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LIMITED CLOSURE SUMMARY REPORT FOR FUEL DEPOT TANKS 99, 100 AND 101 NS MAYPORT FL

6/1/2000

ENVIRONMENTAL SCIENCE ASSOCIATES

LIMITED CLOSURE SUMMARY REPORT

Mayport Naval Station Fuel Depot
Tanks # 99, 100, 101
Mayport Naval Station, Duval County, Florida
Facility ID # 8626008

Prepared for:

Environmental Recovery, Inc.
251 Levy Road
Atlantic Beach, Florida 32233

Prepared by:

Environmental Science Associates, Inc.
35 Jefferson Avenue
Ponte Vedra, Florida 32802
CompQAP #970173

June 2000

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ATTACHMENT A - Laboratory Reports

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Department of Environmental Protection

TwTwin Towers Office Building ♦ 2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form 62-761.900(8)
Form Title: Limited Closure Summary Report
Effective Date: 7/13/98

Limited Closure Summary Report

This form is required for facilities that have sites with documented contamination requiring a site assessment in accordance with Chapter 62-770, F.A.C. This includes those facilities that are eligible for the Early Detection Incentive Program (EDI), the Florida Petroleum Liability and Restoration Insurance Program (FPLRIP), and the Petroleum Cleanup Participation Program (PCPP), pursuant to Sections 376.3071 and 376.3072, F.S. Documentation of procedures followed, and results obtained during closure shall be reported in this form, along with any attachments. This form shall be submitted to the County within 60 days of completion of the closure in accordance with Section A of the "Storage Tank System Closure Assessment Requirements."

Complete All Applicable Blanks. Please Print or Type

General Information

Date 4/25/00	FDEP Facility ID Number 8626008	County Duval
Facility Name US Navy – Mayport Naval Station	Facility Telephone #: ( )	
Facility Address:		
Owner or Operator Name: US Navy	Owner/Operator phone #: ( )	
Mailing Address:		

Storage Tank System Closure Information

1. Were the storage tanks(s): (Check one or both) Tanks #99, 100, 101 – Fuel Depot

• Aboveground	• Underground

2. General System Information

Types of Products Stored: Oily wastewater	Number of Tanks Closed 3	Age(s) of Tanks 45 years

3. Was the Limited Closure Summary Report Performed as a Result of: (check one or more)

• Tank Systems Removal? ✓	• Spill Containment Installation?	• Change in Storage to a Non-Regulated Substance?
• Tank Systems Closed in Place?	• Dispenser Liners Installation?	• Release Prevention Barrier Installation?
• Piping Sump Installation?	• Secondary Containment Installation?	• Other? (please explain)

4. Please Check Yes or No to the following:

a. Was there previously reported contamination discovered on site? If yes, was	• Yes	• No
1. A Discharge Report Form submitted to the County?	• Yes	• No
2. An investigation performed in accordance with Rule 62-761.820, F.A.C.?	• Yes	• No
b. Is the depth to groundwater less than 20 feet?	• Yes	• No
c. Are there monitoring wells on site? If yes, were they	• Yes	• No
1. Groundwater monitoring wells?	• Yes	• No
2. Vapor monitoring wells?	• Yes	• No
3. Used for closure assessment sampling?	• Yes	• No
4. Properly closed?	• Yes	• No
5. Retained for site assessment purposes?	• Yes	• No
d. If tanks were replaced, were contaminated soils returned to the tank excavation?	• Yes	• No

Signature of owner or operator	Signature of person performing Limited Closure Assessment	Name of person performing Limited Closure Assessment
(date)	(date) 4/25/00	Affiliation ESA

Printed on recycled paper.

LIMITED CLOSURE SUMMARY REPORT

Mayport Naval Station Fuel Depot
Tanks # 99, 100, 101
Mayport Naval Station, Duval County, Florida
Facility ID # 8626008

Summary of Field Activities

On May 24 and 25, 2000 Environmental Science Associates, Inc. (ESA) was contracted by Environmental Recovery, Inc. (ERI) of Atlantic Beach, Florida (PSSSC #PC-C050751) to perform limited closure assessment services following the removal of three Waste Oil Underground Storage Tanks (UST's) from the Fuel Depot facility (Facility ID #8626008) located on Mayport Naval Station in Duval County, Florida (refer to Figure 1., Site Location Map). The purpose of the limited closure summary was to evaluate current site conditions in the vicinity of the tanks. Subsurface soil and groundwater contamination has been documented at the site in the past, and remedial activities have been conducted.

The tanks, which were each approximately 210,000-gallons in capacity, were reported to have been installed in 1954, and had been used to store oily wastewater. The limited closure assessment was conducted following the UST removals, and was performed in accordance with the requirements of Chapter 62-761 F.A.C. and the Florida Department of Environmental Protection (FDEP) guidance document "Pollutant Storage Tank Closure Assessment Requirements"(April 1998) for sites with previously documented contamination. The methods and procedures used during the closure assessment were conducted in accordance with the FDEP "Quality Assurance Standard Operating Procedures for Petroleum Storage System Closure Assessments".

As part of the limited closure assessment, total of three groundwater samples were collected from three (3) pre-existing monitoring wells located on the north side of the tank farm. In addition, a total of three groundwater samples were collected from temporary wells installed on site in selected locations, and a total of three soil samples were collected from soil borings conducted on site for. Each of these samples were

Three (3) pre-existing monitor wells (# MW -15S, # MW-03S, and # MW-13S) were sampled on April 24, 2000, Prior to initiating groundwater sample collection activities, the depth to groundwater and total depth of each well was measured using an electronic water level indicator. The depth to groundwater was determined to be approximately 9 to 10 ft below the original surface grade. A total of five well volumes were purged from each well prior to groundwater sample collection. Well purging and groundwater sample collection of the permanently installed wells was conducted using Teflon bailers. The groundwater samples were placed in laboratory prepared sample containers, appropriately preserved, labeled, sealed in zip-lock type bags, placed on wet ice, and hand-delivered under chain-of-custody procedures to the designated laboratory for analysis. The results of the groundwater analysis is summarized in Table 1, and copies of the laboratory reports and chain of custody forms are provided in Attachment A. Copies of the well sampling field logs are

provided in Attachment B. The results of the laboratory analysis of the groundwater samples collected from the existing monitor wells (#MW-15S, MW-03S, and MW-13S) indicated the presence of petroleum contamination, with the concentrations of Naphthalene (140μg/L) and Total Petroleum Hydrocarbons (Fl-PRO, 15mg/L) in excess of the FDEP Groundwater Cleanup Target Levels, as specified by Chapter 62-775, F.A.C., Table I.

On May 25, 2000, confirmatory soil samples were collected, and temporary wells were installed and sampled in the vicinity of Tanks # 100 and 101.

A total of three (3) confirmatory soil samples were collected from soil borings conducted in proximity to the former tank locations, as follows:

- Confirmatory Soil Sample #CS-1 was collected from the south side of Tank #100. Based On the lack of apparent indications of the presence of soil contamination, the sample was collected at a depth of approximately 8.0 ft below the original surface grade, which was just above the level of groundwater saturation, and below the bottom of Tank 100.

- Confirmatory Soil Sample #CS-2 was collected from the south side of Tank #101. Based on the lack of apparent indications of soil contamination, the sample was collected at a depth of approximately 8.0 ft below the original surface grade, which was just above the level of groundwater saturation, and below the bottom of Tank 101.

- Confirmatory Soil Sample #CS-3 was collected from the midpoint between the location of Tank #100 and 101. Based on the lack of apparent indications of soil contamination, The sample was collected at a depth of approximately 8.0 below the original surface grade, which was just above the level of groundwater saturation, and below the bottom of Tanks #100 and 101.

Each of these samples were collected using a stainless steel hand auger and Encore® brand samplers. Sampling equipment was decontaminated between sampling locations to prevent the possibility of cross-contamination. The samples were placed into pre-cleaned, laboratory supplied sample containers, appropriately labeled, sealed in zip-lock type bags and placed on wet ice for transport, and hand-delivered to a FDEP-approved laboratory (ENCO Laboratories, Jacksonville) for analysis by the following methods:

EPA Method 8260	Volatile Organic Compounds
EPA Method 8270	Extractable Organic Compounds
Fla-PRO	Total Petroleum Hydrocarbons
RCRA Metals	As, Ba, Cd, Cr, Pb, Hg, Ag, Se

The results of the laboratory analysis of the soil samples were below laboratory detection limits for all chemicals of concern, with the exception of Arsenic, which was detected in soil samples #CS-1 and CS-2 at concentrations of 1.2 mg/Kg and 1.5 mg/Kg, respectively, as well as Chromium

and Lead, which were detected in soil sample #CS-1 at concentrations of 1.0 mg/Kg and 4.4 mg/Kg, respectively. The results of the soil analysis are summarized in Table 2, and soil sampling locations are illustrated in Figure 3.

