to be unsatisfactory, a description of the concern or problem is noted at the bottom of the data summary form.

Following is a summary of specific concerns that may impact data quality, and a description of any corrective actions undertaken.

Initial Calibration

Initial calibration results were within acceptable limits for all contaminants of concern.

Continuing Calibration

Continuing calibration results were within acceptable limits (percent difference less than or equal to 20%) for all target compounds, with the following exceptions, for which the percent difference values exceeded the 20% limit slightly.

10/26/98 - closing CCAL -	11DCE = 22%, CT = 24%, and PCE = 22%
10/28/98 - opening CCAL -	TCE = 23%
closing CCAL -	11DCE = 21%
10/30/98 - opening CCAL -	PCE = 26%

Standards run before and after the out-of-control standards were within control limits.

Blanks

Blanks were run to confirm that sampling procedures and the instrument were not contributing false positive results to the sample analyses. No target compounds were detected in any blank.

Duplicates

Duplicate analyses of field samples were performed to evaluate precision. All duplicate results were within acceptable limits.

Dilutions

Several samples contained elevated concentrations of target compounds, and required dilute analyses to bring the instrument response within the calibration range. Analysis results that exceeded the calibration range have been flagged with an "E" flag. There were also some samples for which target analytes were detected below the reporting limit, but at values greater than the detection limit. These results have been reported as estimated values, and flagged "J".

Please call or E-mail any questions, comments, or concerns you may have.

Sincerely,

Douglas J. McInnes
Laboratory Director
Target Environmental Services, Inc.

Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	GW 1-8 (ug/L)	GW 1-14 (ug/L)	GW 1-20 (ug/L)	GW 3-8 (ug/L)	GW 3-14 (ug/L)	GW 3-20 (ug/L)	GW 5-8 (ug/L)	GW 5-14 (ug/L)	GW 5-20 (ug/L)	GW 7-8 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	ND	ND	ND	16.0	ND	ND	363-E	ND	ND	221-E
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	5.40	ND	ND
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	**10X**	**10X**	**10X**	**10X**
Benzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	N/A
Ethylbenzene	5.00	ND	ND	ND	6.47	ND	ND	ND	ND	ND	N/A
m&p-Xylenes	10.0	ND	ND	ND	9.85-J	ND	ND	ND	ND	ND	N/A
o-Xylenes	5.00	ND	ND	ND	20.3	ND	ND	ND	ND	ND	N/A
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	*

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
J: indicates result below detection limit
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit
* N/A Indicates not analyzed- not enough sample left for BTEX analysis

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: Jim E. Ould

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010 Sample Analysis Results-RE-RUNS

Compound	PQL[3] (ug/L)	GW 5-8 (ug/L)
1,1-Dichloroethene	5.00	ND
Methylene Chloride	5.00	ND
trans-1,2-Dichloroethene	5.00	ND
1,1-Dichloroethane	5.00	ND
cis-1,2-Dichloroethene	5.00	391
1,1,1-Trichloroethane	0.50	ND
Carbon Tetrachloride	0.50	ND
Trichloroethene	0.50	ND
1,1,2-Trichloroethane	0.50	ND
Tetrachloroethene	0.50	ND
Sample Condition (S,U)/Dilution (PQL)	1	30X

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
J: indicates result below detection limit
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	GW 7-14 (ug/L)	GW 7-20 (ug/L)	GW 2-8 (ug/L)	GW 2-14 (ug/L)	GW 2-20 (ug/L)	GW 4-8 (ug/L)	GW 4-14 (ug/L)	GW 4-20 (ug/L)	GW 9-8 (ug/L)	GW 9-14 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	13.0	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	49.2-J	ND	ND	16.0	ND	ND	106-E	ND	10.1	12.5
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	8.40	ND	ND	ND	ND	ND	3.51-E	ND	ND	3.44-E
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)		**10X**	**10X**	**100X**	S	S	**100X**	S	S	S	S
Benzene	5.00	ND	ND	ND	ND	ND	6.28	ND	ND	ND	ND
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.00	ND	ND	89.1	ND	ND	57.2	ND	ND	ND	ND
m&p-Xylenes	10.0	ND	ND	17.0	ND	ND	127	ND	ND	ND	ND
o-Xylenes	5.00	ND	ND	6.45	ND	ND	13.6	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: [illegible]

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010 Sample Analysis Results-RE-RUNS

Compound	PQL[3] (ug/L)	GW 2-8 (ug/L)	GW 2-8 (ug/L)	GW 4-8 (ug/L)	GW 4-14 (ug/L)	GW 9-14 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	ND	ND	49.8-J	112	ND
1,1,1-*Trichloroethane*	0.50	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND
Trichloroethene	0.50	ND	ND	ND	6.00	4.55
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	**10X**	S	**10X**	**10X**	**5X**

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	GW 9-20 (ug/L)	GW 6-8 (ug/L)	GW 6-14 (ug/L)	GW 6-20 (ug/L)	GW 13-8 (ug/L)	GW 13-14 (ug/L)	GW 13-20 (ug/L)	GW 14-8 (ug/L)	GW 14-14 (ug/L)	GW 14-20 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	4.85-J	12.8	ND	ND	9.50	ND	ND	9.80	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	ND	49.7-E	128-E	ND	ND	156-E	ND	3.84-J	113-E	ND
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	ND	0.56	0.25-J	ND	ND	11.8-E	ND	ND	7.33-E	ND
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S
Benzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylenes	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylenes	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010 Sample Analysis Results-RE-RUNS

Compound	PQL[3] (ug/L)	GW 6-8 (ug/L)	GW 6-14 (ug/L)	GW 13-14 (ug/L)	GW 14-14 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	53.5	171	149	155
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND
Trichloroethene	0.50	ND	ND	14.4	10.0
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	5X	10X	10X	10X

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: Jay S. Auld

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	24 MW-1 (ug/L)	GW 15-8 (ug/L)	GW 15-14 (ug/L)	GW 15-20 (ug/L)	GW 17-8 (ug/L)	GW 17-14 (ug/L)	GW 17-20 (ug/L)	GW 18-8 (ug/L)	GW 18-14 (ug/L)	GW 18-20 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	3.48-J	ND	3.44-J	ND	ND	ND	ND	3.51-J	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	34.1-E	ND	38.7-E	ND	ND	13.1	ND	18.2	ND	ND
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	ND	ND	0.52	ND	ND	1.18	ND	2.53-E	ND	ND
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S
Benzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.00	5.23	14.0	ND	ND	17.7	ND	ND	ND	ND	ND
m&p-Xylenes	10.0	ND	18.8	ND	ND	9.65	ND	ND	ND	ND	ND
o-Xylenes	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the Initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: [illegible]

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010 Sample Analysis Results-RE-RUNS

Compound	PQL[3] (ug/L)	24 MW-1 (ug/L)	GW 15-14 (ug/L)
1,1-Dichloroethene	5.00	ND	ND
Methylene Chloride	5.00	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND
1,1-Dichloroethane	5.00	ND	ND
cis-1,2-Dichloroethene	5.00	48.9	46.4
1,1,1-Trichloroethane	0.50	ND	ND
Carbon Tetrachloride	0.50	ND	ND
Trichloroethene	0.50	ND	ND
1,1,2-Trichloroethane	0.50	ND	ND
Tetrachloroethene	0.50	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	**5X**	**5X**

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: Stu E. Auld

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	GW 8-8 (ug/L)	GW 8-14 (ug/L)	GW 8-20 (ug/L)	GW 20-8 (ug/L)	GW 20-14 (ug/L)	GW 20-20 (ug/L)	GW 19-8 (ug/L)	GW 19-14 (ug/L)	GW 19-20 (ug/L)	GW 29-8 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	10.4	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	ND	74.0-E	ND	3.41-J	ND	ND	ND	ND	4.91-J	ND
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	ND	4.27-E	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S
Benzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylenes	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylenes	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: [signature]

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010 Sample Analysis Results-RE-RUNS

Compound	PQL[3] (ug/L)	GW 8-14 (ug/L)
1,1-Dichloroethene	5.00	ND
Methylene Chloride	5.00	ND
trans-1,2-Dichloroethene	5.00	ND
1,1-Dichloroethane	5.00	ND
cis-1,2-Dichloroethene	5.00	93.4
1,1,1-Trichloroethane	0.50	ND
Carbon Tetrachloride	0.50	ND
Trichloroethene	0.50	6.80
1,1,2-Trichloroethane	0.50	ND
Tetrachloroethene	0.50	ND
Sample Condition (S,U)/Dilution (PQL)	1	5X

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	GW 29-14 (ug/L)	GW 29-20 (ug/L)	GW 11-8 (ug/L)	GW 11-14 (ug/L)	GW 11-20 (ug/L)	GW 23-8 (ug/L)	GW 23-14 (ug/L)	GW 23-20 (ug/L)	GW 32-8 (ug/L)	GW 32-14 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	3.61-J	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	33.1-E	ND	ND	59.8-E	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	3.72-E	ND	ND	5.94E	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S
Benzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylenes	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylenes	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010 Sample Analysis Results-RE-RUNS

Compound	PQL[3] (ug/L)	GW 29-14 (ug/L)	GW 11-14 (ug/L)
1,1-Dichloroethene	5.00	ND	ND
Methylene Chloride	5.00	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND
1,1-Dichloroethane	5.00	ND	ND
cis-1,2-Dichloroethene	5.00	39.6	80.0
1,1,1-Trichloroethane	0.50	ND	ND
Carbon Tetrachloride	0.50	ND	ND
Trichloroethene	0.50	5.20	9.10
1,1,2-Trichloroethane	0.50	ND	ND
Tetrachloroethene	0.50	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	5X	5X

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy ...d	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	GW 32-20 (ug/L)	GW 36-8 (ug/L)	GW 36-14 (ug/L)	GW 36-20 (ug/L)	GW 31-8 (ug/L)	GW 31-14 (ug/L)	GW 31-20 (ug/L)	GW 10-8 (ug/L)	GW 10-14 (ug/L)	GW 10-20 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND	4.84-J	ND	ND	47.2-E	ND
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	ND	ND	ND	ND	ND	0.55	ND	ND	8.01-E	ND
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S
Benzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylenes	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylenes	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: Gary S. Auld

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010 Sample Analysis Results-RE-RUNS

Compound	PQL[3] (ug/L)	GW 10-14 (ug/L)	GW 10-14 (ug/L)
1,1-Dichloroethene	5.00	ND	ND
Methylene Chloride	5.00	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND
1,1-Dichloroethane	5.00	ND	ND
cis-1,2-Dichloroethene	5.00	70.8	ND
1,1,1-Trichloroethane	0.50	ND	ND
Carbon Tetrachloride	0.50	ND	ND
Trichloroethene	0.50	13.8-E	13.4
1,1,2-Trichloroethane	0.50	ND	ND
Tetrachloroethene	0.50	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	5X	10X

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	GW 35-8 (ug/L)	GW 35-14 (ug/L)	GW 35-20 (ug/L)	GW 28-8 (ug/L)	GW 28-14 (ug/L)	GW 28-20 (ug/L)	GW 30-8 (ug/L)	GW 30-14 (ug/L)	GW 30-20 (ug/L)	GW 25-8 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	12.5	ND	ND	ND	ND	ND	ND	11.7	ND	ND
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	ND	ND	ND	ND	1.26	ND	ND	1.17	ND	ND
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S
Benzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylenes	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylenes	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: Gary E. Arnold

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Hemdon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	GW 25-14 (ug/L)	GW 25-20 (ug/L)	GW 24-8 (ug/L)	GW 24-14 (ug/L)	GW 24-20 (ug/L)	GW 27-8 (ug/L)	GW 27-14 (ug/L)	GW 27-20 (ug/L)	GW 12-8 (ug/L)	GW 12-14 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	52.8-E	ND	ND	175-E	ND	ND	13.0	ND	ND	62.4
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	3.40-E	ND	ND	9.20-E	ND	ND	2.89-E	ND	ND	7.95
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	5X	S	S	S	S	S	5X
Benzene	5.00	ND	ND	ND	N/A	ND	ND	ND	ND	ND	N/A
Toluene	5.00	ND	ND	ND	N/A	ND	ND	ND	ND	ND	N/A
Ethylbenzene	5.00	ND	ND	ND	N/A	ND	ND	ND	ND	ND	N/A
m&p-Xylenes	10.0	ND	ND	ND	N/A	ND	ND	ND	ND	ND	N/A
o-Xylenes	5.00	ND	ND	ND	N/A	ND	ND	ND	ND	ND	N/A
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	*	S	S	S	S	S	*

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit
* N/A indicates not analyzed- not enough sample left for BTEX analysis

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010 Sample Analysis Results-RE-RUNS

Compound	PQL[3] (ug/L)	GW 25-14 (ug/L)	GW 24-14 (ug/L)	GW 27-14 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND
cis-1,2-Dichloroethene	5.00	55.8	174	ND
1,1,1-Trichloroethane	0.50	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND
Trichloroethene	0.50	4.65	15.8	5.50
1,1,2-Trichloroethane	0.50	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	5X	10X	10X

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	GW 12-20 (ug/L)	OW24-MW02 (ug/L)	GW 26-8 (ug/L)	GW 26-14 (ug/L)	GW 38-8 (ug/L)	GW 38-14 (ug/L)	GW 200-1 (ug/L)	GW 200-2 (ug/L)	GW 200-3 (ug/L)	GW 46-8 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.7-E
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S
Benzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylenes	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylenes	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010 Sample Analysis Results-RE-RUNS

Compound	PQL[3] (ug/L)	GW 46-8 (ug/L)
1,1-Dichloroethene	5.00	ND
Methylene Chloride	5.00	ND
trans-1,2-Dichloroethene	5.00	ND
1,1-Dichloroethane	5.00	ND
cis-1,2-Dichloroethene	5.00	28.8
1,1,1-Trichloroethane	0.50	ND
Carbon Tetrachloride	0.50	ND
Trichloroethene	0.50	ND
1,1,2-Trichloroethane	0.50	ND
Tetrachloroethene	0.50	ND
Sample Condition (S,U)/Dilution (PQL)	1	3X

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	GW 46-14 (ug/L)	GW 46-20 (ug/L)	GW 42-8 (ug/L)	GW 42-14 (ug/L)	GW 51-8 (ug/L)	GW 51-14 (ug/L)	GW 51-20 (ug/L)	GW 43-8 (ug/L)	GW 43-14 (ug/L)	GW 41-8 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	18.7	ND	ND	64.2-E	24.8-E	76.7-E	ND	ND	31.0	ND
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	4.61-E	ND	ND	2.63-E	ND	21.7-E	ND	ND	2.15	ND
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	5X	S
Benzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p-Xylenes	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylenes	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010 Sample Analysis Results-RE-RUNS

Compound	PQL[3] (ug/L)	GW 46-14 (ug/L)	GW 42-14 (ug/L)	GW 51-8 (ug/L)	GW 51-14 (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	ND	72.9	38.3	83.4
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND
Trichloroethene	0.50	6.11	3.15	ND	27.8
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	10X	5X	3X	15X

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: Guy E. Arnold

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	GW 41-14 (ug/L)	GW 21-8 (ug/L)	GW 21-14 (ug/L)	GW 47-8 (ug/L)	GW 47-14 (ug/L)	GW 48-8 (ug/L)	GW 48-14 (ug/L)	GW 48-20 (ug/L)	EB1030 98-S (ug/L)	EB1030 98-B (ug/L)
1,1-Dichloroethene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND	44.7-E	19.1	ND	ND	ND
1,1-Dichloroethane	5.00	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5.00	ND	ND	ND	ND	ND	387-E	257-E	ND	ND	ND
1,1,1-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.50	ND	ND	ND	ND	ND	1.18	11.5-E	ND	ND	ND
1,1,2-Trichloroethane	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	0.50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	S	S
Benzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A
Toluene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A
Ethylbenzene	5.00	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A
m&p-Xylenes	10.0	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A
o-Xylenes	5.00	ND	ND	ND	ND	ND	ND	ND	ND	N/A	N/A
Sample Condition (S,U)/Dilution (PQL)	1	S	S	S	S	S	S	S	S	*	*

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit
* N/A indicates not analyzed- not enough sample left for BTEX analysis

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010 Sample Analysis Results-RE-RUNS

Compound	PQL[3] (ug/L)	GW 48-8 (ug/L)	GW 48-14 (ug/L)
1,1-Dichloroethene	5.00	ND	ND
Methylene Chloride	5.00	ND	ND
trans-1,2-Dichloroethene	5.00	ND	ND
1,1-Dichloroethane	5.00	ND	ND
cis-1,2-Dichloroethene	5.00	588	269
1,1,1-Trichloroethane	0.50	ND	ND
Carbon Tetrachloride	0.50	ND	ND
Trichloroethene	0.50	ND	20.4
1,1,2-Trichloroethane	0.50	ND	ND
Tetrachloroethene	0.50	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	30X	30X

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Duplicate Analysis Results in ug/L

Compound	PQL[3] (ug/L)	GW 3-14 (ug/L)	GW 3-14DUP (ug/L)	% Diff	GW 6-8 (ug/L)	GW 6-8DUP (ug/L)	% Diff
1,1-Dichloroethene	5.00	ND	ND	NA	ND	ND	NA
Methylene Chloride	5.00	ND	ND	NA	ND	ND	NA
trans-1,2-Dichloroethene	5.00	ND	ND	NA	4.85	4.97	2%
1,1-Dichloroethane	5.00	ND	ND	NA	ND	ND	NA
cis-1,2-Dichloroethene	5.00	ND	ND	NA	49.7	49.5	0%
1,1,1-Trichloroethane	0.50	ND	ND	NA	ND	ND	NA
Carbon Tetrachloride	0.50	ND	ND	NA	ND	ND	NA
Trichloroethene	0.50	ND	ND	NA	0.56	0.60	7%
1,1,2-Trichloroethane	0.50	ND	ND	NA	ND	ND	NA
Tetrachloroethene	0.50	ND	ND	NA	ND	ND	NA
Sample Condition (S,U)/Dilution (PQL)		S	S		S	S	

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

ND indicates that no analyte was detected at or above the practical quantitation limit
NA indicates that the calculation is not applicable

SAMPLE NARRATIVE:

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Duplicate Analysis Results in ug/L

Compound	PQL[3] (ug/L)	GW 19-8 (ug/L)	GW 19-8DUP (ug/L)	% Diff	GW 23-20 (ug/L)	GW 23-20DUP (ug/L)	% Diff
1,1-Dichloroethene	5.00	ND	ND	NA	ND	ND	NA
Methylene Chloride	5.00	ND	ND	NA	ND	ND	NA
trans-1,2-Dichloroethene	5.00	ND	ND	NA	ND	ND	NA
1,1-Dichloroethane	5.00	ND	ND	NA	ND	ND	NA
cis-1,2-Dichloroethene	5.00	ND	ND	NA	ND	ND	NA
1,1,1-Trichloroethane	0.50	ND	ND	NA	ND	ND	NA
Carbon Tetrachloride	0.50	ND	ND	NA	ND	ND	NA
Trichloroethene	0.50	ND	ND	NA	ND	ND	NA
1,1,2-Trichloroethane	0.50	ND	ND	NA	ND	ND	NA
Tetrachloroethene	0.50	ND	ND	NA	ND	ND	NA
Sample Condition (S,U)/Dilution (PQL)		S	S		S	S	

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

ND indicates that no analyte was detected at or above the practical quantitation limit
NA indicates that the calculation is not applicable