Following confirmatory soil sample collection, each of the three (3) soil borings were advanced below the top of the water table and temporary monitor wells were installed and sampled. Each of the temporary wells (TMW-1, TMW-2 and TMW-3) were constructed of 2-inch PVC with 5 ft of 0.01.-inch slotted well screen, and was installed such that the well screen intercepted the top of the water table, which was encountered at a depth of approximately 9 ft below surface grade, and the annular space around the well screen was filled with clean 6/20 grade sand pack. Prior to sample collection, each temporary well was purged a total of five (5) standing volumes using a portable peristaltic pump. Groundwater samples were collected from each temporary well using a Teflon bailer. Sample containers, which had been provided by the designated laboratory, were appropriately labeled, preserved, sealed in zip-lock type bags, placed on wet ice, and hand-delivered, under standard chain of custody procedures, to an FDEP-approved environmental laboratory (ENCO Laboratories, Jacksonville) for analysis, as follows:

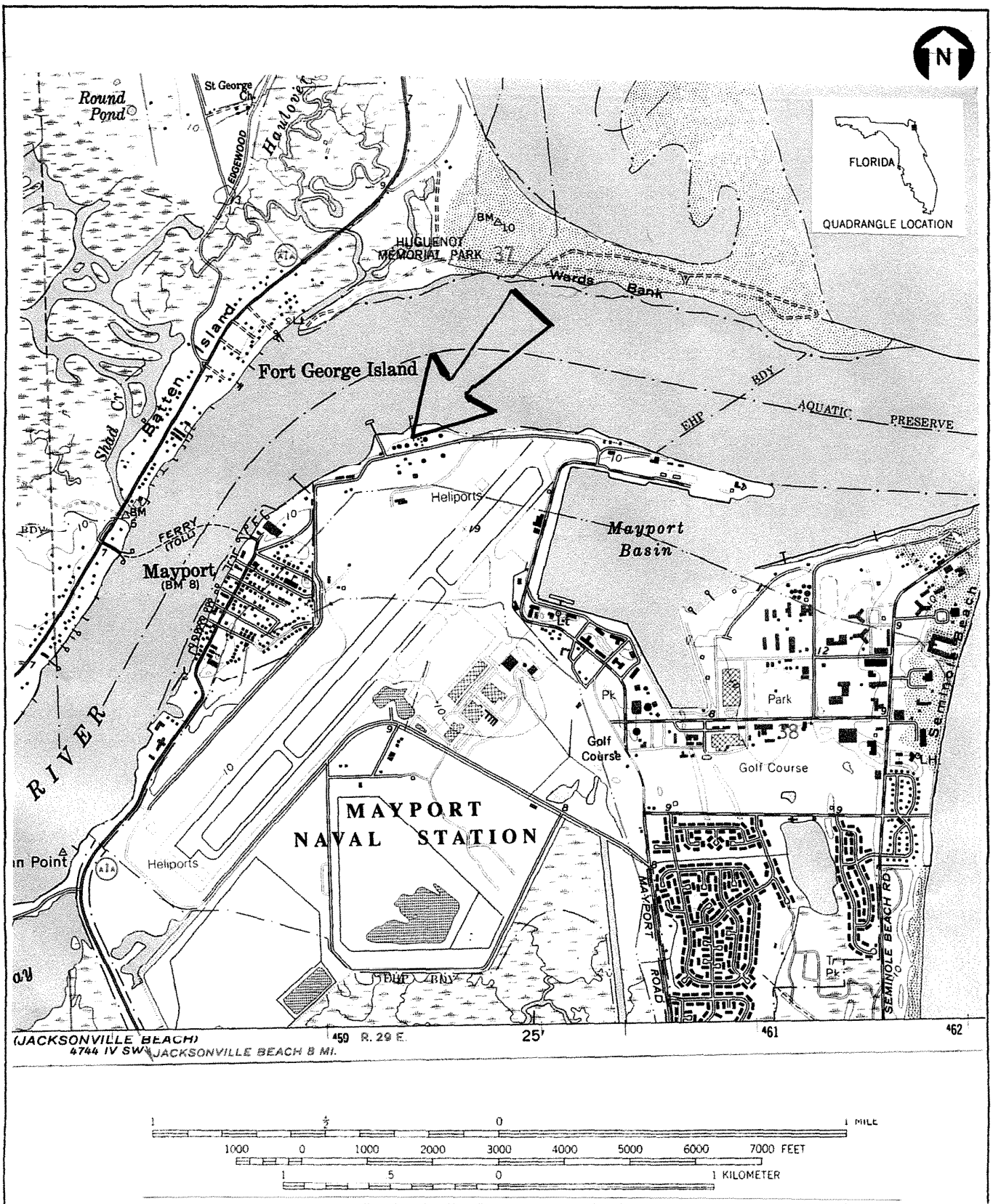
EPA Method 8260	Volatile Organic Compounds
EPA Method 8270	Extractable Organic Compounds
Fla-PRO	Total Petroleum Hydrocarbons
RCRA Metals	As, Ba, Cd, Cr, Pb, Hg, Ag, Se

The results of the laboratory analysis of the groundwater samples collected from temporary monitor wells # TMW-1, TMW-2, and TMW-3 are summarized in Table 3, and temporary well locations are illustrated in Figure 2. The results of the laboratory analysis of the groundwater samples collected from the temporary monitor wells indicated concentrations of petroleum hydrocarbons, including present in each of the wells, with the concentration of Naphthalene detected in TMW-2 (120μg/L) and the concentration of Lead detected in TMW-1 (0.074mg/L) in excess of the FDEP Groundwater Cleanup Target Levels, as specified by Chapter 62-775, F.A.C., Table I. Copies of the laboratory report of the groundwater analysis are provided in Attachment A, and the temporary well locations are illustrated in Figure 2.

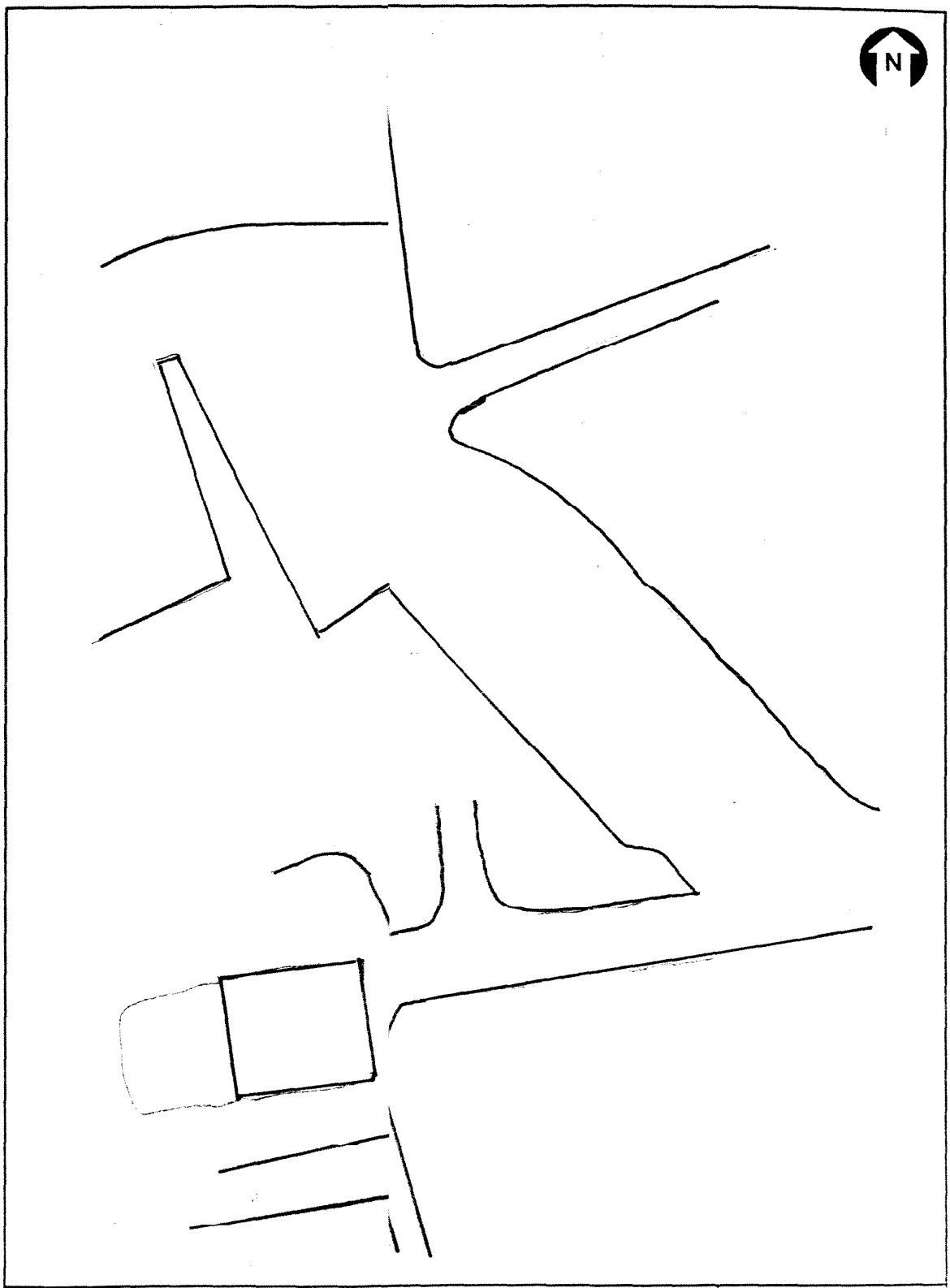
Copies of the laboratory reports of the soil and groundwater analysis are provided as Attachment A. Also included in the limited closure summary report is a site location map, a site sketch indicating soil and groundwater sampling locations relative to the former tank locations, as well as the results of the laboratory analysis in table form.

Respectfully Submitted,
Environmental Science Associates, Inc.

Richard Moriarty
Environmental Scientist



Environmental Science Associates, Inc.	**Site Location Map** **Limited Closure Summary, Tanks #99, 100, and 101** Mayport Naval Station Fuel Depot Mayport Naval Station, Duval County, Florida; Facility ID #8626008	FIGURE **1** PROJECT NO.



Environmenta
Science
Associates, In

	INITIAL	DATE
DRAWN BY:		
REVIEWED BY:		
PROJECT MANAGER:		

FIGURE
2

PROJECT NO.

Table 1.
Summary of Laboratory Analysis
Groundwater Sampling - Monitor Wells # MW-15S, MW-03S, and MW-13S
Mayport Naval Station Fuel Depot, Tanks # 99, 100, and 101
Mayport Naval Station, Duval County, Florida

Parameter	Monitor Well ID # MW-15S	MW-03S	MW-13S	Groundwater Cleanup Target Levels*
Volatile Organic Compounds:				
(EPA Method 8260)				
Isopropylbenzene	2.6μg/L	BDL	BDL	N/A
1,2,3-Trichlorobenzene	1.8μg/L	BDL	BDL	70μg/L
N-Propylbenzene	3.3μg/L	BDL	BDL	N/A
Tert-Butylbenzene	2.7μg/L	BDL	BDL	N/A
S-Butylbenzene	5.6μg/L	BDL	BDL	N/A
P-Isopropylyoluene	3.7μg/L	BDL	BDL	N/A
N-Butylbenzene	6.8μg/L	BDL	BDL	N/A
Naphthalene	**140μg/L**	9.2μg/L	4.8μg/L	**20μg/L**
All other 8260 Compounds	BDL	BDL	BDL	N/A
Semi-Volatile Organic Compounds:				
(EPA Method 8270)				
Bis(2-ethylhexylphthalate	14μg/L	BDL	BDL	N/A
Flourene	17μg/L	BDL	BDL	280μg/L
1-Methylnaphthalene	100μg/L	BDL	BDL	20μg/L
2-Methylnaphthalene	90μg/L	BDL	BDL	20μg/L
Naphthalene	48μg/L	BDL	4.8μg/L	20μg/L
Phenanthrene	22μg/L	BDL	BDL	210μg/L
All other 8270 Compounds	BDL	BDL	BDL	N/A
FLA PRO:	**15mg/L**	BDL	BDL	**5mg/L**
Total RCRA Metals:				
Arsenic	BDL	0.012mg/L	0.011mg/L	50μg/L
Barium	BDL	BDL	BDL	2000μg/L
Cadmium	BDL	BDL	0.002mg/L	5μg/L
Chromium	BDL	BDL	0.031mg/L	100μg/L
Lead	BDL	BDL	0.009mg/L	15μg/L
Mercury	0.00022mg/L	BDL	BDL	2μg/L
Silver	BDL	BDL	BDL	50μg/L
Selenium	BDL	BDL	BDL	50μg/L

BDL = Below Detection Limits; N/A = Not Applicable
*Groundwater Cleanup Target Levels as per 62-775 F.A.C., Table I, Groundwater Cleanup Target Levels

Table 2.
Summary of Laboratory Analysis
Confirmatory Soil Sampling
Mayport Naval Station Fuel Depot, Tanks # 99, 100, and 101
Mayport Naval Station, Duval County, Florida

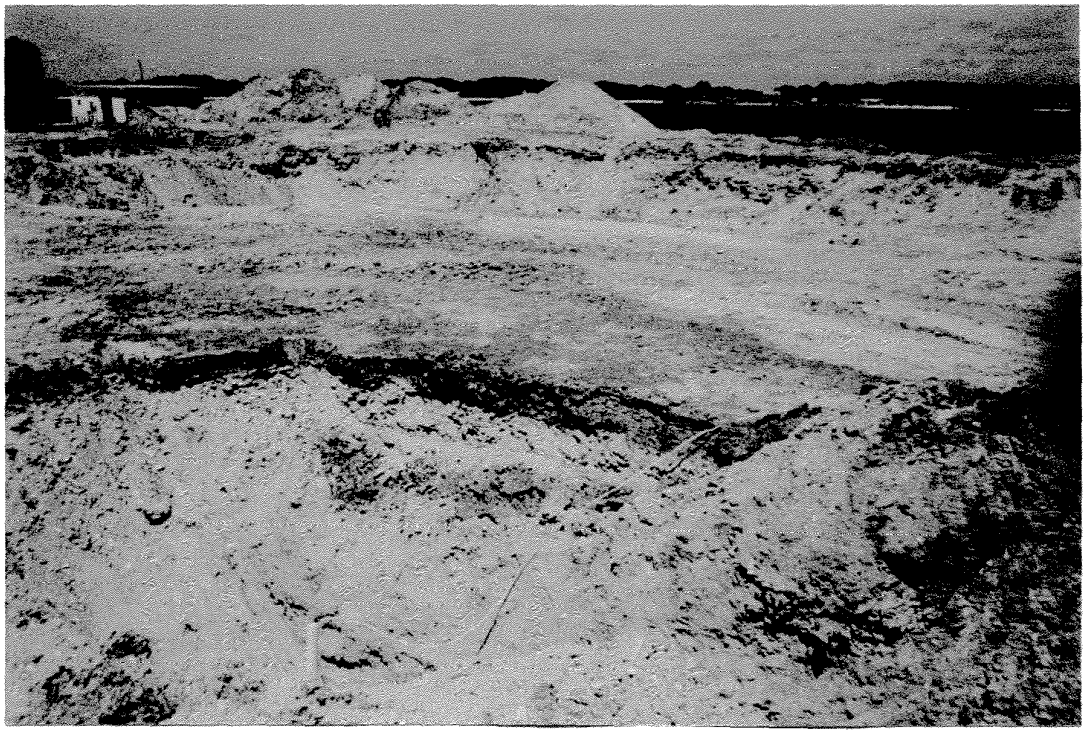
Parameter	Confirmatory Soil Sample ID CS-1	CS-2	CS-3	FDEP Soil Cleanup Target Levels*	
Volatile Organic Compounds:					
(EPA Method 8260)					
All 8260 Compounds	BDL	BDL	BDL	N/A	
Semi-Volatile Organic Compounds:					
(EPA Method 8270)					
All 8270 Compounds	BDL	BDL	BDL	N/A	
FLA PRO:	BDL	BDL	BDL	340mg/Kg	340mg/Kg
Total RCRA Metals:					
Arsenic	1.0mg/Kg	1.5mg/Kg	BDL	3.7mg/Kg	29mg/Kg
Barium	BDL	BDL	BDL	87000mg/Kg	TCLP
Cadmium	BDL	BDL	BDL	1300mg/Kg	8mg/Kg
Chromium	1.0mg/Kg	BDL	BDL	420mg/Kg	38mg/Kg
Lead	4.0mg/Kg	BDL	BDL	920mg/Kg	TCLP
Mercury	BDL	BDL	BDL	28mg/Kg	TCLP
Silver	BDL	BDL	BDL	9100mg/Kg	TCLP
Selenium	BDL	BDL	BDL	10000mg/Kg	TCLP

BDL = Below Detection Limits; N/A = Not Applicable
*Soil Cleanup Target Levels as per 62-775 F.A.C., Table II, Direct Exposure, Industrial Use Assumption/Leachability