SAMPLE NARRATIVE:

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Duplicate Analysis Results in ug/L

Compound	PQL[3] (ug/L)	GW 30-20 (ug/L)	GW 30-20 (ug/L)	% Diff	GW 35-8 (ug/L)	GW 35-8 DUP (ug/L)	% Diff
1,1-Dichloroethene	5.00	ND	ND	NA	ND	ND	NA
Methylene Chloride	5.00	ND	ND	NA	ND	ND	NA
trans-1,2-Dichloroethene	5.00	ND	ND	NA	ND	ND	NA
1,1-Dichloroethane	5.00	ND	ND	NA	ND	ND	NA
cis-1,2-Dichloroethene	5.00	ND	ND	NA	12.5	16.2	26%
1,1,1-Trichloroethane	0.50	ND	ND	NA	ND	ND	NA
Carbon Tetrachloride	0.50	ND	ND	NA	ND	ND	NA
Trichloroethene	0.50	ND	ND	NA	ND	ND	NA
1,1,2-Trichloroethane	0.50	ND	ND	NA	ND	ND	NA
Tetrachloroethene	0.50	ND	ND	NA	ND	ND	NA
Sample Condition (S,U)/Dilution (PQL)		S	S		S	S	

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

ND indicates that no analyte was detected at or above the practical quantitation limit
NA indicates that the calculation is not applicable

SAMPLE NARRATIVE:

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Duplicate Analysis Results in ug/L

Compound	PQL[3] (ug/L)	GW 26-8 (ug/L)	GW 26-8DUP (ug/L)	% Diff	GW 47-14 (ug/L)	GW 47-14DUP (ug/L)	% Diff
1,1-Dichloroethene	5.00	ND	ND	NA	ND	ND	NA
Methylene Chloride	5.00	ND	ND	NA	ND	ND	NA
trans-1,2-Dichloroethene	5.00	ND	ND	NA	ND	ND	NA
1,1-Dichloroethane	5.00	ND	ND	NA	ND	ND	NA
cis-1,2-Dichloroethene	5.00	ND	ND	NA	ND	ND	NA
1,1,1-Trichloroethane	0.50	ND	ND	NA	ND	ND	NA
Carbon Tetrachloride	0.50	ND	ND	NA	ND	ND	NA
Trichloroethene	0.50	ND	ND	NA	ND	ND	NA
1,1,2-Trichloroethane	0.50	ND	ND	NA	ND	ND	NA
Tetrachloroethene	0.50	ND	ND	NA	ND	ND	NA
Sample Condition (S,U)/Dilution (PQL)		S	S		S	S	

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

ND indicates that no analyte was detected at or above the practical quantitation limit
NA indicates that the calculation is not applicable

SAMPLE NARRATIVE:

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Duplicate Analysis Results in ug/L

Compound	PQL[3] (ug/L)	GW 2-20 (ug/L)	GW 2-20DUP (ug/L)	% Diff	GW 8-14 (ug/L)	GW 8-14 (ug/L)	% Diff
Benzene	5.00	ND	ND	NA	ND	ND	NA
Toluene	5.00	ND	ND	NA	ND	ND	NA
Ethylbenzene	5.00	ND	ND	NA	ND	ND	NA
m&p-Xylenes	10.0	ND	ND	NA	ND	ND	NA
o-Xylenes	5.00	ND	ND	NA	ND	ND	NA
Sample Condition (S,U)/Dilution (PQL)		S	S		S	S	

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

ND indicates that no analyte was detected at or above the practical quantitation limit
NA indicates that the calculation is not applicable

SAMPLE NARRATIVE:

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Duplicate Analysis Results in ug/L

Compound	PQL[3] (ug/L)	GW 15-8 (ug/L)	GW 15-8DUP (ug/L)	% Diff	GW 51-8 (ug/L)	GW 51-8DUP (ug/L)	% Diff
Benzene	5.00	ND	ND	NA	ND	ND	NA
Toluene	5.00	ND	ND	NA	ND	ND	NA
Ethylbenzene	5.00	14.0	14.2	1%	ND	ND	NA
m&p-Xylenes	10.0	18.8	17.7	6%	ND	ND	NA
o-Xylenes	5.00	ND	ND	NA	ND	ND	NA
Sample Condition (S,U)/Dilution (PQL)		S	S		S	S	

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

ND indicates that no analyte was detected at or above the practical quantitation limit
NA indicates that the calculation is not applicable

SAMPLE NARRATIVE:

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Duplicate Analysis Results in ug/L

Compound	PQL[3] (ug/L)	GW 28-8 (ug/L)	GW 28-8DUP (ug/L)	% Diff	GW 35-14 (ug/L)	GW 35-14DUP (ug/L)	% Diff
Benzene	5.00	ND	ND	NA	ND	ND	NA
Toluene	5.00	ND	ND	NA	ND	ND	NA
Ethylbenzene	5.00	ND	ND	NA	ND	ND	NA
m&p-Xylenes	10.0	ND	ND	NA	ND	ND	NA
o-Xylenes	5.00	ND	ND	NA	ND	ND	NA
Sample Condition (S,U)/Dilution (PQL)		S	S		S	S	

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: *Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable*

ND indicates that no analyte was detected at or above the practical quantitation limit
NA indicates that the calculation is not applicable

SAMPLE NARRATIVE:

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Duplicate Analysis Results in ug/L

Compound	PQL[3] (ug/L)	GW 42-8 (ug/L)	GW 42-8DUP (ug/L)	% Diff	GW 7-14 (ug/L)	GW 7-14 (ug/L)	% Diff
Benzene	5.00	ND	ND	NA	ND	ND	NA
Toluene	5.00	ND	ND	NA	ND	ND	NA
Ethylbenzene	5.00	ND	ND	NA	ND	ND	NA
m&p-Xylenes	10.0	ND	ND	NA	ND	ND	NA
o-Xylenes	5.00	ND	ND	NA	ND	ND	NA
Sample Condition (S,U)/Dilution (PQL)		S	S		S	S	

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

ND indicates that no analyte was detected at or above the practical quantitation limit
NA indicates that the calculation is not applicable

SAMPLE NARRATIVE:

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Duplicate Analysis Results in ug/L

Compound	PQL[3] (ug/L)	GW 48-20 (ug/L)	GW 48-20DUP (ug/L)	% Diff
Benzene	5.00	ND	ND	NA
Toluene	5.00	ND	ND	NA
Ethylbenzene	5.00	ND	ND	NA
m&p-Xylenes	10.0	ND	ND	NA
o-Xylenes	5.00	ND	ND	NA
Sample Condition (S,U)/Dilution (PQL)		S	S	

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable

ND indicates that no analyte was detected at or above the practical quantitation limit
NA indicates that the calculation is not applicable

SAMPLE NARRATIVE:

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	625 Herndon Parkway
Samples Analyzed:	10/26-11/15/98	Analyzed by:	Stu Johnson Jr.		Herdon, VA
Samples Reported:	10/26-11/15/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	1.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	703-481-0980

USEPA Method 3810/8010-8020 Sample Analysis Results

Compound	PQL[3] (ug/L)	24PZ 3S (ug/L)	24PZ 3D (ug/L)
1,1-Dichloroethene	5.00	7.77	7.00
Methylene Chloride	5.00	ND	ND
trans-1,2-Dichloroethene	5.00	3.41 J	47.3 E
1,1-Dichloroethane	5.00	ND	ND
cis-1,2-Dichloroethene	5.00	29.8 E	339 E
1,1,1-Trichloroethane	0.50	ND	ND
Carbon Tetrachloride	0.50	ND	ND
Trichloroethene	0.50	1.68	0.57
1,1,2-Trichloroethane	0.50	ND	ND
Tetrachloroethene	0.50	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S
Benzene	5.00	ND	ND
Toluene	5.00	ND	ND
Ethylbenzene	5.00	ND	ND
m&p-Xylenes	10.0	ND	ND
o-Xylenes	5.00	ND	ND
Sample Condition (S,U)/Dilution (PQL)	1	S	S

S: Satisfactory, U: Unsatisfactory
U: see sample narrative
Dilution: numerical dilution factor used to quantitate analyte concentrations within the range of the initial calibration curve

[3] PQL: Practical quantitation limit using the initial calibration curve low point and dilution factors where applicable
ND indicates that no analyte was detected at or above the practical quantitation limit

SAMPLE NARRATIVE: samples flagged with "J" indicates result below detection limit, although reported, result is estimated
samples flagged with "E" indicates result exceeded calibration range, although reported, result is estimated

Quality Control Analyst: _____

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Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	Herdon Va.
Samples Analyzed:	10/26-11/13/98	Analyzed by:	Stu Johnson Jr.		0
Samples Reported:	10/26-11/13/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	0.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	0

USEPA Method 3810-8010 Initial Calibration 10/26/98

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
AREA COUNTS										
1nd Level Standard	21.38	0.880	0.870	0.570	0.360	25.97	117.1	11.44	0.320	49.8
2rd Level Standard	37.16	1.38	2.000	1.540	0.690	65.27	273.6	25.68	0.61	119.6
3th Level Standard	48.97	2.91	3.62	2.59	1.020	103.6	438.6	42.6	1.03	187.1
CONCENTRATION										
1nd Level Standard	5.00	5.00	5.00	5.00	5.00	0.50	0.50	0.50	0.50	0.50
2rd Level Standard	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
3th Level Standard	20.0	20.0	20.0	20.0	20.0	2.00	2.00	2.00	2.00	2.00
CALIBRATION FACTORS										
1nd Level Standard	4.276	0.176	0.174	0.114	0.072	51.9	234.1	22.88	0.64	99.7
2rd Level Standard	3.716	0.138	0.200	0.154	0.069	65.3	273.6	25.68	0.61	119.6
3th Level Standard	2.449	0.146	0.181	0.130	0.051	51.8	219.3	21.29	0.52	93.6
AVG. CAL. FACTOR	3.4802	0.1532	0.1850	0.1325	0.0640	56.337	242.330	23.282	0.588	104.285
STD. DEV. OF CAL. FAC.	0.936	0.020	0.013	0.020	0.011	7.737	28.065	2.225	0.065	13.619
% RSD	26.9%	13.1%	7.3%	15.2%	17.7%	13.7%	11.6%	9.6%	11.1%	13.1%

USEPA Method 3810-8020 Initial Calibration 11/9/98

STANDARD ANALYTES	Benzene	Toluene	Ethylbenzene	m&p-Xylene	o-Xylene
AREA COUNTS					
1st Level Standard	0.27	0.25	0.22	0.42	0.23
2nd Level Standard	0.89	0.88	0.87	1.70	0.79
3rd Level Standard	1.73	1.78	1.71	3.21	1.54
4th Level Standard	3.19	3.19	3.30	6.20	2.26
5th Level Standard	4.46	4.63	4.84	9.31	3.75
CONCENTRATIONS					
1st Level Standard	5.00	5.00	5.00	10.0	5.00
2nd Level Standard	25.0	25.0	25.0	50.0	25.0
3rd Level Standard	50.0	50.0	50.0	100	50.0
4th Level Standard	75.0	75.0	75.0	150	75.0
5th Level Standard	100	100	100	200	100
CALIBRATION FACTORS					
1st Level Standard	0.0540	0.0500	0.0440	0.0420	0.0460
2nd Level Standard	0.0356	0.0352	0.0348	0.0340	0.0316
3rd Level Standard	0.0346	0.0356	0.0342	0.0321	0.0308
4th Level Standard	0.0425	0.0425	0.0440	0.0413	0.0304
5th Level Standard	0.0446	0.0463	0.0484	0.0466	0.0375
AVG. CAL. FACTOR	0.0423	0.0419	0.0411	0.0392	0.0353
STD. DEV. OF CAL. FAC.	0.0078	0.0065	0.0063	0.0060	0.0067
% RSD	18.6%	15.5%	15.3%	15.3%	18.9%

Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	Herdon Va.
Samples Analyzed:	10/26-11/13/98	Analyzed by:	Stu Johnson Jr.		0
Samples Reported:	10/26-11/13/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	0.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	0

USEPA Method 3810-8010 Continuing Calibration Check 10/26/98

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	31.070	1.640	1.750	1.430	0.710	54.800	229.960	24.320	0.560	123.510
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	3.107	0.164	0.175	0.14300	0.071	54.8	229.96	24.32	0.56	123.51
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	11%	7%	5%	8%	11%	3%	5%	4%	5%	18%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

USEPA Method 3810-8010 Continuing Calibration Check 10/26/98-closing

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	27.160	1.570	1.950	1.440	0.610	45.520	183.880	20.250	0.660	81.730
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	2.716	0.157	0.195	0.144	0.061	45.52	183.88	20.25	0.6600	81.73
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	22%	3%	5%	9%	5%	19%	24%	13%	12%	22%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	Herdon Va.
Samples Analyzed:	10/26-11/13/98	Analyzed by:	Stu Johnson Jr.		0
Samples Reported:	10/26-11/13/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	0.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	0

USEPA Method 3810-8010 Continuing Calibration Check 10/27/98

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	29.570	1.440	1.840	1.250	0.580	57.100	230.610	22.600	0.500	102.450
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	2.957	0.144	0.184	0.12500	0.058	57.1	230.61	22.6	0.5	102.45
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	15%	6%	1%	6%	9%	1%	5%	3%	15%	2%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

USEPA Method 3810-8010 Continuing Calibration Check 10/27/98-closing

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	32.230	1.670	1.670	1.380	0.750	63.850	243.860	27.340	0.680	113.420
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	3.223	0.167	0.167	0.138	0.075	63.85	243.86	27.34	0.6800	113.42
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	7%	9%	10%	4%	17%	13%	1%	17%	16%	9%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	Herdon Va.
Samples Analyzed:	10/26-11/13/98	Analyzed by:	Stu Johnson Jr.		0
Samples Reported:	10/26-11/13/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	0.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	0

USEPA Method 3810-8010 Continuing Calibration Check 10/28/98

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	33.610	1.690	1.670	1.360	0.630	64.580	266.000	28.700	0.580	125.000
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	3.361	0.169	0.167	0.13600	0.063	64.58	266	28.7	0.58	125
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	3%	10%	10%	3%	2%	15%	10%	23%	1%	20%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

USEPA Method 3810-8010 Continuing Calibration Check 10/28/98-closing

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	27.400	1.660	2.020	1.110	0.610	46.100	200.500	19.820	0.630	82.940
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	2.74	0.166	0.202	0.111	0.061	46.1	200.5	19.82	0.6300	82.94
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	21%	8%	9%	16%	5%	18%	17%	15%	7%	20%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	Herdon Va.
Samples Analyzed:	10/26-11/13/98	Analyzed by:	Stu Johnson Jr.		0
Samples Reported:	10/26-11/13/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	0.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	0

USEPA Method 3810-8010 Continuing Calibration Check 10/29/98

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	28.000	1.580	1.740	1.370	0.640	61.320	234.970	19.720	0.570	123.020
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	2.8	0.158	0.174	0.13700	0.064	61.32	234.97	19.72	0.57	123.02
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	20%	3%	6%	3%	0%	9%	3%	15%	3%	18%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

USEPA Method 3810-8010 Continuing Calibration Check 10/29/98-closing

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	31.840	1.680	1.990	1.140	0.620	53.230	241.000	19.350	0.510	94.790
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	3.184	0.168	0.199	0.114	0.062	53.23	241	19.35	0.5100	94.79
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	9%	10%	8%	14%	3%	6%	1%	17%	13%	9%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	Herdon Va.
Samples Analyzed:	10/26-11/13/98	Analyzed by:	Stu Johnson Jr.		0
Samples Reported:	10/26-11/13/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	0.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	0

USEPA Method 3810-8010 Continuing Calibration Check 10/30/98

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	29.620	1.580	1.850	1.080	0.550	53.230	233.000	18.710	0.610	77.010
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	2.962	0.158	0.185	0.10800	0.055	53.23	233	18.71	0.61	77.01
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	15%	3%	0%	18%	14%	6%	4%	20%	4%	26%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

USEPA Method 3810-8010 Continuing Calibration Check 10/30/98-closing

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	36.800	1.480	1.930	1.430	0.610	61.860	287.100	25.200	0.620	117.600
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	3.68	0.148	0.193	0.143	0.061	61.86	287.1	25.2	0.6200	117.6
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	6%	3%	4%	8%	5%	10%	18%	8%	5%	13%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	Herdon Va.
Samples Analyzed:	10/26-11/13/98	Analyzed by:	Stu Johnson Jr.		0
Samples Reported:	10/26-11/13/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	0.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	0

USEPA Method 3810-8010 Continuing Calibration Check 11/2/98

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	29.660	1.790	1.770	1.290	0.620	54.800	218.000	25.170	0.580	110.350
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	2.966	0.179	0.177	0.12900	0.062	54.8	218	25.17	0.58	110.35
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	15%	17%	4%	3%	3%	3%	10%	8%	1%	6%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

USEPA Method 3810-8010 Continuing Calibration Check 11/2/98-closing

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	29.890	1.430	1.600	1.220	0.690	49.010	212.550	22.000	0.620	99.020
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	2.989	0.143	0.16	0.122	0.069	49.01	212.55	22	0.6200	99.02
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	14%	7%	14%	8%	8%	13%	12%	6%	5%	5%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	Herdon Va.
Samples Analyzed:	10/26-11/13/98	Analyzed by:	Stu Johnson Jr.		0
Samples Reported:	10/26-11/13/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	0.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	0

USEPA Method 3810-8010 Continuing Calibration Check 11/3/98-opening

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	32.900	1.610	1.680	1.360	0.630	61.930	251.340	26.610	0.570	115.160
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	3.29	0.161	0.168	0.13600	0.063	61.93	251.34	26.61	0.57	115.16
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	5%	5%	9%	3%	2%	10%	4%	14%	3%	10%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

USEPA Method 3810-8010 Continuing Calibration Check 11/3/98-closing

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	28.640	1.530	1.900	1.510	0.580	60.520	229.100	22.320	0.620	98.400
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	2.864	0.153	0.19	0.151	0.058	60.52	229.1	22.32	0.6200	98.4
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	18%	0%	3%	14%	9%	7%	5%	4%	5%	6%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	Herdon Va.
Samples Analyzed:	10/26-11/13/98	Analyzed by:	Stu Johnson Jr.		0
Samples Reported:	10/26-11/13/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	0.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	0

USEPA Method 3810-8010 Continuing Calibration Check 11/3/98

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	32.900	1.610	1.680	1.360	0.630	61.930	251.340	26.610	0.570	115.160
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	3.29	0.161	0.168	0.13600	0.063	61.93	251.34	26.61	0.57	115.16
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	5%	5%	9%	3%	2%	10%	4%	14%	3%	10%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

USEPA Method 3810-8010 Continuing Calibration Check 11/3/98-closing

STANDARD ANALYTES	11DCE	MeCl2	t12DCE	11DCA	c12DCE	111TCA	CT	TCE	112TCA	PCE
Continuing Area Count	28.640	1.530	1.900	1.510	0.580	60.520	229.100	22.320	0.620	98.400
Concentration	10.0	10.0	10.0	10.0	10.0	1.00	1.00	1.00	1.00	1.00
Continuing Cal Factor	2.864	0.153	0.19	0.151	0.058	60.52	229.1	22.32	0.6200	98.4
Average Cal Factor (Initial)	3.4802	0.1532	0.1850	0.1325	0.0640	56.3367	242.3300	23.2817	0.5883	104.2850
Percent Difference	18%	0%	3%	14%	9%	7%	5%	4%	5%	6%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