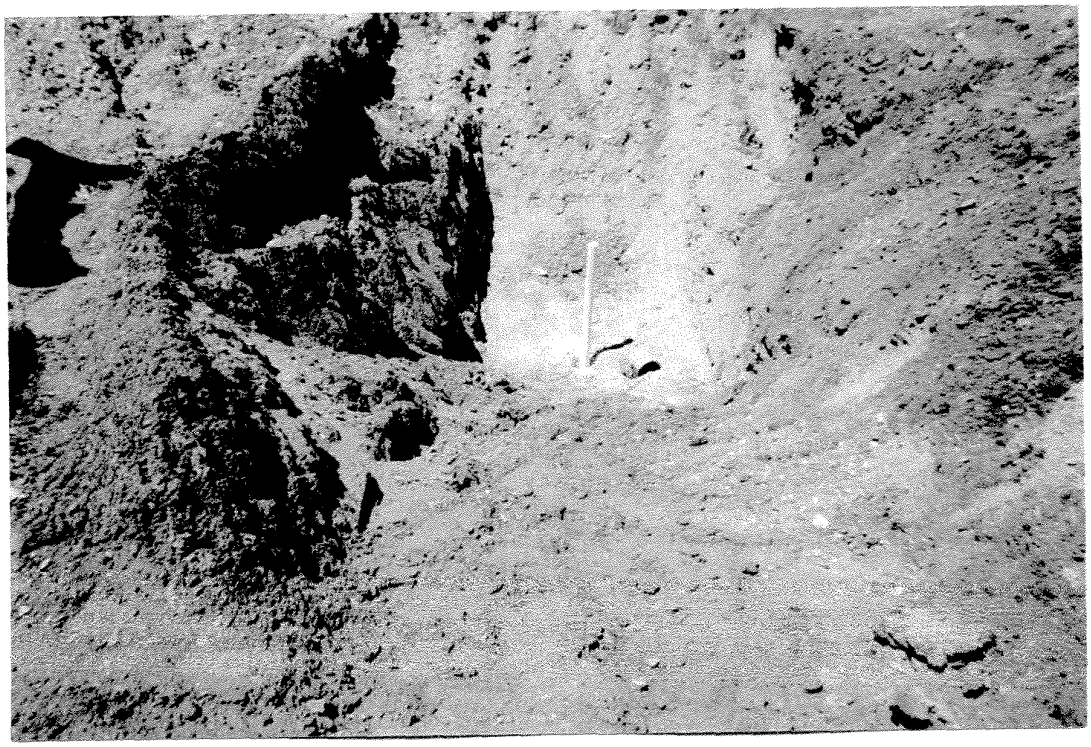
Table 3.
Summary of Laboratory Analysis
Groundwater Sampling - Temporary Monitor Wells #TMW-1, TMW-2, and TMW-3
Mayport Naval Station Fuel Depot, Tanks # 99, 100, and 101
Mayport Naval Station, Duval County, Florida

Parameter	Monitor Well ID #			Groundwater Cleanup Target Levels*
	TMW-1	TMW-2	TMW-3	
Volatile Organic Compounds:				
(EPA Method 8260)				
Isopropylbenzene	22μg/L	13μg/L	BDL	N/A
MTBE	BDL	28μg/L	BDL	70μg/L
N-Propylbenzene	44μg/L	25μg/L	BDL	N/A
Tert-Butylbenzene	BDL	2.6μg/L	BDL	N/A
S-Butylbenzene	BDL	15μg/L	BDL	N/A
P-Isopropylyoluene	BDL	BDL	BDL	N/A
N-Butylbenzene	BDL	10μg/L	BDL	N/A
Naphthalene	BDL	**120μg/L**	8.5μg/L	**20μg/L**
All other 8260 Compounds	BDL	BDL	BDL	N/A
Semi-Volatile Organic Compounds:				
(EPA Method 8270)				
1-Methylnaphthalene	BDL	46μg/L	BDL	20μg/L
2-Methylnaphthalene	BDL	45μg/L	BDL	20μg/L
Naphthalene	BDL	42μg/L	BDL	20μg/L
All other 8270 Compounds	BDL	BDL	BDL	N/A
FLA PRO:	BDL	BDL	BDL	**5mg/L**
Total RCRA Metals:				
Arsenic	BDL	BDL	BDL	50μg/L
Barium	BDL	BDL	BDL	2000μg/L
Cadmium	BDL	BDL	0.001mg/L	5μg/L
Chromium	BDL	BDL	BDL	100μg/L
Lead	**0.074mg/L**	BDL	BDL	**15μg/L**
Mercury	BDL	BDL	BDL	2μg/L
Silver	BDL	BDL	BDL	50μg/L
Selenium	BDL	BDL	BDL	50μg/L

BDL = Below Detection Limits; N/A= Not Applicable
*Groundwater Cleanup Target Levels as per 62-775 F.A.C., Table I, Groundwater Cleanup Target Levels



1. Photograph facing generally northwest, overlooking former tank locations.



2. Photograph overlooking typical Temporary Monitor Well (TMW-3)

Photodocumentation: Limited Closure Summary, May 25, 2000
Tanks 99, 100, and 101, Mayport Naval Station Fuel Farm
Mayport Naval Station, Duval County, Florida; Facility ID # 8626008

ATTACHMENT A

Laboratory Reports

Environmental Conservation Laboratories, Inc.
4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
904 / 296-3007
Fax 904 / 296-6210
www.encolabs.com

ENCO Laboratories

DHRS Certification No. E82277

CLIENT : Environmental Recovery
ADDRESS: 251 Levy Road
Atlantic Beach, FL 32233

REPORT # : JAX10968
DATE SUBMITTED: April 25, 2000
DATE REPORTED : May 3, 2000

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT : 2007

Mayport Naval Station

#1 - MW-15S @ 13:45 (04/24/00)
#2 - MW-03S @ 14:15 (04/24/00)
#3 - MW-13S @ 14:45 (04/24/00)
#4 - TMW-1 @ 11:40 (04/25/00)
#5 - TMW-2 @ 12:20 (04/25/00)
#6 - TMW-3 @ 12:45 (04/25/00)
#7 - CS-1 @ 09:15 (04/25/00)
#8 - CS-2 @ 10:00 (04/25/00)
#9 - CS-3 @ 10:30 (04/25/00)

PROJECT MANAGER Scott D. Martin
Scott D. Martin

ENCO LABORATORIES
REPORT # : JAX10968
DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	MW-15S	MW-03S	Units
Dichlorodifluoromethane	2.0 U	2.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	2.0 U	2.0 U	µg/L
Chloroethane	2.0 U	2.0 U	µg/L
Trichlorofluoromethane	1.0 U	1.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Acetone	50 U	50 U	µg/L
Carbon Disulfide	50 U	50 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Methyl tert-butyl ether	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
2,2-Dichloropropane	2.0 U	2.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
2-Butanone	20 U	20 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon tetrachloride	1.0 U	1.0 U	µg/L
1,1-Dichloropropene	1.0 U	1.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Dibromomethane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	MW-15S	MW-03S	Units
2-Chloroethyl vinyl ether	6.0 U	6.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
4-Methyl-2-pentanone	20 U	20 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	3.0 U	3.0 U	µg/L
1,3-Dichloropropane	1.0 U	1.0 U	µg/L
2-Hexanone	20 U	20 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
1,2-Dibromoethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
Styrene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
Isopropylbenzene	**2.6** I	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Bromobenzene	1.0 U	1.0 U	µg/L
1,2,3-Trichlorobenzene	**1.8**	1.0 U	µg/L
n-Propylbenzene	**3.3**	1.0 U	µg/L
2-Chlorotoluene	1.0 U	1.0 U	µg/L
1,3,5-Trimethylbenzene	1.0 U	1.0 U	µg/L
4-Chlorotoluene	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	MW-15S	MW-03S	Units
tert-Butylbenzene	**2.7**	1.0 U	µg/L
1,2,4-Trimethylbenzene	1.0 U	1.0 U	µg/L
s-Butylbenzene	**5.6**	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
p-Isopropyltoluene	**3.7**	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
n-Butylbenzene	**6.8**	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	1.0 U	µg/L
1,2,4-Trichlorobenzene	1.0 U	1.0 U	µg/L
Hexachlorobutadiene	1.0 U	1.0 U	µg/L
Naphthalene	**140**	**9.2**	µg/L
1,2,3-Trichloropropane	1.0 U	1.0 U	µg/L
Bromochloromethane	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	93	88	38-143
D8-Toluene	92	100	78-126
Bromofluorobenzene	98	104	72-132
Date Analyzed	05/01/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX10968
DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

EPA METHOD 8270 - SEMIVOLATILE ORGANICS	MW-15S	MW-03S	Units
Acenaphthene	10 U	10 U	µg/L
Acenaphthylene	10 U	10 U	µg/L
Anthracene	10 U	10 U	µg/L
Benzidine	10 U	10 U	µg/L
Benzo(a)anthracene	10 U	10 U	µg/L
Benzo(b)fluoranthene	10 U	10 U	µg/L
Benzo(k)fluoranthene	10 U	10 U	µg/L
Benzo(g,h,i)perylene	10 U	10 U	µg/L
Benzo(a)pyrene	10 U	10 U	µg/L
Benzylbutyl phthalate	10 U	10 U	µg/L
Bis(2-chloroethoxy)methane	10 U	10 U	µg/L
Bis(2-chloroethyl)ether	10 U	10 U	µg/L
Bis(2-chloroisopropyl)ether	10 U	10 U	µg/L
Bis(2-ethylhexyl)phthalate	**14**	10 U	µg/L
4-Bromophenylphenyl ether	10 U	10 U	µg/L
2-Chloronaphthalene	10 U	10 U	µg/L
4-Chlorophenyl phenyl ether	10 U	10 U	µg/L
Chrysene	10 U	10 U	µg/L
Dibenzo(a,h)anthracene	10 U	10 U	µg/L
1,2-Dichlorobenzene	10 U	10 U	µg/L
1,3-Dichlorobenzene	10 U	10 U	µg/L
1,4-Dichlorobenzene	10 U	10 U	µg/L
3,3'-Dichlorobenzidine	20 U	20 U	µg/L
Diethyl phthalate	10 U	10 U	µg/L
Dimethyl phthalate	10 U	10 U	µg/L
Di-n-butyl phthalate	10 U	10 U	µg/L
Di-n-octyl phthalate	10 U	10 U	µg/L
2,4-Dinitrotoluene	10 U	10 U	µg/L
2,6-Dinitrotoluene	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

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EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	MW-15S	MW-03S	Units
Fluoranthene	10 U	10 U	µg/L
Fluorene	17	10 U	µg/L
Hexachlorobenzene	10 U	10 U	µg/L
Hexachlorobutadiene	10 U	10 U	µg/L
Hexachlorocyclopentadiene	10 U	10 U	µg/L
Hexachloroethane	10 U	10 U	µg/L
Indeno(1,2,3-cd)pyrene	10 U	10 U	µg/L
Isophorone	10 U	10 U	µg/L
1-Methylnaphthalene	100	10 U	µg/L
2-Methylnaphthalene	90	10 U	µg/L
Naphthalene	48	10 U	µg/L
Nitrobenzene	10 U	10 U	µg/L
N-Nitrosodimethylamine	10 U	10 U	µg/L
N-Nitrosodi-n-propylamine	10 U	10 U	µg/L
N-Nitrosodiphenylamine	10 U	10 U	µg/L
Phenanthrene	22	10 U	µg/L
Pyrene	10 U	10 U	µg/L
1,2,4-Trichlorobenzene	10 U	10 U	µg/L
Benzyl Alcohol	10 U	10 U	µg/L
Benzoic Acid	10 U	10 U	µg/L
4-Chloroaniline	10 U	10 U	µg/L
2-Nitroaniline	10 U	10 U	µg/L
3-Nitroaniline	10 U	10 U	µg/L
4-Nitroaniline	10 U	10 U	µg/L
Dibenzofuran	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	MW-15S	MW-03S	Units
Pyridine	10 U	10 U	µg/L
4-Chloro-3-methylphenol	10 U	10 U	µg/L
2-Chlorophenol	10 U	10 U	µg/L
2,4-Dichlorophenol	10 U	10 U	µg/L
2,4-Dimethylphenol	10 U	10 U	µg/L
2,4-Dinitrophenol	50 U	50 U	µg/L
2-Methyl-4,6-dinitrophenol	30 U	30 U	µg/L
2-Nitrophenol	10 U	10 U	µg/L
4-Nitrophenol	10 U	10 U	µg/L
Pentachlorophenol	10 U	10 U	µg/L
Phenol	10 U	10 U	µg/L
2,4,6-Trichlorophenol	10 U	10 U	µg/L
2-Methylphenol	10 U	10 U	µg/L
3 & 4-Methylphenol	10 U	10 U	µg/L
2,4,5-Trichlorophenol	10 U	10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	71	56	30-106
2-Fluorobiphenyl	90	75	38-107
Terphenyl -D14	117	126	29-131
Phenol -D5	47	41	12-87
2-Fluorophenol	50	51	19-115
2,4,6-Tribromophenol	#132	118	35-126
Date Extracted	04/28/00	04/28/00	
Date Analyzed	04/28/00	04/28/00	

# = Surrogate recovery was outside of laboratory established limits.
U = Compound was analyzed for but not detected to the level shown.

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TOTAL METALS	METHOD	MW-15S	MW-03S	Units
Arsenic	200.7	0.010 U	**0.012** I	mg/L
Date Analyzed		04/26/00	04/26/00	
Barium	200.7	0.10 U	0.10 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Cadmium	200.7	0.0010 U	0.0010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Chromium	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Mercury	245.1	**0.00022** I	0.00020 U	mg/L
Date Analyzed		04/27/00	04/27/00	
Selenium	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Silver	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	MW-15S	MW-03S	Units
Hydrocarbons (C8-C40)	**15** D1	0.20 U	mg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
o-Terphenyl	93	67	65-140
Date Extracted	05/01/00	05/01/00	
Date Analyzed	05/02/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).
D1 = Analyte value determined from a 1:5 dilution.

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RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	MW-13S	TMW-1		Units
Dichlorodifluoromethane	2.0 U	10 U	D1	µg/L
Chloromethane	1.0 U	5.0 U	D1	µg/L
Vinyl Chloride	1.0 U	5.0 U	D1	µg/L
Bromomethane	2.0 U	10 U	D1	µg/L
Chloroethane	2.0 U	10 U	D1	µg/L
Trichlorofluoromethane	1.0 U	5.0 U	D1	µg/L
1,1-Dichloroethene	1.0 U	5.0 U	D1	µg/L
Acetone	50 U	250 U	D1	µg/L
Carbon Disulfide	50 U	250 U	D1	µg/L
Methylene Chloride	5.0 U	25 U	D1	µg/L
t-1,2-Dichloroethene	1.0 U	5.0 U	D1	µg/L
Methyl tert-butyl ether	1.0 U	5.0 U	D1	µg/L
1,1-Dichloroethane	1.0 U	5.0 U	D1	µg/L
2,2-Dichloropropane	2.0 U	10 U	D1	µg/L
c-1,2-Dichloroethene	1.0 U	5.0 U	D1	µg/L
2-Butanone	20 U	100 U	D1	µg/L
Chloroform	1.0 U	5.0 U	D1	µg/L
1,1,1-Trichloroethane	1.0 U	5.0 U	D1	µg/L
Carbon tetrachloride	1.0 U	5.0 U	D1	µg/L
1,1-Dichloropropene	1.0 U	5.0 U	D1	µg/L
Benzene	1.0 U	5.0 U	D1	µg/L
1,2-Dichloroethane	1.0 U	5.0 U	D1	µg/L
Trichloroethene	1.0 U	5.0 U	D1	µg/L
1,2-Dichloropropane	1.0 U	5.0 U	D1	µg/L
Dibromomethane	1.0 U	5.0 U	D1	µg/L
Bromodichloromethane	1.0 U	5.0 U	D1	µg/L

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.

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EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	MW-13S	TMW-1		Units
2-Chloroethyl vinyl ether	6.0 U	30 U	D1	µg/L
c-1,3-Dichloropropene	1.0 U	5.0 U	D1	µg/L
4-Methyl-2-pentanone	20 U	100 U	D1	µg/L
Toluene	1.0 U	5.0 U	D1	µg/L
t-1,3-Dichloropropene	1.0 U	5.0 U	D1	µg/L
1,1,2-Trichloroethane	1.0 U	5.0 U	D1	µg/L
Tetrachloroethene	3.0 U	15 U	D1	µg/L
1,3-Dichloropropane	1.0 U	5.0 U	D1	µg/L
2-Hexanone	20 U	100 U	D1	µg/L
Dibromochloromethane	1.0 U	5.0 U	D1	µg/L
1,2-Dibromoethane	1.0 U	5.0 U	D1	µg/L
Chlorobenzene	1.0 U	5.0 U	D1	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	5.0 U	D1	µg/L
Ethylbenzene	1.0 U	5.0 U	D1	µg/L
m-Xylene & p-Xylene	2.0 U	10 U	D1	µg/L
o-Xylene	1.0 U	5.0 U	D1	µg/L
Styrene	1.0 U	5.0 U	D1	µg/L
Bromoform	1.0 U	5.0 U	D1	µg/L
Isopropylbenzene	1.0 U	**22**	D1	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	5.0 U	D1	µg/L
Bromobenzene	1.0 U	5.0 U	D1	µg/L
1,2,3-Trichlorobenzene	1.0 U	5.0 U	D1	µg/L
n-Propylbenzene	1.0 U	**44**	D1	µg/L
2-Chlorotoluene	1.0 U	5.0 U	D1	µg/L
1,3,5-Trimethylbenzene	1.0 U	5.0 U	D1	µg/L
4-Chlorotoluene	1.0 U	5.0 U	D1	µg/L

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	MW-13S	TMW-1		Units
tert-Butylbenzene	1.0 U	5.0 U	D1	µg/L
1,2,4-Trimethylbenzene	1.0 U	5.0 U	D1	µg/L
s-Butylbenzene	1.0 U	5.0 U	D1	µg/L
1,3-Dichlorobenzene	1.0 U	5.0 U	D1	µg/L
p-Isopropyltoluene	1.0 U	5.0 U	D1	µg/L
1,4-Dichlorobenzene	1.0 U	5.0 U	D1	µg/L
n-Butylbenzene	1.0 U	5.0 U	D1	µg/L
1,2-Dichlorobenzene	1.0 U	5.0 U	D1	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	5.0 U	D1	µg/L
1,2,4-Trichlorobenzene	1.0 U	5.0 U	D1	µg/L
Hexachlorobutadiene	1.0 U	5.0 U	D1	µg/L
Naphthalene	**4.8**	10 U	D1	µg/L
1,2,3-Trichloropropane	1.0 U	5.0 U	D1	µg/L
Bromochloromethane	1.0 U	5.0 U	D1	µg/L

Surrogate:	% RECOV	% RECOV	LIMITS
Dibromofluoromethane	94	92	38-143
D8-Toluene	106	94	78-126
Bromofluorobenzene	103	94	72-132
Date Analyzed	05/01/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:5 dilution.