USEPA Method 3810-8020 Continuing Calibration Check 11/9/98-closing

STANDARD ANALYTES	Benzene	Toluene	Ethybenzene	m&p-Xylene	o-Xylene
Continuing Area Count	1.80	1.75	1.94	3.63	1.47
Standard Area Count	1.73	1.78	1.71	3.21	1.54
Percent Difference	4%	-2%	13%	13%	-5%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	Herdon Va.
Samples Analyzed:	10/26-11/13/98	Analyzed by:	Stu Johnson Jr.		0
Samples Reported:	10/26-11/13/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	0.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	0

USEPA Method 3810-8020 Continuing Calibration Check 11/11/98-opening

STANDARD ANALYTES	Benzene	Toluene	Ethyl benzene	m&p-Xylene	o-Xylene
Continuing Area Count	1.80	1.75	1.94	3.63	1.47
Standard Area Count	1.73	1.78	1.71	3.21	1.54
Percent Difference	4%	-2%	13%	13%	-5%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

USEPA Method 3810-8020 Continuing Calibration Check 11/11/98

STANDARD ANALYTES	Benzene	Toluene	Ethybenzene	m&p-Xylene	o-Xylene
Continuing Area Count	1.74	1.87	1.57	2.91	1.35
Standard Area Count	1.73	1.78	1.71	3.21	1.54
Percent Difference	1%	5%	-8%	-9%	-12%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

Samples Collected:	10/26-11/4/98	Collected by:	Randy Brand	Client:	CH2MHill
Samples Received:	10/26-11/5/98	Received by:	Stu Johnson Jr.	Client Address:	Herdon Va.
Samples Analyzed:	10/26-11/13/98	Analyzed by:	Stu Johnson Jr.		0
Samples Reported:	10/26-11/13/98	Reported by:	Stu Johnson Jr.		
Project Identification:	NAS OCEANA	Report Revision:	0.0	Client Contact:	Teresa White
Target Job Code:	CHH10138	Method Deviations:	None	Client Phone:	703-471-6405
Purchase Order:	N/A	Sampling Method:	GEOPROBE	Client Fax:	0

USEPA Method 3810-8020 Continuing Calibration Check 11/11/98-closing

STANDARD ANALYTES	Benzene	Toluene	Ethybenzene	m&p-Xylene	o-Xylene
Continuing Area Count	1.98	1.94	1.98	3.77	1.46
Standard Area Count	1.73	1.78	1.71	3.21	1.54
Percent Difference	14%	9%	16%	17%	-5%
QC Range	+/- 20%	+/- 20%	+/- 20%	+/- 20%	+/- 20%

TARGET LABORATORIES

10555 Guilford Rd. Suite 127, Jessup, Md 20794
Office: 301-497-6400 Fax: 301-497-4440

CHAIN-OF-CUSTODY RECORD

JOB CODE: CHH10138

CLIENT: CH2M HILL
ADDRESS: HERNDON, VA
PHONE: 703-471-6405 x 4321 FAX:
CLIENT PROJECT #: PROJECT MANAGER: ROBINSON

DATE: 10/26/98 PAGE 1 OF
P.O.# :
LOCATION: NAS OCEANA
COLLECTOR: RANDY BRAND DATE OF COLLECTION: 10/26/98

Sample Number	Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8260	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	TOC	BOD	LEAD 239.2	pH	Ignitability	Metals 6000/7000	Reactivity	Preservative (Y/N)	FIELD NOTES	Total Number of Containers	Laboratory Note Number
GW 1-8	8'	1115	GW	40ml VOA	X																		Heavy sediment (SILTY)	2	✓
GW 1-14	14'	1125	H2O	40ml VOA	X																		SILTY	2	✓
GW 1-20	20'	1144	H2O	40ml VOA	X																		SILTY	2	✓
GW 3-8	8'	1230	H2O	40ml VOA	X																		SILTY	2	✓
GW 3-14	14'	1315	H2O																				SILTY	2	✓
GW 3-20	20'	1345	H2O																				SILTY	2	✓
GW 5-8	8'	1440	H2O																				SILTY	2	✓
GW 5-14	14'		"																				"	2	✓
GW 5-20	20'		"																				"	2	✓
GW 7-8	8'		"																				"	2	✓
GW 7-14	14'		"																				"	2	✓
GW 7-20	20'		"																				"	2	✓
																							"		
																							"		
																							"		
																							"		
																							"		

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
Randy Brand	10/26/98 1801	[signature]	10/27/98 1810
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE RECEIPT	
Total Number of Containers	12
Chain of Custody Seals Y/N NA	
Seals Intact? Y/N NA	
Received Good Cond./Cold	
Notes:	

LABORATORY NOTES:

TARGET LABORATORIES

10555 Guilford Rd. Suite 127, Jessup, Md 20794
Office: 301-497-6400 Fax: 301-497-4440

CHAIN-OF-CUSTODY RECORD

JOB CODE: CHH 10138

CLIENT: CH2M HILL
ADDRESS: HERNDON VA
PHONE: (703) 471-6405 x4321 FAX:
CLIENT PROJECT #: PROJECT MANAGER: Robinson

DATE: 10/27/98 PAGE 1 OF
P.O.# :
LOCATION: NAS OCEANIA
COLLECTOR: RANDY BRAND DATE OF COLLECTION: 10/27/98

Sample Number	(FT) Depth	Time	Sample Type	Container Type	ANALYSES VOA 601/8010	VOA 602/8020	VOA 624/8260	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (o & d)	PNA 610/8100	PEST/PCBs 8080	TOC	BOD	LEAD 239.2	pH	Ignitability	Metals 6000/7000	Reactivity	Preservative (Y/N)	FIELD NOTES	Total Number of Containers	Laboratory Note Number
GW9-8	8	0820	H2O	40mL VOA	X																		SILTY	2	
-14	14	0840																						2	
-20	20	0850																						2	
GW4-8	8	0920																					Heavy Silt + SMELLY	2	
GW4-14	14	0938																					SILTY	2	
GW4-20	20	1030																					"	2	
GW2-8	8	1050																					" + SMELLY	2	
GW2-14	14	1110																					"	2	
GW2-20	20	1140																					"	2	
GW6-8	8	1205																					"	2	
GW6-14	14	1220																					"	2	
GW6-20	20	1230																					"	2	
GW13-8	8	1400																					"	2	
-14	14																						"	2	
-20	20																						"	2	
GW14-8	8	1435																					"	2	
-14	14	1445																					"	2	
-20	20	1455																					"	2	

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
[signature]	10/27/98 1500	[signature]	10/27/98 1730
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE RECEIPT	
Total Number of Containers	36
Chain of Custody Seals Y/N NA	
Seals Intact? Y/N NA	
Received Good Cond./Cold	

Notes:

LABORATORY NOTES:

TARGET LABORATORIES

10555 Guilford Rd. Suite 127, Jessup, Md 20794
Office: 301-497-6400 Fax: 301-497-4440

CHAIN-OF-CUSTODY RECORD

JOB CODE: CHM 10138

CLIENT: CH2M HILL
ADDRESS: HERNDON VA
PHONE: (703) 471-6405 x4321 FAX:
CLIENT PROJECT #: PROJECT MANAGER: ROBINSON

DATE: 10/27/98 PAGE 2 OF 1
P.O.# :
LOCATION: NAS OCEANA
COLLECTOR: RANDY BRAND DATE OF COLLECTION: 10/27/98

Sample Number	(FT) Depth	Time	Sample Type	Container Type	ANALYSES: VOA 601/8010	VOA 602/8020	VOA 624/8260	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	PNA 610/8100	PEST/PCBs 8080	TOC	BOD	LEAD 239.2	pH	Ignitability	Metals 6000/7000	Reactivity	Preservative (Y/N)	FIELD NOTES	Total Number of Containers	Laboratory Note Number
~~GW~~ 34MW-1	—	1513	H2O	40ML VOA	X																	MONITORING WELL SAMPLE	2	✓
GW 15-8	8-	1555																				SILTY	2	✓
GW 15-14	14	1555																				"	2	✓
GW 15-20	20	1615																				"	2	✓
GW 17-8	8	1705																				"	2	✓
GW 17-14	14	1715																				"	2	✓
GW17-20	20-	1730																				"	2	✓

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
[signature]	10/27/98 1730	[signature]	10/27/98 1730
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE RECEIPT	
Total Number of Containers	
Chain of Custody Seals Y/N NA	
Seals Intact? Y/N NA	
Received Good Cond./Cold	
Notes:	

LABORATORY NOTES:

TARGET LABORATORIES

10555 Guilford Rd. Suite 127, Jessup, Md 20794
Office: 301-497-6400 Fax: 301-497-4440

CHAIN-OF-CUSTODY RECORD

JOB CODE: QHH 10138

CLIENT: CH2M HILL
ADDRESS: HERNDON VA
PHONE: (703) 471-6405 x 4321 FAX:
CLIENT PROJECT #: PROJECT MANAGER: ROBINSON

DATE: 10/28/98 PAGE 1 OF 2
P.O.# :
LOCATION: NAS OCEANA
COLLECTOR: RANDY BRAND DATE OF COLLECTION: 10/28/98

Sample Number	(FT) Depth	Time	Sample Type	Container Type	ANALYSES: VOA 601/8010	VOA 602/8020	VOA 624/8260	Semi. Vol. 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (o & d)	PNA 610/8100	PEST/PCBs 8080	TOC	BOD	LEAD 239.2	pH	Ignitability	Metals 6000/7000	Reactivity	Preservative (Y/N)	FIELD NOTES	Total Number of Containers	Laboratory Note Number
GW18-8	8	0840	H2O	40mL VOA	X																		SILTY	2	✓
-14	14																						SOME SILT	2	✓
-20	20																						" "	2	✓
GW8-8	8	0945																					SILTY	2	✓
-14	14																						"	2	✓
-20	20																						"	2	✓
GW20-8	8	1050																					"	2	✓
-14	14	1050																					"	2	✓
-20	20	1110																					"	2	✓
GW19-8	8	1210																					"	2	✓
-14	14	1210																					"	2	✓
-20	20	1210																					"	2	✓
GW29-8	8	1320																					"	2	✓
-14	14	1320																					"	2	✓
-20	20	1320																					"	2	✓
GW11-8	8	1430																					"	2	✓
-14	14																						"	2	✓
-20	20																						"	2	✓

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
[signature]	10/28/98 1500	[signature]	10/28/98
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE RECEIPT	
Total Number of Containers	36
Chain of Custody Seals Y/N NA	
Seals Intact? Y/N NA	
Received Good Cond./Cold	

Notes:

LABORATORY NOTES:

TARGET LABORATORIES

10555 Guilford Rd. Suite 127, Jessup, Md 20794
Office: 301-497-6400 Fax: 301-497-4440

CHAIN-OF-CUSTODY RECORD

JOB CODE: CHH10138

CLIENT: CH2M HILL
ADDRESS: HERNDON VA
PHONE: (703) 471-6405 x4321 FAX:
CLIENT PROJECT #: PROJECT MANAGER: ROBINSON

DATE: 10/28/98 PAGE 2 OF 2
P.O.# :
LOCATION: NAS OCEANA
COLLECTOR: RANDY BRAND DATE OF COLLECTION: 10/28/98

Sample Number	Depth (Ft)	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8260	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	PNA 610/8100	PEST/PCBs 8080	TOC	BOD	LEAD 239.2	pH	Ignitability	Metals 6000/7000	Reactivity	Preservative (Y/N)	FIELD NOTES	Total Number of Containers	Laboratory Note Number
GW 23-8	8	1530	H2O	40ml VOA	X																	SILTY	2	✓
-14	14	1540																				"	2	✓
-20	20	1600																				"	2	✓
GW 32-8	8	1640																				"	2	✓
-14	14	1640																				"	2	✓
-20	20	1650																				"	2	✓

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
[signature]	10/28/98 1740	[signature]	10/28/98
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE RECEIPT	
Total Number of Containers	
Chain of Custody Seals Y/N NA	
Seals Intact? Y/N NA	
Received Good Cond./Cold	
Notes:	

LABORATORY NOTES:

TARGET LABORATORIES

10555 Guilford Rd. Suite 127, Jessup, Md 20794
Office: 301-497-6400 Fax: 301-497-4440

CHAIN-OF-CUSTODY RECORD
JOB CODE: CH4 10138

CLIENT: CH2M HILL
ADDRESS: HERNDON VA
PHONE: (703) 471-6405 x4321 FAX:
CLIENT PROJECT #: PROJECT MANAGER: ROBINSON

DATE: 10/29/98 PAGE 1 OF 2
P.O.# :
LOCATION: NAS OCEANA
COLLECTOR: RANDY BEAND DATE OF COLLECTION: 10/29/98

Sample Number	(FT) Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8260	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	TOC	BOD	LEAD 239.2	pH	Ignitability	Metals 6000/7000	Reactivity	Preservative (Y/N)	FIELD NOTES	Total Number of Containers	Laboratory Note Number
GW36-8	8	0720	H2O	40 ml VOA	X																		Silty	2	✓
-14	14	0735																					"	2	✓
-20	20	0745																					"	2	✓
GW31-8	8	0835																					"	2	✓
-14	14	0835																					"	2	✓
-20	20	0910																					"	2	✓
GW10-8	8	0950																					"	2	✓
-14	14	0950																					"	2	✓
-20	20	1010																					"	2	✓
GW35-8	8	1100																					"	2	✓
-14	14	1100																					"	2	✓
-20	20	1120																					" (RESAMPLE)	2	✓
GW2-8	8	1215																					"	2	✓
GW28-8	8	1240																					"	2	✓
-14	14	1330																					"	2	✓
-20	20	1330																					"	2	✓
GW30-8	8	1410																					"	2	✓
-14	14	1415																					"	2	✓

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
Teresa [illegible]	10/29/98 1500	[illegible]	10/29/98
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE RECEIPT	
Total Number of Containers	36
Chain of Custody Seals Y/N NA	
Seals Intact? Y/N NA	
Received Good Cond./Cold	

Notes:

LABORATORY NOTES:

TARGET LABORATORIES

10555 Guilford Rd. Suite 127, Jessup, Md 20794
Office: 301-497-6400 Fax: 301-497-4440

CHAIN-OF-CUSTODY RECORD

JOB CODE: CHHID 38

CLIENT: CH2M HILL
ADDRESS: HERNDON VA
PHONE: (703) 471-6405 x 4324 FAX:
CLIENT PROJECT #: PROJECT MANAGER: Robinson

DATE: 10/29/98 PAGE 2 OF 2
P.O.# :
LOCATION: NAS OCEANA
COLLECTOR: RANDY BRAND DATE OF COLLECTION: 10/29/98

Sample Number	(FT) Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8260	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	PNA 610/8100	PEST/PCBs 8080	TOC	BOD	LEAD 239.2	pH	Ignitability	Metals 6000/7000	Reactivity	Preservative (Y/N)	FIELD NOTES	Total Number of Containers	Laboratory Note Number
GW30-20	20	1450	H2O	40mL VOA	X																	Silty	2	✓
GW25-8	8	1525																				"	2	✓
GW25-14	14	1535																				"	2	✓
⊥ -20	20	1555																				"	2	✓
GW24-8	8	1650																				"	2	✓
⊥ -14	14	1650																				"	2	✓
⊥ -20	20	1710																				"	2	✓

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
[signature]	10/29/98 1415	[signature]	10/29/98
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE RECEIPT	
Total Number of Containers	14
Chain of Custody Seals Y/N NA	
Seals Intact? Y/N NA	
Received Good Cond./Cold	
Notes:	

LABORATORY NOTES:

TARGET LABORATORIES

10555 Guilford Rd. Suite 127, Jessup, Md 20794
Office: 301-497-6400 Fax: 301-497-4440

CHAIN-OF-CUSTODY RECORD

JOB CODE: CHH10138

CLIENT: CH2M HILL
ADDRESS: VERNDON VA
PHONE: (703) 471-6405 x432 FAX:
CLIENT PROJECT #: PROJECT MANAGER: Robinson

DATE: 10/30/98 PAGE 1 OF 2
P.O.# :
LOCATION: NAS OCEANIA
COLLECTOR: RANDY BRAND DATE OF COLLECTION: 10/30/98

Sample Number	(FT) Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8260	Semi Vol. 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	PNA 610/8100	PEST/PCBs 8080	TOC	BOD	LEAD 239.2	pH	Ignitability	Metals 6000/7000	Reactivity	Preservative (Y/N)	FIELD NOTES	Total Number of Containers	Laboratory Note Number
GW27-8	8	0730	H2O	40ml VOA	X																	SILTY	2	✓
" -14	14	0735																				"	2	✓
" -20	20	0800																				"	2	✓
GW12-8	8	0845																				"	2	✓
" -14	14	0845																				"	2	✓
" -20	20	0845																				"	2	✓
OW24-MW02	—	0845																				MONITORING WELL	2	✓
EB103098-S	—	0915																				EQUP BLANK	2	✓
EB103098-B	—	0915																				SCREEN BLANK	2	✓
GW26-8	8	0945																				SILTY	2	✓
" -14	14	0945																				SILTY	2	✓
GW38-8	8	1020																				"	2	✓
" -14	14	1020																				"	2	✓
GW200-1	—	1310																				DIFFERENT LOCATION	2	✓
" -2	—	1310																				"	2	✓
" -3	—	1310																				"	2	✓

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
[signature]	10/30/98 1330	[signature]	10/30/98
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE RECEIPT	
Total Number of Containers	
Chain of Custody Seals Y/N NA	
Seals Intact? Y/N NA	
Received Good Cond./Cold	
Notes:	

LABORATORY NOTES:

TARGET LABORATORIES

10555 Guilford Rd. Suite 127, Jessup, Md 20794
Office: 301-497-6400 Fax: 301-497-4440

CHAIN-OF-CUSTODY RECORD

JOB CODE: RHH 10138

CLIENT: CH2M HILL
ADDRESS: HERNDON VA
PHONE: (703) 471-6405 x4321 FAX:
CLIENT PROJECT #: PROJECT MANAGER: Robinson

DATE: 10/30/98 PAGE 2 OF 2
P.O.# :
LOCATION: NAS OCEANA
COLLECTOR: RANDY BEAND DATE OF COLLECTION: 10/30/98

Sample Number	Depth (FT)	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8260	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	TPH 8015 (g & d)	PNA 610/8100	PEST/PCBs 8080	TOC	BOD	LEAD 239.2	pH	Ignitability	Metals 6000/7000	Reactivity	Preservative (Y/N)	FIELD NOTES	Total Number of Containers	Laboratory Note Number
GW46-8	8	1430	H2O	40mL VOA	X																		Silty	2	✓
-14	14																						"	2	✓
-20	20																						"	2	✓
GW42-8	8	1530																					"	2	✓
-14	14																						"	2	✓

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[signature]	1600 10/30/98	[signature]	10/30/98
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE RECEIPT	
Total Number of Containers	
Chain of Custody Seals Y/N NA	
Seals Intact? Y/N NA	
Received Good Cond./Cold	
Notes:	

LABORATORY NOTES:

TARGET LABORATORIES

10555 Guilford Rd. Suite 127, Jessup, Md 20794
Office: 301-497-6400 Fax: 301-497-4440

CHAIN-OF-CUSTODY RECORD

JOB CODE: CHM10138

CLIENT: CH2M HILL
ADDRESS: HERNDON VA
PHONE: (703) 471-6405 x 4321 FAX:
CLIENT PROJECT #: PROJECT MANAGER: Robinson

DATE: 11/2/98 PAGE 1 OF 1
P.O.# :
LOCATION: NAS OCEANA
COLLECTOR: Randy BRAND DATE OF COLLECTION: 11/2/98

Sample Number	Depth (FT)	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8260	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	PNA 610/8100	PEST/PCBs 8080	TOC	BOD	LEAD 239.2	pH	Ignitability	Metals 6000/7000	Reactivity	Preservative (Y/N)	FIELD NOTES	Total Number of Containers	Laboratory Note Number
GW51-8	8	1550	H2O	40mL VOA	X																	Silty	2	✓
↓ -14	14	↓																				"	2	✓
↓ -20	20	1620																				"	2	✓
GW42-8	8	1650																				Re-Sample	2	

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
[signature]	11/2/98 1800	[signature]	11/2/98 1800
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE RECEIPT	
Total Number of Containers	8
Chain of Custody Seals Y/N NA	
Seals Intact? Y/N NA	
Received Good Cond./Cold	
Notes:	

LABORATORY NOTES:

TARGET LABORATORIES

10555 Guilford Rd. Suite 127, Jessup, Md 20794
Office: 301-497-6400 Fax: 301-497-4440

CHAIN-OF-CUSTODY RECORD

JOB CODE: CHM10138

CLIENT: CH2M HILL
ADDRESS: HERNDON VA
PHONE: (703) 471-6405 x4321 FAX:
CLIENT PROJECT #: PROJECT MANAGER: Robinson

DATE: 11/3/98 PAGE ___ OF ___
P.O.# :
LOCATION: NAS OCEANA
COLLECTOR: RANDY BERAND DATE OF COLLECTION: 11/3/98

Sample Number	(FT) Depth	Time	Sample Type	Container Type	VOA 601/8010	VOA 602/8020	VOA 624/8260	Semi Vol 625/8270	TPH 418.1	TPH 8015 (gasoline)	TPH 8015 (diesel)	PNA 610/8100	PEST/PCBs 8080	TOC	BOD	LEAD 239.2	pH	Ignitability	Metals 6000/7000	Reactivity	Preservative (Y/N)	FIELD NOTES	Total Number of Containers	Laboratory Note Number
GW43-8	8	0825	H2O	40 mL VOA	X																	SILTY	2	✓
⊥ -14	14	0845																				SILTY	2	✓
GW41-8	8	0950																				"	2	✓
⊥ -14	14	0950																				"	2	✓
GW21-8	8	1030																				"	2	✓
GW47-8	8	1150																				"	2	✓
⊥ -14	14	1210																				"	2	✓
GW48-8	8	1305																				"	2	✓
⊥ -14	14	1305																				"	2	✓
⊥ -20	20	1310																				"	2	✓
GW21-14	14	—																				WAS left OFF CHAIN (SB) 12/3/98		
SB																								

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME
[signature]	11/3/98 1330	[signature]	11/3/98 1330
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	DATE/TIME

SAMPLE RECEIPT	
Total Number of Containers	20
Chain of Custody Seals Y/N NA	
Seals Intact? Y/N NA	
Received Good Cond./Cold	
Notes:	

LABORATORY NOTES:

TARGET LABORATORIES

~~GP ENVIRONMENTAL SERVICES, INC.~~

~~202 Perry Parkway~~
~~Gaithersburg, Maryland 20877~~
~~(301) 926-6802~~

Contract #/Billing Reference: CHH10138

1 of 1 Pgs.

Project: NAS OCEANA
Client: CH2M HILL
Send Results To: JACK ROBINSON
Address: 625 HERNDON PARKWAY
HERNDON, VA 20170
Phone: (703) 471-1441

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	VOCs	BETX									CLIENT COMMENTS
Turnaround Time					~~7-DAY~~	~~7-DAY~~									
# of Containers					2	2									
Container Type					40ml	40ml									
Preservative Used					HCL	HCL									
Type of Analysis															
Lab Cooler No.															
24-P23S	11/4/98		H_2O	TW	X	X									
24-P23D	11/4/98		H_2O	TW	X	X									

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	11/4/98 1800	[signature]		[signature]	11/5 98 1350

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:

G.P. W.O. _____

Appendix A-2

Summary of Detected Chemicals for Groundwater Sampling at SWMU 24

SAMPLE_ID	DATE_COLLECTED	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM
OW24-MW01-R01	10/27/98	1,1,2-TRICHLOROETHANE	2.40		UG/L	1.00
OW24-MW01-R01	10/27/98	2-METHYLNAPHTHALENE	11.00	J	UG/L	11.00
OW24-MW01-R01	10/27/98	ALUMINUM	291.00	B	UG/L	40.80
OW24-MW01-R01	10/27/98	ANTHRACENE	1.10	J	UG/L	0.10
OW24-MW01-R01	10/27/98	ARSENIC	48.60		UG/L	3.00
OW24-MW01-R01	10/27/98	ARSENIC	49.10		UG/L	3.00
OW24-MW01-R01	10/27/98	BARIUM	32.30	J	UG/L	0.40
OW24-MW01-R01	10/27/98	BARIUM	35.50	J	UG/L	0.40
OW24-MW01-R01	10/27/98	BENZENE	2.00		UG/L	1.00
OW24-MW01-R01	10/27/98	CALCIUM	30800.00		UG/L	28.00
OW24-MW01-R01	10/27/98	CALCIUM	32900.00		UG/L	28.00
OW24-MW01-R01	10/27/98	CHROMIUM	1.80	J	UG/L	0.70
OW24-MW01-R01	10/27/98	CHROMIUM	2.30	J	UG/L	0.70
OW24-MW01-R01	10/27/98	CIS-1,2-DICHLOROETHENE	59.80	J	UG/L	1.00
OW24-MW01-R01	10/27/98	COPPER	2.00	B	UG/L	0.60
OW24-MW01-R01	10/27/98	COPPER	4.50	B	UG/L	0.60
OW24-MW01-R01	10/27/98	DIBENZOFURAN	3.00	J	UG/L	11.00
OW24-MW01-R01	10/27/98	ETHYLBENZENE	7.60		UG/L	1.00
OW24-MW01-R01	10/27/98	FLUORANTHENE	14.00	J	UG/L	1.00
OW24-MW01-R01	10/27/98	IRON	16400.00		UG/L	23.50
OW24-MW01-R01	10/27/98	IRON	17700.00		UG/L	23.50
OW24-MW01-R01	10/27/98	MAGNESIUM	11700.00		UG/L	24.20
OW24-MW01-R01	10/27/98	MAGNESIUM	12400.00		UG/L	24.20
OW24-MW01-R01	10/27/98	MANGANESE	479.00		UG/L	1.10
OW24-MW01-R01	10/27/98	MANGANESE	514.00		UG/L	1.10
OW24-MW01-R01	10/27/98	NAPHTHALENE	15.00		UG/L	2.10
OW24-MW01-R01	10/27/98	NICKEL	2.40	L	UG/L	1.30
OW24-MW01-R01	10/27/98	PHENANTHRENE	0.93	J	UG/L	0.05
OW24-MW01-R01	10/27/98	POTASSIUM	4130.00	J	UG/L	20.20
OW24-MW01-R01	10/27/98	POTASSIUM	4410.00	J	UG/L	20.20
OW24-MW01-R01	10/27/98	PYRENE	0.01	B	UG/L	0.01
OW24-MW01-R01	10/27/98	SODIUM	11700.00		UG/L	210.00
OW24-MW01-R01	10/27/98	SODIUM	12100.00		UG/L	210.00
OW24-MW01-R01	10/27/98	TRANS-1,2-DICHLOROETHENE	8.80		UG/L	1.00
OW24-MW01-R01	10/27/98	VANADIUM	2.50	B	UG/L	0.80
OW24-MW01-R01	10/27/98	VANADIUM	3.20	B	UG/L	0.80
OW24-MW01-R01	10/27/98	ZINC	15.60	B	UG/L	2.00
OW24-MW01-R01	10/27/98	ZINC	22.40	B	UG/L	2.00
OW24-MW02F-R01	10/30/98	ALUMINUM	51.6000	B	UG/L	40.8000
OW24-MW02F-R01	10/30/98	ANTIMONY	5.0000	J	UG/L	4.2000
OW24-MW02F-R01	10/30/98	BARIUM	46.5000	J	UG/L	0.4000
OW24-MW02F-R01	10/30/98	CALCIUM	33800.0000		UG/L	28.0000
OW24-MW02F-R01	10/30/98	CHROMIUM	0.7100	B	UG/L	0.7000
OW24-MW02F-R01	10/30/98	COBALT	1.3000	J	UG/L	0.6000
OW24-MW02F-R01	10/30/98	COPPER	22.4000	B	UG/L	0.6000
OW24-MW02F-R01	10/30/98	IRON	1030.0000		UG/L	23.5000
OW24-MW02F-R01	10/30/98	MAGNESIUM	3730.0000	J	UG/L	24.2000
OW24-MW02F-R01	10/30/98	MANGANESE	42.5000		UG/L	1.1000
OW24-MW02F-R01	10/30/98	NICKEL	10.1000	B	UG/L	1.3000
OW24-MW02F-R01	10/30/98	POTASSIUM	6500.0000		UG/L	20.2000
OW24-MW02F-R01	10/30/98	SODIUM	9950.0000		UG/L	210.0000
OW24-MW02F-R01	10/30/98	VANADIUM	1.6000	J	UG/L	0.8000
OW24-MW02F-R01	10/30/98	ZINC	62.2000	B	UG/L	2.0000
OW24-MW02PF-RC	10/30/98	ALUMINUM	53.8000	B	UG/L	40.8000
OW24-MW02PF-RC	10/30/98	ARSENIC	3.0000	J	UG/L	3.0000
OW24-MW02PF-RC	10/30/98	BARIUM	54.1000	J	UG/L	0.4000
OW24-MW02PF-RC	10/30/98	CALCIUM	39000.0000		UG/L	28.0000
OW24-MW02PF-RC	10/30/98	CHROMIUM	1.3000	B	UG/L	0.7000
OW24-MW02PF-RC	10/30/98	COBALT	1.6000	J	UG/L	0.6000
OW24-MW02PF-RC	10/30/98	COPPER	32.3000	B	UG/L	0.6000
OW24-MW02PF-RC	10/30/98	IRON	1290.0000		UG/L	23.5000
OW24-MW02PF-RC	10/30/98	LEAD	1.8000	J	UG/L	1.7000

SAMPLE_ID	DATE_COLLECTED	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM
OW24-MW02PF-RC	10/30/98	MAGNESIUM	4280.0000	J	UG/L	24.2000
OW24-MW02PF-RC	10/30/98	MANGANESE	48.9000		UG/L	1.1000
OW24-MW02PF-RC	10/30/98	NICKEL	14.8000	B	UG/L	1.3000
OW24-MW02PF-RC	10/30/98	POTASSIUM	7380.0000		UG/L	20.2000
OW24-MW02PF-RC	10/30/98	SODIUM	11600.0000		UG/L	210.0000
OW24-MW02PF-RC	10/30/98	VANADIUM	1.5000	J	UG/L	0.8000
OW24-MW02PF-RC	10/30/98	ZINC	72.4000	B	UG/L	2.0000
OW24-MW02P-R01	10/30/98	ACENAPHTHYLENE	5.2000		UG/L	1.1000
OW24-MW02P-R01	10/30/98	ALUMINUM	2110.0000		UG/L	40.8000
OW24-MW02P-R01	10/30/98	ARSENIC	5.8000	J	UG/L	3.0000
OW24-MW02P-R01	10/30/98	BARIUM	81.2000	J	UG/L	0.4000
OW24-MW02P-R01	10/30/98	BENZO(A)ANTHRACENE	0.0160		UG/L	0.0110
OW24-MW02P-R01	10/30/98	BERYLLIUM	0.4500	B	UG/L	0.2000
OW24-MW02P-R01	10/30/98	CADMIUM	0.5400	B	UG/L	0.4000
OW24-MW02P-R01	10/30/98	CALCIUM	38700.0000		UG/L	28.0000
OW24-MW02P-R01	10/30/98	CHROMIUM	12.4000	B	UG/L	0.7000
OW24-MW02P-R01	10/30/98	CHRYSENE	0.0170		UG/L	0.0110
OW24-MW02P-R01	10/30/98	CIS-1,2-DICHLOROETHENE	0.2000	J	UG/L	1.0000
OW24-MW02P-R01	10/30/98	COBALT	3.2000	J	UG/L	0.6000
OW24-MW02P-R01	10/30/98	COPPER	10.5000	B	UG/L	0.6000
OW24-MW02P-R01	10/30/98	FLUORENE	0.3900	J	UG/L	0.4300
OW24-MW02P-R01	10/30/98	IRON	3060.0000		UG/L	23.5000
OW24-MW02P-R01	10/30/98	LEAD	11.1000		UG/L	1.7000
OW24-MW02P-R01	10/30/98	MAGNESIUM	4380.0000	J	UG/L	24.2000
OW24-MW02P-R01	10/30/98	MANGANESE	57.3000		UG/L	1.1000
OW24-MW02P-R01	10/30/98	METHYLENE CHLORIDE	0.3000	B	UG/L	2.0000
OW24-MW02P-R01	10/30/98	NAPHTHALENE	0.3200	J	UG/L	2.2000
OW24-MW02P-R01	10/30/98	NICKEL	31.8000	B	UG/L	1.3000
OW24-MW02P-R01	10/30/98	PHENANTHRENE	0.0400	B	UG/L	0.0540
OW24-MW02P-R01	10/30/98	POTASSIUM	7160.0000		UG/L	20.2000
OW24-MW02P-R01	10/30/98	PYRENE	0.0060	B	UG/L	0.0050
OW24-MW02P-R01	10/30/98	SODIUM	10700.0000		UG/L	210.0000
OW24-MW02P-R01	10/30/98	VANADIUM	8.8000	J	UG/L	0.8000
OW24-MW02P-R01	10/30/98	ZINC	104.0000	B	UG/L	2.0000
OW24-MW02-R01	10/30/98	4,4'-DDD	0.0420	B	UG/L	0.2000
OW24-MW02-R01	10/30/98	4,4'-DDE	0.0090	B	UG/L	0.2000
OW24-MW02-R01	10/30/98	4,4'-DDT	0.0280	B	UG/L	0.2000
OW24-MW02-R01	10/30/98	ACENAPHTHYLENE	570.0000		UG/L	110.0000
OW24-MW02-R01	10/30/98	ALPHA-BHC	0.0460	J	UG/L	0.1000
OW24-MW02-R01	10/30/98	ALUMINUM	5130.0000		UG/L	40.8000
OW24-MW02-R01	10/30/98	ANTHRACENE	49.0000		UG/L	11.0000
OW24-MW02-R01	10/30/98	ARSENIC	4.8000	J	UG/L	3.0000
OW24-MW02-R01	10/30/98	BARIUM	96.0000	J	UG/L	0.4000
OW24-MW02-R01	10/30/98	BERYLLIUM	0.7100	B	UG/L	0.2000
OW24-MW02-R01	10/30/98	CADMIUM	0.5800	B	UG/L	0.4000
OW24-MW02-R01	10/30/98	CALCIUM	38200.0000		UG/L	28.0000
OW24-MW02-R01	10/30/98	CHROMIUM	15.1000	B	UG/L	0.7000
OW24-MW02-R01	10/30/98	CIS-1,2-DICHLOROETHENE	0.2000	J	UG/L	1.0000
OW24-MW02-R01	10/30/98	COBALT	3.3000	J	UG/L	0.6000
OW24-MW02-R01	10/30/98	COPPER	14.1000	B	UG/L	0.6000
OW24-MW02-R01	10/30/98	IRON	4590.0000		UG/L	23.5000
OW24-MW02-R01	10/30/98	LEAD	15.5000		UG/L	1.7000
OW24-MW02-R01	10/30/98	MAGNESIUM	4650.0000	J	UG/L	24.2000
OW24-MW02-R01	10/30/98	MANGANESE	66.6000		UG/L	1.1000
OW24-MW02-R01	10/30/98	MERCURY	0.1000	J	UG/L	0.1000
OW24-MW02-R01	10/30/98	METHYLENE CHLORIDE	0.5000	B	UG/L	2.0000
OW24-MW02-R01	10/30/98	NICKEL	24.6000	B	UG/L	1.3000
OW24-MW02-R01	10/30/98	POTASSIUM	7260.0000		UG/L	20.2000
OW24-MW02-R01	10/30/98	SODIUM	9980.0000		UG/L	210.0000
OW24-MW02-R01	10/30/98	THALLIUM	5.6000	B	UG/L	4.1000
OW24-MW02-R01	10/30/98	VANADIUM	14.7000	J	UG/L	0.8000
OW24-MW02-R01	10/30/98	ZINC	135.0000	B	UG/L	2.0000

SAMPLE_ID	DATE_COLLECTED	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM
OW24-MW03F-R01	11/04/98	ALUMINUM	323.0000		UG/L	40.8000
OW24-MW03F-R01	11/04/98	BARIUM	125.0000	J	UG/L	0.4000
OW24-MW03F-R01	11/04/98	BERYLLIUM	1.3000	J	UG/L	0.2000
OW24-MW03F-R01	11/04/98	CALCIUM	13300.0000		UG/L	28.0000
OW24-MW03F-R01	11/04/98	COBALT	5.3000	J	UG/L	0.6000
OW24-MW03F-R01	11/04/98	COPPER	15.7000	B	UG/L	0.6000
OW24-MW03F-R01	11/04/98	IRON	2520.0000		UG/L	23.5000
OW24-MW03F-R01	11/04/98	MAGNESIUM	4980.0000	J	UG/L	24.2000
OW24-MW03F-R01	11/04/98	MANGANESE	47.4000		UG/L	1.1000
OW24-MW03F-R01	11/04/98	NICKEL	8.1000	J	UG/L	1.3000
OW24-MW03F-R01	11/04/98	POTASSIUM	1430.0000	J	UG/L	20.2000
OW24-MW03F-R01	11/04/98	SELENIUM	4.1000	B	UG/L	1.9000
OW24-MW03F-R01	11/04/98	SODIUM	10200.0000	B	UG/L	210.0000
OW24-MW03F-R01	11/04/98	ZINC	43.5000	B	UG/L	2.0000
OW24-MW03-R01	11/04/98	4,4'-DDD	0.0480	B	UG/L	0.1100
OW24-MW03-R01	11/04/98	4,4'-DDT	0.0460	B	UG/L	0.1100
OW24-MW03-R01	11/04/98	ALUMINUM	1320.0000		UG/L	40.8000
OW24-MW03-R01	11/04/98	ARSENIC	5.7000	J	UG/L	3.0000
OW24-MW03-R01	11/04/98	BARIUM	154.0000	J	UG/L	0.4000
OW24-MW03-R01	11/04/98	BENZENE	0.7000	J	UG/L	1.0000
OW24-MW03-R01	11/04/98	BERYLLIUM	1.8000	J	UG/L	0.2000
OW24-MW03-R01	11/04/98	BIS-(2-ETHYLHEXYL)PHTHALATE	1.0000	J	UG/L	11.0000
OW24-MW03-R01	11/04/98	CADMIUM	0.4400	B	UG/L	0.4000
OW24-MW03-R01	11/04/98	CALCIUM	14300.0000		UG/L	28.0000
OW24-MW03-R01	11/04/98	CARBON DISULFIDE	0.2000	J	UG/L	1.0000
OW24-MW03-R01	11/04/98	CHROMIUM	4.0000	B	UG/L	0.7000
OW24-MW03-R01	11/04/98	CIS-1,2-DICHLOROETHENE	72.6000		UG/L	5.0000
OW24-MW03-R01	11/04/98	COBALT	6.4000	J	UG/L	0.6000
OW24-MW03-R01	11/04/98	COPPER	7.1000	B	UG/L	0.6000
OW24-MW03-R01	11/04/98	CYANIDE	22.6000	B	UG/L	5.0000
OW24-MW03-R01	11/04/98	IRON	3980.0000		UG/L	23.5000
OW24-MW03-R01	11/04/98	LEAD	3.1000		UG/L	1.7000
OW24-MW03-R01	11/04/98	MAGNESIUM	5430.0000		UG/L	24.2000
OW24-MW03-R01	11/04/98	MANGANESE	50.1000		UG/L	1.1000
OW24-MW03-R01	11/04/98	METHYLENE CHLORIDE	1.1000	B	UG/L	2.0000
OW24-MW03-R01	11/04/98	NICKEL	8.0000	J	UG/L	1.3000
OW24-MW03-R01	11/04/98	POTASSIUM	1560.0000	J	UG/L	20.2000
OW24-MW03-R01	11/04/98	SODIUM	10200.0000	B	UG/L	210.0000
OW24-MW03-R01	11/04/98	TRANS-1,2-DICHLOROETHENE	3.8000		UG/L	1.0000
OW24-MW03-R01	11/04/98	TRICHLOROETHENE	5.6000		UG/L	1.0000
OW24-MW03-R01	11/04/98	VANADIUM	4.3000	L	UG/L	0.8000
OW24-MW03-R01	11/04/98	VINYL CHLORIDE	0.3000	J	UG/L	1.0000
OW24-MW03-R01	11/04/98	ZINC	38.3000	B	UG/L	2.0000
OW24-MW04-R01	10/28/98	4,4'-DDT	0.03	B	UG/L	0.11
OW24-MW04-R01	10/28/98	ALUMINUM	2680.00		UG/L	40.80
OW24-MW04-R01	10/28/98	ARSENIC	24.30		UG/L	3.00
OW24-MW04-R01	10/28/98	ARSENIC	40.90		UG/L	3.00
OW24-MW04-R01	10/28/98	BARIUM	27.10	J	UG/L	0.40
OW24-MW04-R01	10/28/98	BARIUM	40.90	J	UG/L	0.40
OW24-MW04-R01	10/28/98	BERYLLIUM	0.27	J	UG/L	0.20
OW24-MW04-R01	10/28/98	CALCIUM	5270.00		UG/L	28.00
OW24-MW04-R01	10/28/98	CALCIUM	5310.00		UG/L	28.00
OW24-MW04-R01	10/28/98	CARBON DISULFIDE	1.60	B	UG/L	1.00
OW24-MW04-R01	10/28/98	CHROMIUM	4.90	J	UG/L	0.70
OW24-MW04-R01	10/28/98	CHROMIUM	10.00		UG/L	0.70
OW24-MW04-R01	10/28/98	COBALT	1.50	B	UG/L	0.60
OW24-MW04-R01	10/28/98	COBALT	2.40	B	UG/L	0.60
OW24-MW04-R01	10/28/98	COPPER	4.50	B	UG/L	0.60
OW24-MW04-R01	10/28/98	COPPER	6.50	B	UG/L	0.60
OW24-MW04-R01	10/28/98	IRON	23100.00		UG/L	23.50
OW24-MW04-R01	10/28/98	IRON	29000.00		UG/L	23.50
OW24-MW04-R01	10/28/98	LEAD	1.70	J	UG/L	1.70

SAMPLE_ID	DATE_COLLECTED	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM
OW24-MW04-R01	10/28/98	MAGNESIUM	4680.00	J	UG/L	24.20
OW24-MW04-R01	10/28/98	MAGNESIUM	4730.00	J	UG/L	24.20
OW24-MW04-R01	10/28/98	MANGANESE	91.20		UG/L	1.10
OW24-MW04-R01	10/28/98	MANGANESE	95.80		UG/L	1.10
OW24-MW04-R01	10/28/98	METHYLENE CHLORIDE	0.50	B	UG/L	2.00
OW24-MW04-R01	10/28/98	NICKEL	7.90	L	UG/L	1.30
OW24-MW04-R01	10/28/98	NICKEL	9.60	J	UG/L	1.30
OW24-MW04-R01	10/28/98	POTASSIUM	762.00	J	UG/L	20.20
OW24-MW04-R01	10/28/98	POTASSIUM	1220.00	J	UG/L	20.20
OW24-MW04-R01	10/28/98	SELENIUM	2.80	B	UG/L	1.90
OW24-MW04-R01	10/28/98	SELENIUM	3.60	B	UG/L	1.90
OW24-MW04-R01	10/28/98	SODIUM	11000.00		UG/L	210.00
OW24-MW04-R01	10/28/98	SODIUM	11700.00		UG/L	210.00
OW24-MW04-R01	10/28/98	VANADIUM	0.96	B	UG/L	0.80
OW24-MW04-R01	10/28/98	VANADIUM	5.80	J	UG/L	0.80
OW24-MW04-R01	10/28/98	ZINC	17.60	B	UG/L	2.00
OW24-MW04-R01	10/28/98	ZINC	20.50	B	UG/L	2.00
OW24-MW05-R01	10/27/98	4,4'-DDT	0.03	B	UG/L	0.11
OW24-MW05-R01	10/27/98	ALUMINUM	1450.00		UG/L	40.80
OW24-MW05-R01	10/27/98	ARSENIC	8.40	B	UG/L	3.00
OW24-MW05-R01	10/27/98	ARSENIC	14.80	B	UG/L	3.00
OW24-MW05-R01	10/27/98	BARIUM	21.80	J	UG/L	0.40
OW24-MW05-R01	10/27/98	BARIUM	28.70	J	UG/L	0.40
OW24-MW05-R01	10/27/98	BENZO(A)ANTHRACENE	0.00	B	UG/L	0.01
OW24-MW05-R01	10/27/98	CALCIUM	7320.00		UG/L	28.00
OW24-MW05-R01	10/27/98	CALCIUM	7750.00		UG/L	28.00
OW24-MW05-R01	10/27/98	CHROMIUM	4.00	J	UG/L	0.70
OW24-MW05-R01	10/27/98	CHRYSENE	0.00	B	UG/L	0.01
OW24-MW05-R01	10/27/98	COBALT	1.90	B	UG/L	0.60
OW24-MW05-R01	10/27/98	COBALT	1.90	B	UG/L	0.60
OW24-MW05-R01	10/27/98	COPPER	1.80	B	UG/L	0.60
OW24-MW05-R01	10/27/98	COPPER	15.90	B	UG/L	0.60
OW24-MW05-R01	10/27/98	IRON	10300.00		UG/L	23.50
OW24-MW05-R01	10/27/98	IRON	12800.00		UG/L	23.50
OW24-MW05-R01	10/27/98	MAGNESIUM	7040.00		UG/L	24.20
OW24-MW05-R01	10/27/98	MAGNESIUM	7650.00		UG/L	24.20
OW24-MW05-R01	10/27/98	MANGANESE	270.00		UG/L	1.10
OW24-MW05-R01	10/27/98	MANGANESE	319.00		UG/L	1.10
OW24-MW05-R01	10/27/98	NICKEL	2.20	L	UG/L	1.30
OW24-MW05-R01	10/27/98	POTASSIUM	1010.00	J	UG/L	20.20
OW24-MW05-R01	10/27/98	POTASSIUM	1230.00	J	UG/L	20.20
OW24-MW05-R01	10/27/98	PYRENE	0.00	B	UG/L	0.01
OW24-MW05-R01	10/27/98	SELENIUM	3.40	B	UG/L	1.90
OW24-MW05-R01	10/27/98	SODIUM	10700.00		UG/L	210.00
OW24-MW05-R01	10/27/98	SODIUM	11100.00		UG/L	210.00
OW24-MW05-R01	10/27/98	VANADIUM	1.40	B	UG/L	0.80
OW24-MW05-R01	10/27/98	VANADIUM	3.40	B	UG/L	0.80
OW24-MW05-R01	10/27/98	ZINC	25.90	B	UG/L	2.00
OW24-MW05-R01	10/27/98	ZINC	33.30	B	UG/L	2.00
OW24-MW06-R01	10/27/98	4,4'-DDT	0.01	B	UG/L	0.11
OW24-MW06-R01	10/27/98	ALUMINUM	41.70	B	UG/L	40.80
OW24-MW06-R01	10/27/98	ALUMINUM	392.00		UG/L	40.80
OW24-MW06-R01	10/27/98	ARSENIC	9.30	B	UG/L	3.00
OW24-MW06-R01	10/27/98	ARSENIC	12.90	B	UG/L	3.00
OW24-MW06-R01	10/27/98	BARIUM	25.60	J	UG/L	0.40
OW24-MW06-R01	10/27/98	BARIUM	27.30	J	UG/L	0.40
OW24-MW06-R01	10/27/98	BENZO(A)ANTHRACENE	0.00	B	UG/L	0.01
OW24-MW06-R01	10/27/98	CALCIUM	6580.00		UG/L	28.00
OW24-MW06-R01	10/27/98	CALCIUM	6580.00		UG/L	28.00
OW24-MW06-R01	10/27/98	CHROMIUM	0.98	J	UG/L	0.70
OW24-MW06-R01	10/27/98	CHROMIUM	1.80	J	UG/L	0.70
OW24-MW06-R01	10/27/98	CHRYSENE	0.00	B	UG/L	0.01

SAMPLE_ID	DATE_COLLECTED	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM
OW24-MW06-R01	10/27/98	COBALT	17.40	J	UG/L	0.60
OW24-MW06-R01	10/27/98	COBALT	19.50	J	UG/L	0.60
OW24-MW06-R01	10/27/98	COPPER	1.90	B	UG/L	0.60
OW24-MW06-R01	10/27/98	COPPER	4.70	B	UG/L	0.60
OW24-MW06-R01	10/27/98	CYANIDE	5.70	J	UG/L	5.00
OW24-MW06-R01	10/27/98	IRON	30300.00		UG/L	23.50
OW24-MW06-R01	10/27/98	IRON	32900.00		UG/L	23.50
OW24-MW06-R01	10/27/98	MAGNESIUM	4610.00	J	UG/L	24.20
OW24-MW06-R01	10/27/98	MAGNESIUM	4670.00	J	UG/L	24.20
OW24-MW06-R01	10/27/98	MANGANESE	499.00		UG/L	1.10
OW24-MW06-R01	10/27/98	MANGANESE	538.00		UG/L	1.10
OW24-MW06-R01	10/27/98	NICKEL	2.30	L	UG/L	1.30
OW24-MW06-R01	10/27/98	NICKEL	2.40	L	UG/L	1.30
OW24-MW06-R01	10/27/98	POTASSIUM	574.00	J	UG/L	20.20
OW24-MW06-R01	10/27/98	POTASSIUM	610.00	J	UG/L	20.20
OW24-MW06-R01	10/27/98	PYRENE	0.00	B	UG/L	0.01
OW24-MW06-R01	10/27/98	SELENIUM	2.70	B	UG/L	1.90
OW24-MW06-R01	10/27/98	SODIUM	12200.00		UG/L	210.00
OW24-MW06-R01	10/27/98	SODIUM	12400.00		UG/L	210.00
OW24-MW06-R01	10/27/98	VANADIUM	1.20	B	UG/L	0.80
OW24-MW06-R01	10/27/98	ZINC	19.40	B	UG/L	2.00
OW24-MW06-R01	10/27/98	ZINC	30.50	B	UG/L	2.00
OW24-MW10F-R01	11/6/98	ALUMINUM	100.0000	B	UG/L	40.8000
OW24-MW10F-R01	11/6/98	ARSENIC	20.2000		UG/L	3.0000
OW24-MW10F-R01	11/6/98	BARIUM	24.4000	J	UG/L	0.4000
OW24-MW10F-R01	11/6/98	CALCIUM	5330.0000		UG/L	28.0000
OW24-MW10F-R01	11/6/98	CHROMIUM	1.3000	B	UG/L	0.7000
OW24-MW10F-R01	11/6/98	COBALT	10.1000	J	UG/L	0.6000
OW24-MW10F-R01	11/6/98	COPPER	2.6000	B	UG/L	0.6000
OW24-MW10F-R01	11/6/98	IRON	15100.0000		UG/L	23.5000
OW24-MW10F-R01	11/6/98	MAGNESIUM	4170.0000	J	UG/L	24.2000
OW24-MW10F-R01	11/6/98	MANGANESE	743.0000		UG/L	1.1000
OW24-MW10F-R01	11/6/98	NICKEL	2.8000	B	UG/L	1.3000
OW24-MW10F-R01	11/6/98	POTASSIUM	1050.0000	J	UG/L	20.2000
OW24-MW10F-R01	11/6/98	SODIUM	6900.0000		UG/L	210.0000
OW24-MW10F-R01	11/6/98	ZINC	15.9000	B	UG/L	2.0000
OW24-MW10-R01	11/6/98	4,4'-DDD	0.0440	J	UG/L	0.1000
OW24-MW10-R01	11/6/98	4,4'-DDT	0.0110	B	UG/L	0.1000
OW24-MW10-R01	11/6/98	ACENAPHTHENE	0.0670	K	UG/L	0.2200
OW24-MW10-R01	11/6/98	ALUMINUM	354.0000		UG/L	40.8000
OW24-MW10-R01	11/6/98	ANTHRACENE	0.0790	B	UG/L	0.1100
OW24-MW10-R01	11/6/98	ARSENIC	20.3000		UG/L	3.0000
OW24-MW10-R01	11/6/98	BARIUM	28.3000	B	UG/L	0.4000
OW24-MW10-R01	11/6/98	CALCIUM	5410.0000		UG/L	28.0000
OW24-MW10-R01	11/6/98	CARBON DISULFIDE	0.4000	J	UG/L	1.0000
OW24-MW10-R01	11/6/98	CHROMIUM	1.3000	B	UG/L	0.7000
OW24-MW10-R01	11/6/98	COBALT	10.6000	J	UG/L	0.6000
OW24-MW10-R01	11/6/98	COPPER	3.9000	B	UG/L	0.6000
OW24-MW10-R01	11/6/98	CYANIDE	43.0000	B	UG/L	5.0000
OW24-MW10-R01	11/6/98	FLUORANTHENE	0.3700	K	UG/L	1.1000
OW24-MW10-R01	11/6/98	FLUORENE	0.1600	K	UG/L	0.4500
OW24-MW10-R01	11/6/98	IRON	15600.0000		UG/L	23.5000
OW24-MW10-R01	11/6/98	MAGNESIUM	4270.0000	J	UG/L	24.2000
OW24-MW10-R01	11/6/98	MANGANESE	763.0000		UG/L	1.1000
OW24-MW10-R01	11/6/98	METHYLENE CHLORIDE	0.2000	B	UG/L	2.0000
OW24-MW10-R01	11/6/98	NAPHTHALENE	0.2900	B	UG/L	2.2000
OW24-MW10-R01	11/6/98	NICKEL	3.0000	B	UG/L	1.3000
OW24-MW10-R01	11/6/98	PHENANTHRENE	0.0220	B	UG/L	0.0560
OW24-MW10-R01	11/6/98	POTASSIUM	1090.0000	J	UG/L	20.2000
OW24-MW10-R01	11/6/98	PYRENE	0.0030	B	UG/L	0.0060
OW24-MW10-R01	11/6/98	SODIUM	6890.0000		UG/L	210.0000
OW24-MW10-R01	11/6/98	VANADIUM	2.2000	B	UG/L	0.8000

SAMPLE_ID	DATE_COLLECTED	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM
OW24-MW10-R01	11/6/98	ZINC	23.0000	B	UG/L	2.0000
OW24-MW11F-R01	11/04/98	ALUMINUM	229.0000	B	UG/L	40.8000
OW24-MW11F-R01	11/04/98	ARSENIC	4.8000	J	UG/L	3.0000
OW24-MW11F-R01	11/04/98	BARIUM	10.3000	J	UG/L	0.4000
OW24-MW11F-R01	11/04/98	BERYLLIUM	0.3400	J	UG/L	0.2000
OW24-MW11F-R01	11/04/98	CALCIUM	3450.0000	J	UG/L	28.0000
OW24-MW11F-R01	11/04/98	CHROMIUM	5.2000	B	UG/L	0.7000
OW24-MW11F-R01	11/04/98	COBALT	0.7800	J	UG/L	0.6000
OW24-MW11F-R01	11/04/98	COPPER	4.7000	B	UG/L	0.6000
OW24-MW11F-R01	11/04/98	IRON	3900.0000		UG/L	23.5000
OW24-MW11F-R01	11/04/98	MAGNESIUM	2880.0000	J	UG/L	24.2000
OW24-MW11F-R01	11/04/98	MANGANESE	62.0000		UG/L	1.1000
OW24-MW11F-R01	11/04/98	NICKEL	20.9000	J	UG/L	1.3000
OW24-MW11F-R01	11/04/98	POTASSIUM	724.0000	B	UG/L	20.2000
OW24-MW11F-R01	11/04/98	SELENIUM	3.4000	B	UG/L	1.9000
OW24-MW11F-R01	11/04/98	SODIUM	5260.0000	B	UG/L	210.0000
OW24-MW11F-R01	11/04/98	ZINC	27.8000	B	UG/L	2.0000
OW24-MW11PF-RC	11/04/98	ALUMINUM	252.0000	B	UG/L	40.8000
OW24-MW11PF-RC	11/04/98	ARSENIC	8.4000	J	UG/L	3.0000
OW24-MW11PF-RC	11/04/98	BARIUM	10.0000	J	UG/L	0.4000
OW24-MW11PF-RC	11/04/98	BERYLLIUM	0.3900	J	UG/L	0.2000
OW24-MW11PF-RC	11/04/98	CADMIUM	0.5100	B	UG/L	0.4000
OW24-MW11PF-RC	11/04/98	CALCIUM	3430.0000	J	UG/L	28.0000
OW24-MW11PF-RC	11/04/98	CHROMIUM	4.6000	B	UG/L	0.7000
OW24-MW11PF-RC	11/04/98	COBALT	1.2000	J	UG/L	0.6000
OW24-MW11PF-RC	11/04/98	COPPER	3.2000	B	UG/L	0.6000
OW24-MW11PF-RC	11/04/98	IRON	3960.0000		UG/L	23.5000
OW24-MW11PF-RC	11/04/98	MAGNESIUM	2860.0000	J	UG/L	24.2000
OW24-MW11PF-RC	11/04/98	MANGANESE	63.3000		UG/L	1.1000
OW24-MW11PF-RC	11/04/98	NICKEL	23.8000	J	UG/L	1.3000
OW24-MW11PF-RC	11/04/98	POTASSIUM	690.0000	B	UG/L	20.2000
OW24-MW11PF-RC	11/04/98	SODIUM	5170.0000	B	UG/L	210.0000
OW24-MW11PF-RC	11/04/98	ZINC	29.2000	B	UG/L	2.0000
OW24-MW11P-R01	11/04/98	ALUMINUM	461.0000		UG/L	40.8000
OW24-MW11P-R01	11/04/98	ARSENIC	8.6000	J	UG/L	3.0000
OW24-MW11P-R01	11/04/98	BARIUM	9.8000	J	UG/L	0.4000
OW24-MW11P-R01	11/04/98	BERYLLIUM	0.4000	J	UG/L	0.2000
OW24-MW11P-R01	11/04/98	BIS-(2-ETHYLHEXYL)PHTHALATE	1.0000	J	UG/L	11.0000
OW24-MW11P-R01	11/04/98	CALCIUM	3080.0000	J	UG/L	28.0000
OW24-MW11P-R01	11/04/98	CHROMIUM	1.3000	B	UG/L	0.7000
OW24-MW11P-R01	11/04/98	COBALT	0.7900	J	UG/L	0.6000
OW24-MW11P-R01	11/04/98	COPPER	2.9000	B	UG/L	0.6000
OW24-MW11P-R01	11/04/98	CYANIDE	17.8000	B	UG/L	5.0000
OW24-MW11P-R01	11/04/98	DI-N-BUTYLPHTHALATE	1.0000	J	UG/L	11.0000
OW24-MW11P-R01	11/04/98	IRON	4170.0000		UG/L	23.5000
OW24-MW11P-R01	11/04/98	MAGNESIUM	2790.0000	J	UG/L	24.2000
OW24-MW11P-R01	11/04/98	MANGANESE	57.4000		UG/L	1.1000
OW24-MW11P-R01	11/04/98	METHYLENE CHLORIDE	0.8000	B	UG/L	2.0000
OW24-MW11P-R01	11/04/98	NICKEL	2.4000	J	UG/L	1.3000
OW24-MW11P-R01	11/04/98	POTASSIUM	710.0000	B	UG/L	20.2000
OW24-MW11P-R01	11/04/98	SELENIUM	2.0000	B	UG/L	1.9000
OW24-MW11P-R01	11/04/98	SODIUM	5110.0000	B	UG/L	210.0000
OW24-MW11P-R01	11/04/98	VANADIUM	0.8400	L	UG/L	0.8000
OW24-MW11P-R01	11/04/98	ZINC	26.4000	B	UG/L	2.0000
OW24-MW11-R01	11/04/98	4,4'-DDD	0.0590	B	UG/L	0.1100
OW24-MW11-R01	11/04/98	4,4'-DDT	0.0130	B	UG/L	0.1100
OW24-MW11-R01	11/04/98	ALUMINUM	1020.0000		UG/L	40.8000
OW24-MW11-R01	11/04/98	ARSENIC	8.1000	J	UG/L	3.0000
OW24-MW11-R01	11/04/98	BARIUM	11.8000	J	UG/L	0.4000
OW24-MW11-R01	11/04/98	BERYLLIUM	0.4100	J	UG/L	0.2000
OW24-MW11-R01	11/04/98	CALCIUM	3130.0000	J	UG/L	28.0000
OW24-MW11-R01	11/04/98	CHROMIUM	2.6000	B	UG/L	0.7000