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EPA METHOD 8270 - SEMIVOLATILE ORGANICS	MW-13S	TMW-1	Units
Acenaphthene	10 U	10 U	µg/L
Acenaphthylene	10 U	10 U	µg/L
Anthracene	10 U	10 U	µg/L
Benzidine	10 U	10 U	µg/L
Benzo(a)anthracene	10 U	10 U	µg/L
Benzo(b)fluoranthene	10 U	10 U	µg/L
Benzo(k)fluoranthene	10 U	10 U	µg/L
Benzo(g,h,i)perylene	10 U	10 U	µg/L
Benzo(a)pyrene	10 U	10 U	µg/L
Benzylbutyl phthalate	10 U	10 U	µg/L
Bis(2-chloroethoxy)methane	10 U	10 U	µg/L
Bis(2-chloroethyl)ether	10 U	10 U	µg/L
Bis(2-chloroisopropyl)ether	10 U	10 U	µg/L
Bis(2-ethylhexyl)phthalate	10 U	10 U	µg/L
4-Bromophenylphenyl ether	10 U	10 U	µg/L
2-Chloronaphthalene	10 U	10 U	µg/L
4-Chlorophenyl phenyl ether	10 U	10 U	µg/L
Chrysene	10 U	10 U	µg/L
Dibenzo(a,h)anthracene	10 U	10 U	µg/L
1,2-Dichlorobenzene	10 U	10 U	µg/L
1,3-Dichlorobenzene	10 U	10 U	µg/L
1,4-Dichlorobenzene	10 U	10 U	µg/L
3,3'-Dichlorobenzidine	20 U	20 U	µg/L
Diethyl phthalate	10 U	10 U	µg/L
Dimethyl phthalate	10 U	10 U	µg/L
Di-n-butyl phthalate	10 U	10 U	µg/L
Di-n-octyl phthalate	10 U	10 U	µg/L
2,4-Dinitrotoluene	10 U	10 U	µg/L
2,6-Dinitrotoluene	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	MW-13S	TMW-1	Units
Fluoranthene	10 U	10 U	µg/L
Fluorene	10 U	10 U	µg/L
Hexachlorobenzene	10 U	10 U	µg/L
Hexachlorobutadiene	10 U	10 U	µg/L
Hexachlorocyclopentadiene	10 U	10 U	µg/L
Hexachloroethane	10 U	10 U	µg/L
Indeno(1,2,3-cd)pyrene	10 U	10 U	µg/L
Isophorone	10 U	10 U	µg/L
1-Methylnaphthalene	10 U	10 U	µg/L
2-Methylnaphthalene	10 U	10 U	µg/L
Naphthalene	10 U	10 U	µg/L
Nitrobenzene	10 U	10 U	µg/L
N-Nitrosodimethylamine	10 U	10 U	µg/L
N-Nitrosodi-n-propylamine	10 U	10 U	µg/L
N-Nitrosodiphenylamine	10 U	10 U	µg/L
Phenanthrene	10 U	10 U	µg/L
Pyrene	10 U	10 U	µg/L
1,2,4-Trichlorobenzene	10 U	10 U	µg/L
Benzyl Alcohol	10 U	10 U	µg/L
Benzoic Acid	10 U	10 U	µg/L
4-Chloroaniline	10 U	10 U	µg/L
2-Nitroaniline	10 U	10 U	µg/L
3-Nitroaniline	10 U	10 U	µg/L
4-Nitroaniline	10 U	10 U	µg/L
Dibenzofuran	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	MW-13S	TMW-1	Units
Pyridine	10 U	10 U	µg/L
4-Chloro-3-methylphenol	10 U	10 U	µg/L
2-Chlorophenol	10 U	10 U	µg/L
2,4-Dichlorophenol	10 U	10 U	µg/L
2,4-Dimethylphenol	10 U	10 U	µg/L
2,4-Dinitrophenol	50 U	50 U	µg/L
2-Methyl-4,6-dinitrophenol	30 U	30 U	µg/L
2-Nitrophenol	10 U	10 U	µg/L
4-Nitrophenol	10 U	10 U	µg/L
Pentachlorophenol	10 U	10 U	µg/L
Phenol	10 U	10 U	µg/L
2,4,6-Trichlorophenol	10 U	10 U	µg/L
2-Methylphenol	10 U	10 U	µg/L
3 & 4-Methylphenol	10 U	10 U	µg/L
2,4,5-Trichlorophenol	10 U	10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	47	49	30-106
2-Fluorobiphenyl	60	62	38-107
Terphenyl -D14	97	100	29-131
Phenol -D5	36	38	12-87
2-Fluorophenol	45	47	19-115
2,4,6-Tribromophenol	78	86	35-126
Date Extracted	04/28/00	04/28/00	
Date Analyzed	04/28/00	04/28/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

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TOTAL METALS	METHOD	MW-13S	TMW-1	Units
Arsenic	200.7	**0.011** I	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Barium	200.7	0.10 U	0.10 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Cadmium	200.7	**0.0020** I	0.0010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Chromium	200.7	**0.031**	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Lead	200.7	**0.0090** I	**0.074**	mg/L
Date Analyzed		04/26/00	04/26/00	
Mercury	245.1	0.00020 U	0.00020 U	mg/L
Date Analyzed		04/27/00	04/27/00	
Selenium	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Silver	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	MW-13S	TMW-1	Units
Hydrocarbons (C8-C40)	0.20 U	0.20 U	mg/L
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	70	83	65-140
Date Extracted	05/01/00	05/01/00	
Date Analyzed	05/01/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

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EPA METHOD 8260 - VOLATILE ORGANICS	TMW-2	TMW-3	Units
Dichlorodifluoromethane	2.0 U	2.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	2.0 U	2.0 U	µg/L
Chloroethane	2.0 U	2.0 U	µg/L
Trichlorofluoromethane	1.0 U	1.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Acetone	50 U	50 U	µg/L
Carbon Disulfide	50 U	50 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Methyl tert-butyl ether	28	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
2,2-Dichloropropane	2.0 U	2.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
2-Butanone	20 U	20 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon tetrachloride	1.0 U	1.0 U	µg/L
1,1-Dichloropropene	1.0 U	1.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Dibromomethane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	TMW-2	TMW-3	Units
2-Chloroethyl vinyl ether	6.0 U	6.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
4-Methyl-2-pentanone	20 U	20 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	3.0 U	3.0 U	µg/L
1,3-Dichloropropane	1.0 U	1.0 U	µg/L
2-Hexanone	20 U	20 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
1,2-Dibromoethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
Styrene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
Isopropylbenzene	**13**	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Bromobenzene	1.0 U	1.0 U	µg/L
1,2,3-Trichlorobenzene	1.0 U	1.0 U	µg/L
n-Propylbenzene	**25**	1.0 U	µg/L
2-Chlorotoluene	1.0 U	1.0 U	µg/L
1,3,5-Trimethylbenzene	1.0 U	1.0 U	µg/L
4-Chlorotoluene	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	TMW-2	TMW-3	Units
tert-Butylbenzene	**2.6**	1.0 U	µg/L
1,2,4-Trimethylbenzene	1.0 U	1.0 U	µg/L
s-Butylbenzene	**15**	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
p-Isopropyltoluene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
n-Butylbenzene	**10**	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	1.0 U	µg/L
1,2,4-Trichlorobenzene	1.0 U	1.0 U	µg/L
Hexachlorobutadiene	1.0 U	1.0 U	µg/L
Naphthalene	**120**	**8.5**	µg/L
1,2,3-Trichloropropane	1.0 U	1.0 U	µg/L
Bromochloromethane	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	94	88	38-143
D8-Toluene	104	99	78-126
Bromofluorobenzene	102	92	72-132
Date Analyzed	05/01/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 - SEMIVOLATILE ORGANICS	TMW-2	TMW-3	Units
Acenaphthene	10 U	10 U	µg/L
Acenaphthylene	10 U	10 U	µg/L
Anthracene	10 U	10 U	µg/L
Benzidine	10 U	10 U	µg/L
Benzo(a)anthracene	10 U	10 U	µg/L
Benzo(b)fluoranthene	10 U	10 U	µg/L
Benzo(k)fluoranthene	10 U	10 U	µg/L
Benzo(g,h,i)perylene	10 U	10 U	µg/L
Benzo(a)pyrene	10 U	10 U	µg/L
Benzylbutyl phthalate	10 U	10 U	µg/L
Bis(2-chloroethoxy)methane	10 U	10 U	µg/L
Bis(2-chloroethyl)ether	10 U	10 U	µg/L
Bis(2-chloroisopropyl)ether	10 U	10 U	µg/L
Bis(2-ethylhexyl)phthalate	10 U	10 U	µg/L
4-Bromophenylphenyl ether	10 U	10 U	µg/L
2-Chloronaphthalene	10 U	10 U	µg/L
4-Chlorophenyl phenyl ether	10 U	10 U	µg/L
Chrysene	10 U	10 U	µg/L
Dibenzo(a,h)anthracene	10 U	10 U	µg/L
1,2-Dichlorobenzene	10 U	10 U	µg/L
1,3-Dichlorobenzene	10 U	10 U	µg/L
1,4-Dichlorobenzene	10 U	10 U	µg/L
3,3'-Dichlorobenzidine	20 U	20 U	µg/L
Diethyl phthalate	10 U	10 U	µg/L
Dimethyl phthalate	10 U	10 U	µg/L
Di-n-butyl phthalate	10 U	10 U	µg/L
Di-n-octyl phthalate	10 U	10 U	µg/L
2,4-Dinitrotoluene	10 U	10 U	µg/L
2,6-Dinitrotoluene	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	TMW-2	TMW-3	Units
Fluoranthene	10 U	10 U	µg/L
Fluorene	10 U	10 U	µg/L
Hexachlorobenzene	10 U	10 U	µg/L
Hexachlorobutadiene	10 U	10 U	µg/L
Hexachlorocyclopentadiene	10 U	10 U	µg/L
Hexachloroethane	10 U	10 U	µg/L
Indeno(1,2,3-cd)pyrene	10 U	10 U	µg/L
Isophorone	10 U	10 U	µg/L
1-Methylnaphthalene	46	10 U	µg/L
2-Methylnaphthalene	45	10 U	µg/L
Naphthalene	42	10 U	µg/L
Nitrobenzene	10 U	10 U	µg/L
N-Nitrosodimethylamine	10 U	10 U	µg/L
N-Nitrosodi-n-propylamine	10 U	10 U	µg/L
N-Nitrosodiphenylamine	10 U	10 U	µg/L
Phenanthrene	10 U	10 U	µg/L
Pyrene	10 U	10 U	µg/L
1,2,4-Trichlorobenzene	10 U	10 U	µg/L
Benzyl Alcohol	10 U	10 U	µg/L
Benzoic Acid	10 U	10 U	µg/L
4-Chloroaniline	10 U	10 U	µg/L
2-Nitroaniline	10 U	10 U	µg/L
3-Nitroaniline	10 U	10 U	µg/L
4-Nitroaniline	10 U	10 U	µg/L
Dibenzofuran	10 U	10 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	TMW-2	TMW-3	Units
Pyridine	10 U	10 U	µg/L
4-Chloro-3-methylphenol	10 U	10 U	µg/L
2-Chlorophenol	10 U	10 U	µg/L
2,4-Dichlorophenol	10 U	10 U	µg/L
2,4-Dimethylphenol	10 U	10 U	µg/L
2,4-Dinitrophenol	50 U	50 U	µg/L
2-Methyl-4,6-dinitrophenol	30 U	30 U	µg/L
2-Nitrophenol	10 U	10 U	µg/L
4-Nitrophenol	10 U	10 U	µg/L
Pentachlorophenol	10 U	10 U	µg/L
Phenol	10 U	10 U	µg/L
2,4,6-Trichlorophenol	10 U	10 U	µg/L
2-Methylphenol	10 U	10 U	µg/L
3 & 4-Methylphenol	10 U	10 U	µg/L
2,4,5-Trichlorophenol	10 U	10 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	36	46	30-106
2-Fluorobiphenyl	50	57	38-107
Terphenyl -D14	80	92	29-131
Phenol -D5	27	34	12-87
2-Fluorophenol	32	45	19-115
2,4,6-Tribromophenol	89	80	35-126
Date Extracted	04/28/00	04/28/00	
Date Analyzed	04/28/00	04/29/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-2	TMW-3	Units
Arsenic	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Barium	200.7	0.10 U	0.10 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Cadmium	200.7	0.0010 U	**0.0010** I	mg/L
Date Analyzed		04/26/00	04/26/00	
Chromium	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Lead	200.7	0.0050 U	0.0050 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Mercury	245.1	0.00020 U	0.00020 U	mg/L
Date Analyzed		04/27/00	04/27/00	
Selenium	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	
Silver	200.7	0.010 U	0.010 U	mg/L
Date Analyzed		04/26/00	04/26/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-2	TMW-3	Units
Hydrocarbons (C8-C40)	**3.2**	0.20 U	mg/L
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	108	90	65-140
Date Extracted	05/01/00	05/01/00	
Date Analyzed	05/02/00	05/01/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