SAMPLE_ID	DATE_COLLECTED	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM
OW24-MW11-R01	11/04/98	COBALT	0.8900	J	UG/L	0.6000
OW24-MW11-R01	11/04/98	COPPER	2.8000	B	UG/L	0.6000
OW24-MW11-R01	11/04/98	CYANIDE	56.7000	B	UG/L	5.0000
OW24-MW11-R01	11/04/98	IRON	4470.0000		UG/L	23.5000
OW24-MW11-R01	11/04/98	MAGNESIUM	2860.0000	J	UG/L	24.2000
OW24-MW11-R01	11/04/98	MANGANESE	59.2000		UG/L	1.1000
OW24-MW11-R01	11/04/98	METHYLENE CHLORIDE	1.0000	B	UG/L	2.0000
OW24-MW11-R01	11/04/98	NICKEL	4.7000	J	UG/L	1.3000
OW24-MW11-R01	11/04/98	POTASSIUM	849.0000	J	UG/L	20.2000
OW24-MW11-R01	11/04/98	SODIUM	5150.0000	B	UG/L	210.0000
OW24-MW11-R01	11/04/98	VANADIUM	1.6000	L	UG/L	0.8000
OW24-MW11-R01	11/04/98	ZINC	23.1000	B	UG/L	2.0000
OW24-MW1DF-R01	11/04/98	BARIUM	19.8000	J	UG/L	0.4000
OW24-MW1DF-R01	11/04/98	CALCIUM	79000.0000		UG/L	28.0000
OW24-MW1DF-R01	11/04/98	COPPER	2.5000	B	UG/L	0.6000
OW24-MW1DF-R01	11/04/98	IRON	2450.0000		UG/L	23.5000
OW24-MW1DF-R01	11/04/98	MAGNESIUM	9890.0000		UG/L	24.2000
OW24-MW1DF-R01	11/04/98	MANGANESE	199.0000		UG/L	1.1000
OW24-MW1DF-R01	11/04/98	POTASSIUM	3310.0000	J	UG/L	20.2000
OW24-MW1DF-R01	11/04/98	SELENIUM	3.0000	B	UG/L	1.9000
OW24-MW1DF-R01	11/04/98	SODIUM	25000.0000		UG/L	210.0000
OW24-MW1DF-R01	11/04/98	ZINC	14.0000	B	UG/L	2.0000
OW24-MW1D-R01	11/04/98	4,4'-DDD	0.0500	B	UG/L	0.1100
OW24-MW1D-R01	11/04/98	4,4'-DDT	0.0140	B	UG/L	0.1100
OW24-MW1D-R01	11/04/98	ALUMINUM	930.0000		UG/L	40.8000
OW24-MW1D-R01	11/04/98	ANTHRACENE	0.4900		UG/L	0.1100
OW24-MW1D-R01	11/04/98	BARIUM	24.1000	J	UG/L	0.4000
OW24-MW1D-R01	11/04/98	BENZO(A)ANTHRACENE	0.0260	B	UG/L	0.0110
OW24-MW1D-R01	11/04/98	BIS-(2-ETHYLHEXYL)PHTHALATE	1.0000	J	UG/L	11.0000
OW24-MW1D-R01	11/04/98	CALCIUM	80100.0000		UG/L	28.0000
OW24-MW1D-R01	11/04/98	CHROMIUM	4.0000	B	UG/L	0.7000
OW24-MW1D-R01	11/04/98	CIS-1,2-DICHLOROETHENE	0.4000	J	UG/L	1.0000
OW24-MW1D-R01	11/04/98	COBALT	0.8200	J	UG/L	0.6000
OW24-MW1D-R01	11/04/98	COPPER	3.6000	B	UG/L	0.6000
OW24-MW1D-R01	11/04/98	CYANIDE	27.7000	B	UG/L	5.0000
OW24-MW1D-R01	11/04/98	IRON	3910.0000		UG/L	23.5000
OW24-MW1D-R01	11/04/98	MAGNESIUM	10300.0000		UG/L	24.2000
OW24-MW1D-R01	11/04/98	MANGANESE	219.0000		UG/L	1.1000
OW24-MW1D-R01	11/04/98	METHYLENE CHLORIDE	0.9000	B	UG/L	2.0000
OW24-MW1D-R01	11/04/98	NICKEL	2.9000	J	UG/L	1.3000
OW24-MW1D-R01	11/04/98	PHENANTHRENE	0.0670		UG/L	0.0540
OW24-MW1D-R01	11/04/98	POTASSIUM	3540.0000	J	UG/L	20.2000
OW24-MW1D-R01	11/04/98	SELENIUM	2.7000	B	UG/L	1.9000
OW24-MW1D-R01	11/04/98	SODIUM	25300.0000		UG/L	210.0000
OW24-MW1D-R01	11/04/98	VANADIUM	3.6000	L	UG/L	0.8000
OW24-MW1D-R01	11/04/98	ZINC	18.5000	B	UG/L	2.0000
OW24-MW7F-R01	11/6/98	ALUMINUM	99.5000	B	UG/L	40.8000
OW24-MW7F-R01	11/6/98	ARSENIC	14.8000		UG/L	3.0000
OW24-MW7F-R01	11/6/98	BARIUM	15.5000	B	UG/L	0.4000
OW24-MW7F-R01	11/6/98	CALCIUM	8560.0000		UG/L	28.0000
OW24-MW7F-R01	11/6/98	CHROMIUM	2.2000	B	UG/L	0.7000
OW24-MW7F-R01	11/6/98	COBALT	2.4000	B	UG/L	0.6000
OW24-MW7F-R01	11/6/98	COPPER	3.6000	B	UG/L	0.6000
OW24-MW7F-R01	11/6/98	IRON	9090.0000		UG/L	23.5000
OW24-MW7F-R01	11/6/98	MAGNESIUM	3720.0000	J	UG/L	24.2000
OW24-MW7F-R01	11/6/98	MANGANESE	90.9000		UG/L	1.1000
OW24-MW7F-R01	11/6/98	NICKEL	6.1000	B	UG/L	1.3000
OW24-MW7F-R01	11/6/98	POTASSIUM	650.0000	J	UG/L	20.2000
OW24-MW7F-R01	11/6/98	SODIUM	8300.0000		UG/L	210.0000
OW24-MW7F-R01	11/6/98	ZINC	21.8000	B	UG/L	2.0000
OW24-MW7-R01	11/6/98	4,4'-DDD	0.0320	J	UG/L	0.1100
OW24-MW7-R01	11/6/98	4,4'-DDE	0.0057	J	UG/L	0.1100

SAMPLE_ID	DATE_COLLECTED	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM
OW24-MW7-R01	11/6/98	4,4'-DDT	0.0750	B	UG/L	0.1100
OW24-MW7-R01	11/6/98	ALUMINUM	623.0000		UG/L	40.8000
OW24-MW7-R01	11/6/98	ARSENIC	16.8000		UG/L	3.0000
OW24-MW7-R01	11/6/98	BARIUM	18.1000	B	UG/L	0.4000
OW24-MW7-R01	11/6/98	CALCIUM	7630.0000		UG/L	28.0000
OW24-MW7-R01	11/6/98	CHROMIUM	5.3000	B	UG/L	0.7000
OW24-MW7-R01	11/6/98	COBALT	2.6000	B	UG/L	0.6000
OW24-MW7-R01	11/6/98	COPPER	3.8000	B	UG/L	0.6000
OW24-MW7-R01	11/6/98	CYANIDE	17.8000	B	UG/L	5.0000
OW24-MW7-R01	11/6/98	DI-N-BUTYLPHTHALATE	9.0000	J	UG/L	11.0000
OW24-MW7-R01	11/6/98	IRON	9840.0000		UG/L	23.5000
OW24-MW7-R01	11/6/98	MAGNESIUM	3530.0000	J	UG/L	24.2000
OW24-MW7-R01	11/6/98	MANGANESE	80.1000		UG/L	1.1000
OW24-MW7-R01	11/6/98	METHYLENE CHLORIDE	0.2000	B	UG/L	2.0000
OW24-MW7-R01	11/6/98	NAPHTHALENE	0.3600	B	UG/L	2.2000
OW24-MW7-R01	11/6/98	NICKEL	7.8000	B	UG/L	1.3000
OW24-MW7-R01	11/6/98	PHENANTHRENE	0.0570	B	UG/L	0.0540
OW24-MW7-R01	11/6/98	POTASSIUM	700.0000	J	UG/L	20.2000
OW24-MW7-R01	11/6/98	SELENIUM	1.9000	J	UG/L	1.9000
OW24-MW7-R01	11/6/98	SODIUM	7800.0000		UG/L	210.0000
OW24-MW7-R01	11/6/98	VANADIUM	1.5000	B	UG/L	0.8000
OW24-MW7-R01	11/6/98	ZINC	20.9000	B	UG/L	2.0000
OW24-MW8F-R01	11/6/98	ALUMINUM	119.0000	B	UG/L	40.8000
OW24-MW8F-R01	11/6/98	BARIUM	27.6000	J	UG/L	0.4000
OW24-MW8F-R01	11/6/98	BERYLLIUM	0.3000	J	UG/L	0.2000
OW24-MW8F-R01	11/6/98	CALCIUM	5230.0000		UG/L	28.0000
OW24-MW8F-R01	11/6/98	COBALT	15.1000	J	UG/L	0.6000
OW24-MW8F-R01	11/6/98	COPPER	3.1000	B	UG/L	0.6000
OW24-MW8F-R01	11/6/98	IRON	2560.0000		UG/L	23.5000
OW24-MW8F-R01	11/6/98	MAGNESIUM	2920.0000	J	UG/L	24.2000
OW24-MW8F-R01	11/6/98	MANGANESE	66.1000		UG/L	1.1000
OW24-MW8F-R01	11/6/98	NICKEL	17.5000	B	UG/L	1.3000
OW24-MW8F-R01	11/6/98	POTASSIUM	927.0000	J	UG/L	20.2000
OW24-MW8F-R01	11/6/98	SODIUM	3850.0000	J	UG/L	210.0000
OW24-MW8F-R01	11/6/98	ZINC	28.3000	B	UG/L	2.0000
OW24-MW8-R01	11/6/98	ALUMINUM	768.0000		UG/L	40.8000
OW24-MW8-R01	11/6/98	ARSENIC	12.4000		UG/L	3.0000
OW24-MW8-R01	11/6/98	BARIUM	35.8000	J	UG/L	0.4000
OW24-MW8-R01	11/6/98	BERYLLIUM	0.5000	J	UG/L	0.2000
OW24-MW8-R01	11/6/98	CALCIUM	5660.0000		UG/L	28.0000
OW24-MW8-R01	11/6/98	CHROMIUM	1.4000	B	UG/L	0.7000
OW24-MW8-R01	11/6/98	COBALT	16.8000	J	UG/L	0.6000
OW24-MW8-R01	11/6/98	COPPER	3.8000	B	UG/L	0.6000
OW24-MW8-R01	11/6/98	CYANIDE	46.2000	B	UG/L	5.0000
OW24-MW8-R01	11/6/98	IRON	7610.0000		UG/L	23.5000
OW24-MW8-R01	11/6/98	LEAD	2.1000	J	UG/L	1.7000
OW24-MW8-R01	11/6/98	MAGNESIUM	3150.0000	J	UG/L	24.2000
OW24-MW8-R01	11/6/98	MANGANESE	71.2000		UG/L	1.1000
OW24-MW8-R01	11/6/98	METHYLENE CHLORIDE	0.3000	B	UG/L	2.0000
OW24-MW8-R01	11/6/98	NICKEL	18.9000	B	UG/L	1.3000
OW24-MW8-R01	11/6/98	POTASSIUM	930.0000	J	UG/L	20.2000
OW24-MW8-R01	11/6/98	SODIUM	3920.0000	J	UG/L	210.0000
OW24-MW8-R01	11/6/98	VANADIUM	2.8000	B	UG/L	0.8000
OW24-MW8-R01	11/6/98	ZINC	38.4000	B	UG/L	2.0000
OW24-MW9F-R01	11/6/98	ALUMINUM	61.8000	B	UG/L	40.8000
OW24-MW9F-R01	11/6/98	BARIUM	16.2000	B	UG/L	0.4000
OW24-MW9F-R01	11/6/98	CALCIUM	5830.0000		UG/L	28.0000
OW24-MW9F-R01	11/6/98	CHROMIUM	0.9900	B	UG/L	0.7000
OW24-MW9F-R01	11/6/98	COPPER	3.5000	B	UG/L	0.6000
OW24-MW9F-R01	11/6/98	IRON	6180.0000		UG/L	23.5000
OW24-MW9F-R01	11/6/98	MAGNESIUM	4470.0000	J	UG/L	24.2000
OW24-MW9F-R01	11/6/98	MANGANESE	121.0000		UG/L	1.1000

SAMPLE_ID	DATE_COLLECTED	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM
OW24-MW9F-R01	11/6/98	NICKEL	1.5000	B	UG/L	1.3000
OW24-MW9F-R01	11/6/98	POTASSIUM	949.0000	J	UG/L	20.2000
OW24-MW9F-R01	11/6/98	SODIUM	10600.0000		UG/L	210.0000
OW24-MW9F-R01	11/6/98	ZINC	14.5000	B	UG/L	2.0000
OW24-MW9-R01	11/6/98	ALUMINUM	2070.0000		UG/L	40.8000
OW24-MW9-R01	11/6/98	BARIUM	49.4000	J	UG/L	0.4000
OW24-MW9-R01	11/6/98	BERYLLIUM	0.3200	J	UG/L	0.2000
OW24-MW9-R01	11/6/98	CALCIUM	6010.0000		UG/L	28.0000
OW24-MW9-R01	11/6/98	CARBON DISULFIDE	0.6000	J	UG/L	1.0000
OW24-MW9-R01	11/6/98	CHROMIUM	5.6000	B	UG/L	0.7000
OW24-MW9-R01	11/6/98	CIS-1,2-DICHLOROETHENE	2.2000		UG/L	1.0000
OW24-MW9-R01	11/6/98	COBALT	2.7000	B	UG/L	0.6000
OW24-MW9-R01	11/6/98	COPPER	7.3000	B	UG/L	0.6000
OW24-MW9-R01	11/6/98	CYANIDE	33.6000	B	UG/L	5.0000
OW24-MW9-R01	11/6/98	IRON	8760.0000		UG/L	23.5000
OW24-MW9-R01	11/6/98	LEAD	3.8000		UG/L	1.7000
OW24-MW9-R01	11/6/98	MAGNESIUM	5180.0000		UG/L	24.2000
OW24-MW9-R01	11/6/98	MANGANESE	143.0000		UG/L	1.1000
OW24-MW9-R01	11/6/98	METHYLENE CHLORIDE	0.3000	B	UG/L	2.0000
OW24-MW9-R01	11/6/98	NICKEL	6.6000	B	UG/L	1.3000
OW24-MW9-R01	11/6/98	POTASSIUM	1310.0000	J	UG/L	20.2000
OW24-MW9-R01	11/6/98	SODIUM	9700.0000		UG/L	210.0000
OW24-MW9-R01	11/6/98	TRICHLOROETHENE	8.8000		UG/L	1.0000
OW24-MW9-R01	11/6/98	VANADIUM	10.7000	J	UG/L	0.8000
OW24-MW9-R01	11/6/98	ZINC	32.0000	B	UG/L	2.0000
OW24-PZ3DF-R01	11/04/98	ALUMINUM	50.7000	B	UG/L	40.8000
OW24-PZ3DF-R01	11/04/98	ARSENIC	22.4000		UG/L	3.0000
OW24-PZ3DF-R01	11/04/98	BARIUM	25.3000	J	UG/L	0.4000
OW24-PZ3DF-R01	11/04/98	CALCIUM	6230.0000		UG/L	28.0000
OW24-PZ3DF-R01	11/04/98	COPPER	3.4000	B	UG/L	0.6000
OW24-PZ3DF-R01	11/04/98	IRON	13800.0000		UG/L	23.5000
OW24-PZ3DF-R01	11/04/98	MAGNESIUM	4260.0000	J	UG/L	24.2000
OW24-PZ3DF-R01	11/04/98	MANGANESE	79.6000		UG/L	1.1000
OW24-PZ3DF-R01	11/04/98	NICKEL	1.4000	J	UG/L	1.3000
OW24-PZ3DF-R01	11/04/98	POTASSIUM	2090.0000	J	UG/L	20.2000
OW24-PZ3DF-R01	11/04/98	SELENIUM	2.8000	B	UG/L	1.9000
OW24-PZ3DF-R01	11/04/98	SODIUM	10500.0000	B	UG/L	210.0000
OW24-PZ3DF-R01	11/04/98	VANADIUM	0.9400	L	UG/L	0.8000
OW24-PZ3DF-R01	11/04/98	ZINC	19.4000	B	UG/L	2.0000
OW24-PZ3D-R01	11/04/98	4,4'-DDD	0.0230	B	UG/L	0.1000
OW24-PZ3D-R01	11/04/98	4,4'-DDT	0.0390	B	UG/L	0.1000
OW24-PZ3D-R01	11/04/98	ALUMINUM	906.0000		UG/L	40.8000
OW24-PZ3D-R01	11/04/98	ARSENIC	48.4000		UG/L	3.0000
OW24-PZ3D-R01	11/04/98	BARIUM	38.4000	J	UG/L	0.4000
OW24-PZ3D-R01	11/04/98	BENZENE	0.1000	J	UG/L	1.0000
OW24-PZ3D-R01	11/04/98	BERYLLIUM	0.2500	J	UG/L	0.2000
OW24-PZ3D-R01	11/04/98	CALCIUM	6550.0000		UG/L	28.0000
OW24-PZ3D-R01	11/04/98	CHROMIUM	3.0000	B	UG/L	0.7000
OW24-PZ3D-R01	11/04/98	CIS-1,2-DICHLOROETHENE	39.1000		UG/L	2.0000
OW24-PZ3D-R01	11/04/98	COBALT	1.0000	J	UG/L	0.6000
OW24-PZ3D-R01	11/04/98	COPPER	6.6000	B	UG/L	0.6000
OW24-PZ3D-R01	11/04/98	CYANIDE	23.9000	B	UG/L	5.0000
OW24-PZ3D-R01	11/04/98	ENDRIN KETONE	0.0030	B	UG/L	0.1000
OW24-PZ3D-R01	11/04/98	IRON	20800.0000		UG/L	23.5000
OW24-PZ3D-R01	11/04/98	LEAD	2.5000	J	UG/L	1.7000
OW24-PZ3D-R01	11/04/98	MAGNESIUM	4590.0000	J	UG/L	24.2000
OW24-PZ3D-R01	11/04/98	MANGANESE	91.1000		UG/L	1.1000
OW24-PZ3D-R01	11/04/98	METHYLENE CHLORIDE	0.5000	B	UG/L	2.0000
OW24-PZ3D-R01	11/04/98	NICKEL	3.5000	J	UG/L	1.3000
OW24-PZ3D-R01	11/04/98	POTASSIUM	2080.0000	J	UG/L	20.2000
OW24-PZ3D-R01	11/04/98	SELENIUM	4.8000	B	UG/L	1.9000
OW24-PZ3D-R01	11/04/98	SODIUM	10200.0000	B	UG/L	210.0000

SAMPLE_ID	DATE_COLLECTED	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM
OW24-PZ3D-R01	11/04/98	TRANS-1,2-DICHLOROETHENE	4.5000		UG/L	1.0000
OW24-PZ3D-R01	11/04/98	TRICHLOROETHENE	1.9000		UG/L	1.0000
OW24-PZ3D-R01	11/04/98	VANADIUM	6.2000	L	UG/L	0.8000
OW24-PZ3D-R01	11/04/98	ZINC	43.0000	B	UG/L	2.0000
OW24-PZ3SF-R01	11/04/98	ARSENIC	224.0000		UG/L	3.0000
OW24-PZ3SF-R01	11/04/98	BARIUM	37.2000	J	UG/L	0.4000
OW24-PZ3SF-R01	11/04/98	CALCIUM	15200.0000		UG/L	28.0000
OW24-PZ3SF-R01	11/04/98	CHROMIUM	1.4000	B	UG/L	0.7000
OW24-PZ3SF-R01	11/04/98	COBALT	1.1000	J	UG/L	0.6000
OW24-PZ3SF-R01	11/04/98	COPPER	2.8000	B	UG/L	0.6000
OW24-PZ3SF-R01	11/04/98	IRON	69300.0000		UG/L	23.5000
OW24-PZ3SF-R01	11/04/98	MAGNESIUM	5580.0000		UG/L	24.2000
OW24-PZ3SF-R01	11/04/98	MANGANESE	70.9000		UG/L	1.1000
OW24-PZ3SF-R01	11/04/98	NICKEL	5.7000	J	UG/L	1.3000
OW24-PZ3SF-R01	11/04/98	POTASSIUM	1120.0000	J	UG/L	20.2000
OW24-PZ3SF-R01	11/04/98	SELENIUM	5.9000	B	UG/L	1.9000
OW24-PZ3SF-R01	11/04/98	SODIUM	8820.0000	B	UG/L	210.0000
OW24-PZ3SF-R01	11/04/98	VANADIUM	1.5000	L	UG/L	0.8000
OW24-PZ3SF-R01	11/04/98	ZINC	19.6000	B	UG/L	2.0000
OW24-PZ3S-R01	11/04/98	1,1-DICHLOROETHENE	0.2000	J	UG/L	1.0000
OW24-PZ3S-R01	11/04/98	4,4'-DDD	0.0220	L	UG/L	0.1000
OW24-PZ3S-R01	11/04/98	4,4'-DDT	0.0150	B	UG/L	0.1000
OW24-PZ3S-R01	11/04/98	ACENAPHTHENE	0.7700	K	UG/L	0.2200
OW24-PZ3S-R01	11/04/98	ALUMINUM	3920.0000		UG/L	40.8000
OW24-PZ3S-R01	11/04/98	ANTHRACENE	0.3400	K	UG/L	0.1100
OW24-PZ3S-R01	11/04/98	ARSENIC	222.0000		UG/L	3.0000
OW24-PZ3S-R01	11/04/98	BARIUM	60.7000	J	UG/L	0.4000
OW24-PZ3S-R01	11/04/98	BENZENE	1.1000		UG/L	1.0000
OW24-PZ3S-R01	11/04/98	BERYLLIUM	0.2600	J	UG/L	0.2000
OW24-PZ3S-R01	11/04/98	CALCIUM	15800.0000		UG/L	28.0000
OW24-PZ3S-R01	11/04/98	CHROMIUM	6.2000	B	UG/L	0.7000
OW24-PZ3S-R01	11/04/98	CIS-1,2-DICHLOROETHENE	500.0000		UG/L	100.0000
OW24-PZ3S-R01	11/04/98	COBALT	2.1000	J	UG/L	0.6000
OW24-PZ3S-R01	11/04/98	COPPER	6.8000	B	UG/L	0.6000
OW24-PZ3S-R01	11/04/98	CYANIDE	7.3000	B	UG/L	5.0000
OW24-PZ3S-R01	11/04/98	FLUORENE	1.2000	K	UG/L	0.4300
OW24-PZ3S-R01	11/04/98	IRON	77700.0000		UG/L	23.5000
OW24-PZ3S-R01	11/04/98	LEAD	5.3000		UG/L	1.7000
OW24-PZ3S-R01	11/04/98	MAGNESIUM	6100.0000		UG/L	24.2000
OW24-PZ3S-R01	11/04/98	MANGANESE	80.0000		UG/L	1.1000
OW24-PZ3S-R01	11/04/98	METHYLENE CHLORIDE	0.6000	B	UG/L	2.0000
OW24-PZ3S-R01	11/04/98	NAPHTHALENE	1.4000	K	UG/L	2.2000
OW24-PZ3S-R01	11/04/98	NICKEL	5.4000	B	UG/L	1.3000
OW24-PZ3S-R01	11/04/98	POTASSIUM	1400.0000	J	UG/L	20.2000
OW24-PZ3S-R01	11/04/98	SELENIUM	5.3000	B	UG/L	1.9000
OW24-PZ3S-R01	11/04/98	SODIUM	9240.0000	B	UG/L	210.0000
OW24-PZ3S-R01	11/04/98	TRANS-1,2-DICHLOROETHENE	65.0000	J	UG/L	100.0000
OW24-PZ3S-R01	11/04/98	TRICHLOROETHENE	0.6000	J	UG/L	1.0000
OW24-PZ3S-R01	11/04/98	VANADIUM	8.2000	L	UG/L	0.8000
OW24-PZ3S-R01	11/04/98	VINYL CHLORIDE	2.5000		UG/L	1.0000
OW24-PZ3S-R01	11/04/98	ZINC	20.2000	B	UG/L	2.0000

Notes:
B = Chemical found in the sample at levels nearly equivalent to the blank
K = Biased high so actual value is possbley lower
L = Biased low and actual value possibly higher

Appendix A-3

Summary of Non-Detected Chemicals in SWMU 24 Groundwater where the Detection Limit Exceeded the Screening Level or MCL

SAMPLE_ID	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM	RegCritValue	Criteria	Exceedance Quotient
OW01-MW02-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW01-MW02-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW01-MW02-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW01-MW02-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW01-MW02-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW01-MW02-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW01-MW02-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW01-MW02-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW01-MW02-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW01-MW02-R01	BENZENE	1	U	UG/L	1	0.36	RBC Tap	2.8
OW01-MW02-R01	BENZO(A)PYRENE	0.11	U	UG/L	0.11	0.0092	RBC Tap	12.0
OW01-MW02-R01	BENZO(B)FLUORANTHENE	0.43	U	UG/L	0.43	0.092	RBC Tap	4.7
OW01-MW02-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW01-MW02-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW01-MW02-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW01-MW02-R01	DIBENZ(A,H)ANTHRACENE	0.22	U	UG/L	0.22	0.0092	RBC Tap	23.9
OW01-MW02-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW01-MW02-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW01-MW02-R01	INDENO(1,2,3-CD)PYRENE	0.43	U	UG/L	0.43	0.092	RBC Tap	4.7
OW01-MW02-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW01-MW03-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW01-MW03-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW01-MW03-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW01-MW03-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW01-MW03-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW01-MW03-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW01-MW03-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW01-MW03-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW01-MW03-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW01-MW03-R01	BENZENE	1	U	UG/L	1	0.36	RBC Tap	2.8
OW01-MW03-R01	BENZO(A)PYRENE	0.1	U	UG/L	0.1	0.0092	RBC Tap	10.9
OW01-MW03-R01	BENZO(B)FLUORANTHENE	0.4	U	UG/L	0.4	0.092	RBC Tap	4.3
OW01-MW03-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW01-MW03-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW01-MW03-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW01-MW03-R01	DIBENZ(A,H)ANTHRACENE	0.2	U	UG/L	0.2	0.0092	RBC Tap	21.7
OW01-MW03-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW01-MW03-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW01-MW03-R01	INDENO(1,2,3-CD)PYRENE	0.4	U	UG/L	0.4	0.092	RBC Tap	4.3
OW01-MW03-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW01-MW04P-R01	1,1,1,2-TETRACHLOROETHANE	10	U	UG/L	10	0.41	RBC Tap	24.4
OW01-MW04P-R01	1,1,2,2-TETRACHLOROETHANE	10	U	UG/L	10	0.053	RBC Tap	188.7
OW01-MW04P-R01	1,1,2-TRICHLOROETHANE	10	U	UG/L	10	0.19	RBC Tap	52.6
OW01-MW04P-R01	1,1-DICHLOROETHENE	10	U	UG/L	10	0.044	RBC Tap	227.3
OW01-MW04P-R01	1,2,3-TRICHLOROPROPANE	10	U	UG/L	10	0.0015	RBC Tap	6666.7
OW01-MW04P-R01	1,2-DIBROMOETHANE	10	U	UG/L	10	0.00075	RBC Tap	13333.3
OW01-MW04P-R01	1,2-DICHLOROETHANE	10	U	UG/L	10	0.12	RBC Tap	83.3
OW01-MW04P-R01	1,2-DICHLOROPROPANE	10	U	UG/L	10	0.16	RBC Tap	62.5
OW01-MW04P-R01	1,4-DICHLOROBENZENE	10	U	UG/L	10	0.47	RBC Tap	21.3
OW01-MW04P-R01	BENZENE	10	U	UG/L	10	0.36	RBC Tap	27.8
OW01-MW04P-R01	BENZO(A)ANTHRACENE	1.1	U	UG/L	1.1	0.092	RBC Tap	12.0
OW01-MW04P-R01	BENZO(A)PYRENE	11	U	UG/L	11	0.0092	RBC Tap	1195.7
OW01-MW04P-R01	BENZO(B)FLUORANTHENE	43	U	UG/L	43	0.092	RBC Tap	467.4
OW01-MW04P-R01	BENZO(K)FLUORANTHENE	86	U	UG/L	86	0.92	RBC Tap	93.5
OW01-MW04P-R01	BROMODICHLOROMETHANE	10	U	UG/L	10	0.17	RBC Tap	58.8
OW01-MW04P-R01	BROMOFORM	10	U	UG/L	10	2.3	RBC Tap	4.3
OW01-MW04P-R01	BROMOMETHANE	10	U	UG/L	10	8.5	RBC Tap	1.2
OW01-MW04P-R01	CARBON TETRACHLORIDE	10	U	UG/L	10	0.16	RBC Tap	62.5
OW01-MW04P-R01	CHLOROETHANE	10	U	UG/L	10	3.6	RBC Tap	2.8
OW01-MW04P-R01	CHLOROMETHANE	10	U	UG/L	10	1.5	RBC Tap	6.7
OW01-MW04P-R01	DIBENZ(A,H)ANTHRACENE	22	U	UG/L	22	0.0092	RBC Tap	2391.3
OW01-MW04P-R01	DIBROMOCHLOROMETHANE	10	U	UG/L	10	0.13	RBC Tap	76.9
OW01-MW04P-R01	HEXACHLORO-1,3-BUTADIENE	10	U	UG/L	10	0.14	RBC Tap	71.4
OW01-MW04P-R01	INDENO(1,2,3-CD)PYRENE	43	U	UG/L	43	0.092	RBC Tap	467.4
OW01-MW04P-R01	TETRACHLOROETHENE	10	U	UG/L	10	1.1	RBC Tap	9.1
OW01-MW04P-R01	TRICHLOROETHENE	10	U	UG/L	10	1.6	RBC Tap	6.3
OW01-MW04P-R01	VINYL CHLORIDE	10	U	UG/L	10	0.019	RBC Tap	526.3
OW01-MW04-R01	1,1,1,2-TETRACHLOROETHANE	5	UL	UG/L	5	0.41	RBC Tap	12.2
OW01-MW04-R01	1,1,2,2-TETRACHLOROETHANE	5	UL	UG/L	5	0.053	RBC Tap	94.3
OW01-MW04-R01	1,1,2-TRICHLOROETHANE	5	UL	UG/L	5	0.19	RBC Tap	26.3
OW01-MW04-R01	1,1-DICHLOROETHENE	5	UL	UG/L	5	0.044	RBC Tap	113.6
OW01-MW04-R01	1,2,3-TRICHLOROPROPANE	5	UL	UG/L	5	0.0015	RBC Tap	3333.3

SAMPLE_ID	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM	RegCritValue	Criteria	Exceedance Quotient
OW01-MW04-R01	1,2-DIBROMOETHANE	5	UL	UG/L	5	0.00075	RBC Tap	6666.7
OW01-MW04-R01	1,2-DICHLOROETHANE	5	UL	UG/L	5	0.12	RBC Tap	41.7
OW01-MW04-R01	1,2-DICHLOROPROPANE	5	UL	UG/L	5	0.16	RBC Tap	31.3
OW01-MW04-R01	1,4-DICHLOROBENZENE	5	UL	UG/L	5	0.47	RBC Tap	10.6
OW01-MW04-R01	BENZO(A)ANTHRACENE	1.1	U	UG/L	1.1	0.092	RBC Tap	12.0
OW01-MW04-R01	BENZO(A)PYRENE	11	U	UG/L	11	0.0092	RBC Tap	1195.7
OW01-MW04-R01	BENZO(B)FLUORANTHENE	42	U	UG/L	42	0.092	RBC Tap	456.5
OW01-MW04-R01	BENZO(K)FLUORANTHENE	84	U	UG/L	84	0.92	RBC Tap	91.3
OW01-MW04-R01	BROMODICHLOROMETHANE	5	UL	UG/L	5	0.17	RBC Tap	29.4
OW01-MW04-R01	BROMOFORM	5	UL	UG/L	5	2.3	RBC Tap	2.2
OW01-MW04-R01	CARBON TETRACHLORIDE	5	UL	UG/L	5	0.16	RBC Tap	31.3
OW01-MW04-R01	CHLOROETHANE	5	UL	UG/L	5	3.6	RBC Tap	1.4
OW01-MW04-R01	CHLOROMETHANE	5	UL	UG/L	5	1.5	RBC Tap	3.3
OW01-MW04-R01	DIBENZ(A,H)ANTHRACENE	21	U	UG/L	21	0.0092	RBC Tap	2282.6
OW01-MW04-R01	DIBROMOCHLOROMETHANE	5	UL	UG/L	5	0.13	RBC Tap	38.5
OW01-MW04-R01	HEXACHLORO-1,3-BUTADIENE	5	UL	UG/L	5	0.14	RBC Tap	35.7
OW01-MW04-R01	INDENO(1,2,3-CD)PYRENE	42	U	UG/L	42	0.092	RBC Tap	456.5
OW01-MW04-R01	TETRACHLOROETHENE	5	UL	UG/L	5	1.1	RBC Tap	4.5
OW01-MW04-R01	TRICHLOROETHENE	5	UL	UG/L	5	1.6	RBC Tap	3.1
OW01-MW04-R01	VINYL CHLORIDE	5	UL	UG/L	5	0.019	RBC Tap	263.2
OW01-MW05-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW01-MW05-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW01-MW05-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW01-MW05-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW01-MW05-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW01-MW05-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW01-MW05-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW01-MW05-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW01-MW05-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW01-MW05-R01	BENZO(A)ANTHRACENE	0.21	U	UG/L	0.21	0.092	RBC Tap	2.3
OW01-MW05-R01	BENZO(A)PYRENE	2.1	U	UG/L	2.1	0.0092	RBC Tap	228.3
OW01-MW05-R01	BENZO(B)FLUORANTHENE	8.3	U	UG/L	8.3	0.092	RBC Tap	90.2
OW01-MW05-R01	BENZO(K)FLUORANTHENE	17	U	UG/L	17	0.92	RBC Tap	18.5
OW01-MW05-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW01-MW05-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW01-MW05-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW01-MW05-R01	DIBENZ(A,H)ANTHRACENE	4.2	U	UG/L	4.2	0.0092	RBC Tap	456.5
OW01-MW05-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW01-MW05-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW01-MW05-R01	INDENO(1,2,3-CD)PYRENE	8.3	U	UG/L	8.3	0.092	RBC Tap	90.2
OW01-MW05-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW01-PZ03-R01	1,1,1,2-TETRACHLOROETHANE	10	U	UG/L	10	0.41	RBC Tap	24.4
OW01-PZ03-R01	1,1,2,2-TETRACHLOROETHANE	10	U	UG/L	10	0.053	RBC Tap	188.7
OW01-PZ03-R01	1,1,2-TRICHLOROETHANE	10	U	UG/L	10	0.19	RBC Tap	52.6
OW01-PZ03-R01	1,1-DICHLOROETHENE	10	U	UG/L	10	0.044	RBC Tap	227.3
OW01-PZ03-R01	1,2,3-TRICHLOROPROPANE	10	U	UG/L	10	0.0015	RBC Tap	6666.7
OW01-PZ03-R01	1,2-DIBROMOETHANE	10	U	UG/L	10	0.00075	RBC Tap	13333.3
OW01-PZ03-R01	1,2-DICHLOROETHANE	10	U	UG/L	10	0.12	RBC Tap	83.3
OW01-PZ03-R01	1,2-DICHLOROPROPANE	10	U	UG/L	10	0.16	RBC Tap	62.5
OW01-PZ03-R01	1,4-DICHLOROBENZENE	10	U	UG/L	10	0.47	RBC Tap	21.3
OW01-PZ03-R01	BENZO(A)ANTHRACENE	0.11	U	UG/L	0.11	0.092	RBC Tap	1.2
OW01-PZ03-R01	BENZO(A)PYRENE	1.1	U	UG/L	1.1	0.0092	RBC Tap	119.6
OW01-PZ03-R01	BENZO(B)FLUORANTHENE	4.2	U	UG/L	4.2	0.092	RBC Tap	45.7
OW01-PZ03-R01	BENZO(K)FLUORANTHENE	8.4	U	UG/L	8.4	0.92	RBC Tap	9.1
OW01-PZ03-R01	BROMODICHLOROMETHANE	10	U	UG/L	10	0.17	RBC Tap	58.8
OW01-PZ03-R01	BROMOFORM	10	U	UG/L	10	2.3	RBC Tap	4.3
OW01-PZ03-R01	BROMOMETHANE	10	U	UG/L	10	8.5	RBC Tap	1.2
OW01-PZ03-R01	CARBON TETRACHLORIDE	10	U	UG/L	10	0.16	RBC Tap	62.5
OW01-PZ03-R01	CHLOROETHANE	10	U	UG/L	10	3.6	RBC Tap	2.8
OW01-PZ03-R01	CHLOROMETHANE	10	U	UG/L	10	1.5	RBC Tap	6.7
OW01-PZ03-R01	DIBENZ(A,H)ANTHRACENE	2.1	U	UG/L	2.1	0.0092	RBC Tap	228.3
OW01-PZ03-R01	DIBROMOCHLOROMETHANE	10	U	UG/L	10	0.13	RBC Tap	76.9
OW01-PZ03-R01	HEXACHLORO-1,3-BUTADIENE	10	U	UG/L	10	0.14	RBC Tap	71.4
OW01-PZ03-R01	INDENO(1,2,3-CD)PYRENE	4.2	U	UG/L	4.2	0.092	RBC Tap	45.7
OW01-PZ03-R01	TETRACHLOROETHENE	10	U	UG/L	10	1.1	RBC Tap	9.1
OW01-PZ03-R01	TRICHLOROETHENE	10	U	UG/L	10	1.6	RBC Tap	6.3
OW01-PZ03-R01	VINYL CHLORIDE	10	U	UG/L	10	0.019	RBC Tap	526.3
OW01-PZ04-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW01-PZ04-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW01-PZ04-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW01-PZ04-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW01-PZ04-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7