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RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	CS-1			CS-2			Units
Dichlorodifluoromethane	3.3	U	D2	2.9	U	D3	µg/Kg
Chloromethane	1.6	U	D2	1.5	U	D3	µg/Kg
Vinyl Chloride	1.6	U	D2	1.5	U	D3	µg/Kg
Bromomethane	1.0	U	D2	1.0	U	D3	µg/Kg
Chloroethane	1.0	U	D2	1.0	U	D3	µg/Kg
Trichlorofluoromethane	1.0	U	D2	1.0	U	D3	µg/Kg
1,1-Dichloroethene	1.6	U	D2	1.5	U	D3	µg/Kg
Acetone	32	U	D2	29	U	D3	µg/Kg
Carbon Disulfide	32	U	D2	29	U	D3	µg/Kg
Methylene Chloride	8.0	U	D2	7.0	U	D3	µg/Kg
t-1,2-Dichloroethene	1.6	U	D2	1.5	U	D3	µg/Kg
Methyl tert-butyl ether	1.6	U	D2	1.5	U	D3	µg/Kg
1,1-Dichloroethane	1.6	U	D2	1.5	U	D3	µg/Kg
2,2-Dichloropropane	4.0	U	D2	3.0	U	D3	µg/Kg
c-1,2-Dichloroethene	1.6	U	D2	1.5	U	D3	µg/Kg
2-Butanone	33	U	D2	29	U	D3	µg/Kg
Chloroform	1.6	U	D2	1.5	U	D3	µg/Kg
1,1,1-Trichloroethane	1.6	U	D2	1.5	U	D3	µg/Kg
Carbon tetrachloride	1.6	U	D2	1.5	U	D3	µg/Kg
1,1-Dichloropropene	1.6	U	D2	1.5	U	D3	µg/Kg
Benzene	1.6	U	D2	1.5	U	D3	µg/Kg
1,2-Dichloroethane	1.6	U	D2	1.5	U	D3	µg/Kg
Trichloroethene	1.6	U	D2	1.5	U	D3	µg/Kg
1,2-Dichloropropane	1.6	U	D2	1.5	U	D3	µg/Kg
Dibromomethane	1.6	U	D2	1.5	U	D3	µg/Kg
Bromodichloromethane	1.6	U	D2	1.5	U	D3	µg/Kg

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.33 dilution.
D3 = Analyte value determined from a 1:1.35 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	CS-1			CS-2			Units
2-Chloroethyl vinyl ether	10	U	D2	8.0	U	D3	µg/Kg
c-1,3-Dichloropropene	1.6	U	D2	1.5	U	D3	µg/Kg
4-Methyl-2-pentanone	32	U	D2	29	U	D3	µg/Kg
Toluene	1.6	U	D2	1.5	U	D3	µg/Kg
t-1,3-Dichloropropene	1.6	U	D2	1.5	U	D3	µg/Kg
1,1,2-Trichloroethane	1.6	U	D2	1.5	U	D3	µg/Kg
Tetrachloroethene	5.0	U	D2	4.0	U	D3	µg/Kg
1,3-Dichloropropane	1.6	U	D2	1.5	U	D3	µg/Kg
2-Hexanone	32	U	D2	29	U	D3	µg/Kg
Dibromochloromethane	1.6	U	D2	1.5	U	D3	µg/Kg
1,2-Dibromoethane	1.6	U	D2	1.5	U	D3	µg/Kg
Chlorobenzene	1.6	U	D2	1.5	U	D3	µg/Kg
1,1,1,2-Tetrachloroethane	1.6	U	D2	1.5	U	D3	µg/Kg
Ethylbenzene	1.6	U	D2	1.5	U	D3	µg/Kg
m-Xylene & p-Xylene	3.3	U	D2	2.9	U	D3	µg/Kg
o-Xylene	1.6	U	D2	1.5	U	D3	µg/Kg
Styrene	1.6	U	D2	1.5	U	D3	µg/Kg
Bromoform	1.6	U	D2	1.5	U	D3	µg/Kg
Isopropylbenzene	1.6	U	D2	1.5	U	D3	µg/Kg
1,1,2,2-Tetrachloroethane	1.6	U	D2	1.5	U	D3	µg/Kg
Bromobenzene	1.6	U	D2	1.5	U	D3	µg/Kg
1,2,3-Trichlorobenzene	1.6	U	D2	1.5	U	D3	µg/Kg
n-Propylbenzene	1.6	U	D2	1.5	U	D3	µg/Kg
2-Chlorotoluene	1.6	U	D2	1.5	U	D3	µg/Kg
1,3,5-Trimethylbenzene	1.6	U	D2	1.5	U	D3	µg/Kg
4-Chlorotoluene	1.6	U	D2	1.5	U	D3	µg/Kg

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.33 dilution.
D3 = Analyte value determined from a 1:1.35 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	CS-1		CS-2		Units
tert-Butylbenzene	1.6 U	D2	1.5 U	D3	µg/Kg
1,2,4-Trimethylbenzene	1.6 U	D2	1.5 U	D3	µg/Kg
s-Butylbenzene	1.6 U	D2	1.5 U	D3	µg/Kg
1,3-Dichlorobenzene	1.6 U	D2	1.5 U	D3	µg/Kg
p-Isopropyltoluene	1.6 U	D2	1.5 U	D3	µg/Kg
1,4-Dichlorobenzene	1.6 U	D2	1.5 U	D3	µg/Kg
n-Butylbenzene	1.6 U	D2	1.5 U	D3	µg/Kg
1,2-Dichlorobenzene	1.6 U	D2	1.5 U	D3	µg/Kg
1,2-Dibromo-3-chloropropane	1.0 U	D2	1.0 U	D3	µg/Kg
1,2,4-Trichlorobenzene	1.6 U	D2	1.5 U	D3	µg/Kg
Hexachlorobutadiene	1.6 U	D2	1.5 U	D3	µg/Kg
Naphthalene	1.6 U	D2	1.5 U	D3	µg/Kg
1,2,3-Trichloropropane	1.6 U	D2	1.5 U	D3	µg/Kg
Bromochloromethane	1.6 U	D2	1.5 U	D3	µg/Kg