SAMPLE_ID	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM	RegCritValue	Criteria	Exceedance Quotient
OW01-PZ04-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW01-PZ04-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW01-PZ04-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW01-PZ04-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW01-PZ04-R01	BENZO(A)PYRENE	0.53	U	UG/L	0.53	0.0092	RBC Tap	57.6
OW01-PZ04-R01	BENZO(B)FLUORANTHENE	2.1	U	UG/L	2.1	0.092	RBC Tap	22.8
OW01-PZ04-R01	BENZO(K)FLUORANTHENE	4.3	U	UG/L	4.3	0.92	RBC Tap	4.7
OW01-PZ04-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW01-PZ04-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW01-PZ04-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW01-PZ04-R01	DIBENZ(A,H)ANTHRACENE	1.1	U	UG/L	1.1	0.0092	RBC Tap	119.6
OW01-PZ04-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW01-PZ04-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW01-PZ04-R01	INDENO(1,2,3-CD)PYRENE	2.1	U	UG/L	2.1	0.092	RBC Tap	22.8
OW01-PZ04-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW01-PZ05-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW01-PZ05-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW01-PZ05-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW01-PZ05-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW01-PZ05-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW01-PZ05-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW01-PZ05-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW01-PZ05-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW01-PZ05-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW01-PZ05-R01	BENZENE	1	U	UG/L	1	0.36	RBC Tap	2.8
OW01-PZ05-R01	BENZO(A)PYRENE	0.1	U	UG/L	0.1	0.0092	RBC Tap	10.9
OW01-PZ05-R01	BENZO(B)FLUORANTHENE	0.41	U	UG/L	0.41	0.092	RBC Tap	4.5
OW01-PZ05-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW01-PZ05-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW01-PZ05-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW01-PZ05-R01	DIBENZ(A,H)ANTHRACENE	0.2	U	UG/L	0.2	0.0092	RBC Tap	21.7
OW01-PZ05-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW01-PZ05-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW01-PZ05-R01	INDENO(1,2,3-CD)PYRENE	0.41	U	UG/L	0.41	0.092	RBC Tap	4.5
OW01-PZ05-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW1-MW10-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW1-MW10-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW1-MW10-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW1-MW10-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW1-MW10-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW1-MW10-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW1-MW10-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW1-MW10-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-MW10-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW1-MW10-R01	BENZENE	1	U	UG/L	1	0.36	RBC Tap	2.8
OW1-MW10-R01	BENZO(A)PYRENE	0.11	U	UG/L	0.11	0.0092	RBC Tap	12.0
OW1-MW10-R01	BENZO(B)FLUORANTHENE	0.45	U	UG/L	0.45	0.092	RBC Tap	4.9
OW1-MW10-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW1-MW10-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-MW10-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW1-MW10-R01	DIBENZ(A,H)ANTHRACENE	0.22	U	UG/L	0.22	0.0092	RBC Tap	23.9
OW1-MW10-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW1-MW10-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW1-MW10-R01	INDENO(1,2,3-CD)PYRENE	0.45	U	UG/L	0.45	0.092	RBC Tap	4.9
OW1-MW10-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW1-MW6-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW1-MW6-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW1-MW6-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW1-MW6-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW1-MW6-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW1-MW6-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW1-MW6-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW1-MW6-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-MW6-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW1-MW6-R01	BENZENE	1	U	UG/L	1	0.36	RBC Tap	2.8
OW1-MW6-R01	BENZO(A)PYRENE	0.1	U	UG/L	0.1	0.0092	RBC Tap	10.9
OW1-MW6-R01	BENZO(B)FLUORANTHENE	0.42	U	UG/L	0.42	0.092	RBC Tap	4.6
OW1-MW6-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW1-MW6-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-MW6-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW1-MW6-R01	DIBENZ(A,H)ANTHRACENE	0.21	U	UG/L	0.21	0.0092	RBC Tap	22.8
OW1-MW6-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7

SAMPLE_ID	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM	RegCritValue	Criteria	Exceedance Quotient
OW1-MW6-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW1-MW6-R01	INDENO(1,2,3-CD)PYRENE	0.42	U	UG/L	0.42	0.092	RBC Tap	4.6
OW1-MW6-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW1-MW7D-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW1-MW7D-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW1-MW7D-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW1-MW7D-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW1-MW7D-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW1-MW7D-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW1-MW7D-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW1-MW7D-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-MW7D-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW1-MW7D-R01	BENZENE	1	U	UG/L	1	0.36	RBC Tap	2.8
OW1-MW7D-R01	BENZO(A)PYRENE	0.1	U	UG/L	0.1	0.0092	RBC Tap	10.9
OW1-MW7D-R01	BENZO(B)FLUORANTHENE	0.42	U	UG/L	0.42	0.092	RBC Tap	4.6
OW1-MW7D-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW1-MW7D-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-MW7D-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW1-MW7D-R01	DIBENZ(A,H)ANTHRACENE	0.21	U	UG/L	0.21	0.0092	RBC Tap	22.8
OW1-MW7D-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW1-MW7D-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW1-MW7D-R01	INDENO(1,2,3-CD)PYRENE	0.42	U	UG/L	0.42	0.092	RBC Tap	4.6
OW1-MW7D-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW1-MW7-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW1-MW7-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW1-MW7-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW1-MW7-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW1-MW7-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW1-MW7-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW1-MW7-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW1-MW7-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-MW7-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW1-MW7-R01	BENZENE	1	U	UG/L	1	0.36	RBC Tap	2.8
OW1-MW7-R01	BENZO(A)PYRENE	0.1	U	UG/L	0.1	0.0092	RBC Tap	10.9
OW1-MW7-R01	BENZO(B)FLUORANTHENE	0.42	U	UG/L	0.42	0.092	RBC Tap	4.6
OW1-MW7-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW1-MW7-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-MW7-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW1-MW7-R01	DIBENZ(A,H)ANTHRACENE	0.21	U	UG/L	0.21	0.0092	RBC Tap	22.8
OW1-MW7-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW1-MW7-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW1-MW7-R01	INDENO(1,2,3-CD)PYRENE	0.42	U	UG/L	0.42	0.092	RBC Tap	4.6
OW1-MW7-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW1-MW8D-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW1-MW8D-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW1-MW8D-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW1-MW8D-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW1-MW8D-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW1-MW8D-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW1-MW8D-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW1-MW8D-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-MW8D-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW1-MW8D-R01	BENZENE	1	U	UG/L	1	0.36	RBC Tap	2.8
OW1-MW8D-R01	BENZO(A)PYRENE	0.5	U	UG/L	0.5	0.0092	RBC Tap	54.3
OW1-MW8D-R01	BENZO(B)FLUORANTHENE	2	U	UG/L	2	0.092	RBC Tap	21.7
OW1-MW8D-R01	BENZO(K)FLUORANTHENE	4	U	UG/L	4	0.92	RBC Tap	4.3
OW1-MW8D-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW1-MW8D-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-MW8D-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW1-MW8D-R01	DIBENZ(A,H)ANTHRACENE	1	U	UG/L	1	0.0092	RBC Tap	108.7
OW1-MW8D-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW1-MW8D-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW1-MW8D-R01	INDENO(1,2,3-CD)PYRENE	2	U	UG/L	2	0.092	RBC Tap	21.7
OW1-MW8D-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW1-MW8-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW1-MW8-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW1-MW8-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW1-MW8-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW1-MW8-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW1-MW8-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW1-MW8-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW1-MW8-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3

SAMPLE_ID	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM	RegCritValue	Criteria	Exceedance Quotient
OW1-MW8-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW1-MW8-R01	BENZO(A)PYRENE	0.1	U	UG/L	0.1	0.0092	RBC Tap	10.9
OW1-MW8-R01	BENZO(B)FLUORANTHENE	0.41	U	UG/L	0.41	0.092	RBC Tap	4.5
OW1-MW8-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW1-MW8-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-MW8-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW1-MW8-R01	DIBENZ(A,H)ANTHRACENE	0.2	U	UG/L	0.2	0.0092	RBC Tap	21.7
OW1-MW8-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW1-MW8-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW1-MW8-R01	INDENO(1,2,3-CD)PYRENE	0.41	U	UG/L	0.41	0.092	RBC Tap	4.5
OW1-MW8-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW1-PZ1-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW1-PZ1-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW1-PZ1-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW1-PZ1-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW1-PZ1-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW1-PZ1-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW1-PZ1-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW1-PZ1-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-PZ1-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW1-PZ1-R01	BENZENE	1	U	UG/L	1	0.36	RBC Tap	2.8
OW1-PZ1-R01	BENZO(B)FLUORANTHENE	0.42	U	UG/L	0.42	0.092	RBC Tap	4.6
OW1-PZ1-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW1-PZ1-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-PZ1-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW1-PZ1-R01	DIBENZ(A,H)ANTHRACENE	0.21	U	UG/L	0.21	0.0092	RBC Tap	22.8
OW1-PZ1-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW1-PZ1-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW1-PZ1-R01	INDENO(1,2,3-CD)PYRENE	0.42	U	UG/L	0.42	0.092	RBC Tap	4.6
OW1-PZ1-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW1-PZ2P-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW1-PZ2P-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW1-PZ2P-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW1-PZ2P-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW1-PZ2P-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW1-PZ2P-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW1-PZ2P-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW1-PZ2P-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-PZ2P-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW1-PZ2P-R01	BENZO(A)PYRENE	0.1	U	UG/L	0.1	0.0092	RBC Tap	10.9
OW1-PZ2P-R01	BENZO(B)FLUORANTHENE	0.41	U	UG/L	0.41	0.092	RBC Tap	4.5
OW1-PZ2P-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW1-PZ2P-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-PZ2P-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW1-PZ2P-R01	DIBENZ(A,H)ANTHRACENE	0.2	U	UG/L	0.2	0.0092	RBC Tap	21.7
OW1-PZ2P-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW1-PZ2P-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW1-PZ2P-R01	INDENO(1,2,3-CD)PYRENE	0.41	U	UG/L	0.41	0.092	RBC Tap	4.5
OW1-PZ2P-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW1-PZ2-R01	1,1,1,2-TETRACHLOROETHANE	1	U	UG/L	1	0.41	RBC Tap	2.4
OW1-PZ2-R01	1,1,2,2-TETRACHLOROETHANE	1	U	UG/L	1	0.053	RBC Tap	18.9
OW1-PZ2-R01	1,1,2-TRICHLOROETHANE	1	U	UG/L	1	0.19	RBC Tap	5.3
OW1-PZ2-R01	1,1-DICHLOROETHENE	1	U	UG/L	1	0.044	RBC Tap	22.7
OW1-PZ2-R01	1,2,3-TRICHLOROPROPANE	1	U	UG/L	1	0.0015	RBC Tap	666.7
OW1-PZ2-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.00075	RBC Tap	1333.3
OW1-PZ2-R01	1,2-DICHLOROETHANE	1	U	UG/L	1	0.12	RBC Tap	8.3
OW1-PZ2-R01	1,2-DICHLOROPROPANE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-PZ2-R01	1,4-DICHLOROBENZENE	1	U	UG/L	1	0.47	RBC Tap	2.1
OW1-PZ2-R01	BENZO(A)PYRENE	0.11	U	UG/L	0.11	0.0092	RBC Tap	12.0
OW1-PZ2-R01	BENZO(B)FLUORANTHENE	0.42	U	UG/L	0.42	0.092	RBC Tap	4.6
OW1-PZ2-R01	BROMODICHLOROMETHANE	1	U	UG/L	1	0.17	RBC Tap	5.9
OW1-PZ2-R01	CARBON TETRACHLORIDE	1	U	UG/L	1	0.16	RBC Tap	6.3
OW1-PZ2-R01	CHLOROFORM	1	U	UG/L	1	0.15	RBC Tap	6.7
OW1-PZ2-R01	DIBENZ(A,H)ANTHRACENE	0.21	U	UG/L	0.21	0.0092	RBC Tap	22.8
OW1-PZ2-R01	DIBROMOCHLOROMETHANE	1	U	UG/L	1	0.13	RBC Tap	7.7
OW1-PZ2-R01	HEXACHLORO-1,3-BUTADIENE	1	U	UG/L	1	0.14	RBC Tap	7.1
OW1-PZ2-R01	INDENO(1,2,3-CD)PYRENE	0.42	U	UG/L	0.42	0.092	RBC Tap	4.6
OW1-PZ2-R01	VINYL CHLORIDE	1	U	UG/L	1	0.019	RBC Tap	52.6
OW01-MW02-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW01-MW03-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW01-MW04P-R01	1,1,2-TRICHLOROETHANE	10	U	UG/L	10	5	MCL	2.0
OW01-MW04P-R01	1,1-DICHLOROETHENE	10	U	UG/L	10	7	MCL	1.4

SAMPLE_ID	CHEM_NAME	ANA_VALUE	DV_QUAL	UNITS	DETECT_LIM	RegCritValue	Criteria	Exceedance Quotient
OW01-MW04P-R01	1,2-DIBROMOETHANE	10	U	UG/L	10	0.05	MCL	200.0
OW01-MW04P-R01	1,2-DICHLOROETHANE	10	U	UG/L	10	5	MCL	2.0
OW01-MW04P-R01	1,2-DICHLOROPROPANE	10	U	UG/L	10	5	MCL	2.0
OW01-MW04P-R01	BENZENE	10	U	UG/L	10	5	MCL	2.0
OW01-MW04P-R01	BENZO(A)PYRENE	11	U	UG/L	11	0.2	MCL	55.0
OW01-MW04P-R01	CARBON TETRACHLORIDE	10	U	UG/L	10	5	MCL	2.0
OW01-MW04P-R01	TETRACHLOROETHENE	10	U	UG/L	10	5	MCL	2.0
OW01-MW04P-R01	TRICHLOROETHENE	10	U	UG/L	10	5	MCL	2.0
OW01-MW04P-R01	VINYL CHLORIDE	10	U	UG/L	10	2	MCL	5.0
OW01-MW04-R01	1,1,2-TRICHLOROETHANE	5	UL	UG/L	5	5	MCL	1.0
OW01-MW04-R01	1,2-DIBROMOETHANE	5	UL	UG/L	5	0.05	MCL	100.0
OW01-MW04-R01	1,2-DICHLOROETHANE	5	UL	UG/L	5	5	MCL	1.0
OW01-MW04-R01	1,2-DICHLOROPROPANE	5	UL	UG/L	5	5	MCL	1.0
OW01-MW04-R01	BENZO(A)PYRENE	11	U	UG/L	11	0.2	MCL	55.0
OW01-MW04-R01	CARBON TETRACHLORIDE	5	UL	UG/L	5	5	MCL	1.0
OW01-MW04-R01	TETRACHLOROETHENE	5	UL	UG/L	5	5	MCL	1.0
OW01-MW04-R01	TRICHLOROETHENE	5	UL	UG/L	5	5	MCL	1.0
OW01-MW04-R01	VINYL CHLORIDE	5	UL	UG/L	5	2	MCL	2.5
OW01-MW05-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW01-MW05-R01	BENZO(A)PYRENE	2.1	U	UG/L	2.1	0.2	MCL	10.5
OW01-PZ03-R01	1,1,2-TRICHLOROETHANE	10	U	UG/L	10	5	MCL	2.0
OW01-PZ03-R01	1,1-DICHLOROETHENE	10	U	UG/L	10	7	MCL	1.4
OW01-PZ03-R01	1,2-DIBROMOETHANE	10	U	UG/L	10	0.05	MCL	200.0
OW01-PZ03-R01	1,2-DICHLOROETHANE	10	U	UG/L	10	5	MCL	2.0
OW01-PZ03-R01	1,2-DICHLOROPROPANE	10	U	UG/L	10	5	MCL	2.0
OW01-PZ03-R01	BENZO(A)PYRENE	1.1	U	UG/L	1.1	0.2	MCL	5.5
OW01-PZ03-R01	CARBON TETRACHLORIDE	10	U	UG/L	10	5	MCL	2.0
OW01-PZ03-R01	TETRACHLOROETHENE	10	U	UG/L	10	5	MCL	2.0
OW01-PZ03-R01	TRICHLOROETHENE	10	U	UG/L	10	5	MCL	2.0
OW01-PZ03-R01	VINYL CHLORIDE	10	U	UG/L	10	2	MCL	5.0
OW01-PZ04-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW01-PZ04-R01	BENZO(A)PYRENE	0.53	U	UG/L	0.53	0.2	MCL	2.7
OW01-PZ05-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW1-MW10-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW1-MW6-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW1-MW7D-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW1-MW7-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW1-MW8D-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW1-MW8D-R01	BENZO(A)PYRENE	0.5	U	UG/L	0.5	0.2	MCL	2.5
OW1-MW8-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW1-PZ1-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW1-PZ2P-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0
OW1-PZ2-R01	1,2-DIBROMOETHANE	1	U	UG/L	1	0.05	MCL	20.0

Notes:

U = Non-detects at the detection limit

UL = Non-detected but biased low, the actual concentration is possibly higher