Surrogate:	% RECOV	% RECOV	LIMITS
Dibromofluoromethane	89	88	59-143
D8-Toluene	100	93	60-115
Bromofluorobenzene	99	97	55-144
Date Analyzed	04/30/00	04/30/00	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.33 dilution.
D3 = Analyte value determined from a 1:1.35 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8270 - SEMIVOLATILE ORGANICS	CS-1	CS-2	Units
Acenaphthene	400 U	350 U	µg/Kg
Acenaphthylene	400 U	350 U	µg/Kg
Anthracene	400 U	350 U	µg/Kg
Benzidine	400 U	350 U	µg/Kg
Benzo(a)anthracene	400 U	350 U	µg/Kg
Benzo(b)fluoranthene	400 U	350 U	µg/Kg
Benzo(k)fluoranthene	400 U	350 U	µg/Kg
Benzo(g,h,i)perylene	400 U	350 U	µg/Kg
Benzo(a)pyrene	400 U	350 U	µg/Kg
Benzylbutyl phthalate	400 U	350 U	µg/Kg
Bis(2-chloroethoxy)methane	400 U	350 U	µg/Kg
Bis(2-chloroethyl)ether	400 U	350 U	µg/Kg
Bis(2-chloroisopropyl)ether	400 U	350 U	µg/Kg
Bis(2-ethylhexyl)phthalate	400 U	350 U	µg/Kg
4-Bromophenylphenyl ether	400 U	350 U	µg/Kg
2-Chloronaphthalene	400 U	350 U	µg/Kg
4-Chlorophenyl phenyl ether	400 U	350 U	µg/Kg
Chrysene	400 U	350 U	µg/Kg
Dibenzo(a,h)anthracene	400 U	350 U	µg/Kg
1,2-Dichlorobenzene	400 U	350 U	µg/Kg
1,3-Dichlorobenzene	400 U	350 U	µg/Kg
1,4-Dichlorobenzene	400 U	350 U	µg/Kg
3,3'-Dichlorobenzidine	800 U	700 U	µg/Kg
Diethyl phthalate	400 U	350 U	µg/Kg
Dimethyl phthalate	400 U	350 U	µg/Kg
Di-n-butyl phthalate	400 U	350 U	µg/Kg
Di-n-octyl phthalate	400 U	350 U	µg/Kg
2,4 Dinitrotoluene	400 U	350 U	µg/Kg
2,6-Dinitrotoluene	400 U	350 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	CS-1	CS-2	Units
Fluoranthene	400 U	350 U	µg/Kg
Fluorene	400 U	350 U	µg/Kg
Hexachlorobenzene	400 U	350 U	µg/Kg
Hexachlorobutadiene	400 U	350 U	µg/Kg
Hexachlorocyclopentadiene	400 U	350 U	µg/Kg
Hexachloroethane	400 U	350 U	µg/Kg
Indeno(1,2,3-cd)pyrene	400 U	350 U	µg/Kg
Isophorone	400 U	350 U	µg/Kg
1-Methylnaphthalene	400 U	350 U	µg/Kg
2-Methylnaphthalene	400 U	350 U	µg/Kg
Naphthalene	400 U	350 U	µg/Kg
Nitrobenzene	400 U	350 U	µg/Kg
N-Nitrosodimethylamine	400 U	350 U	µg/Kg
N-Nitrosodi-n-propylamine	400 U	350 U	µg/Kg
N-Nitrosodiphenylamine	400 U	350 U	µg/Kg
Phenanthrene	400 U	350 U	µg/Kg
Pyrene	400 U	350 U	µg/Kg
1,2,4-Trichlorobenzene	400 U	350 U	µg/Kg
Benzyl Alcohol	400 U	350 U	µg/Kg
Benzoic Acid	400 U	350 U	µg/Kg
4-Chloroaniline	400 U	350 U	µg/Kg
2-Nitroaniline	400 U	350 U	µg/Kg
3-Nitroaniline	400 U	350 U	µg/Kg
4-Nitroaniline	400 U	350 U	µg/Kg
Dibenzofuran	400 U	350 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	CS-1	CS-2	Units
Pyridine	400 U	350 U	µg/Kg
4-Chloro-3-methylphenol	400 U	350 U	µg/Kg
2-Chlorophenol	400 U	350 U	µg/Kg
2,4-Dichlorophenol	400 U	350 U	µg/Kg
2,4-Dimethylphenol	400 U	350 U	µg/Kg
2,4-Dinitrophenol	2000 U	1800 U	µg/Kg
2-Methyl-4,6-dinitrophenol	1200 U	1000 U	µg/Kg
2-Nitrophenol	400 U	350 U	µg/Kg
4-Nitrophenol	400 U	350 U	µg/Kg
Pentachlorophenol	400 U	350 U	µg/Kg
Phenol	400 U	350 U	µg/Kg
2,4,6-Trichlorophenol	400 U	350 U	µg/Kg
2-Methylphenol	400 U	350 U	µg/Kg
3 & 4-Methylphenol	400 U	350 U	µg/Kg
2,4,5-Trichlorophenol	400 U	350 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	64	66	35-112
2-Fluorobiphenyl	72	80	42-111
Terphenyl -D14	97	106	40-124
Phenol -D5	69	81	20-120
2-Fluorophenol	68	81	29-130
2,4,6-Tribromophenol	66	71	35-126
Date Extracted	04/27/00	04/27/00	
Date Analyzed	04/27/00	04/27/00	

MISCELLANEOUS	METHOD	CS-1	CS-2	Units
Percent Solids	SM2540G	82	94	%
Date Analyzed		04/28/00	04/28/00	

U = Compound was analyzed for but not detected to the level shown.

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TOTAL METALS	METHOD	CS-1	CS-2	Units
Arsenic	6010	1.0 I	1.5 I	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Barium	6010	24 U	21 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Cadmium	6010	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Chromium	6010	1.0	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Lead	6010	4.4	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Mercury	7471	0.010 U	0.010 U	mg/Kg
Date Analyzed		04/28/00	04/28/00	
Selenium	6010	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Silver	6010	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-1	CS-2	Units
Hydrocarbons (C8-C40)	8.0 U	7.0 U	mg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	62	68	51-148
Date Extracted	04/28/00	04/28/00	
Date Analyzed	04/28/00	04/28/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

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RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	LAB BLANK	Units
Dichlorodifluoromethane	2.0 U	µg/L
Chloromethane	1.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	2.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	1.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Acetone	50 U	µg/L
Carbon Disulfide	50 U	µg/L
Methylene Chloride	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
Methyl tert-butyl ether	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
2,2-Dichloropropane	2.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
2-Butanone	20 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon tetrachloride	1.0 U	µg/L
1,1-Dichloropropene	1.0 U	µg/L
Benzene	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Dibromomethane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
2-Chloroethyl vinyl ether	6.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
4-Methyl-2-pentanone	20 U	µg/L
Toluene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	3.0 U	µg/L
1,3-Dichloropropane	1.0 U	µg/L
2-Hexanone	20 U	µg/L
Dibromochloromethane	1.0 U	µg/L
1,2-Dibromoethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	2.0 U	µg/L
o-Xylene	1.0 U	µg/L
Styrene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
Isopropylbenzene	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
Bromobenzene	1.0 U	µg/L
1,2,3-Trichlorobenzene	1.0 U	µg/L
n-Propylbenzene	1.0 U	µg/L
2-Chlorotoluene	1.0 U	µg/L
1,3,5-Trimethylbenzene	1.0 U	µg/L
4-Chlorotoluene	1.0 U	µg/L

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
tert-Butylbenzene	1.0 U	µg/L
1,2,4-Trimethylbenzene	1.0 U	µg/L
s-Butylbenzene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
p-Isopropyltoluene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
n-Butylbenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	µg/L
1,2,4-Trichlorobenzene	1.0 U	µg/L
Hexachlorobutadiene	1.0 U	µg/L
Naphthalene	2.0 U	µg/L
1,2,3-Trichloropropane	1.0 U	µg/L
Bromochloromethane	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Dibromofluoromethane	90	38-143
D8-Toluene	93	78-126
Bromofluorobenzene	100	72-132
Date Analyzed	04/29/00	

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	CS-3	LAB BLANK	Units
Dichlorodifluoromethane	4.7 U D4	2.0 U	µg/Kg
Chloromethane	2.4 U D4	1.0 U	µg/Kg
Vinyl Chloride	2.4 U D4	1.0 U	µg/Kg
Bromomethane	2.0 U D4	1.0 U	µg/Kg
Chloroethane	2.0 U D4	1.0 U	µg/Kg
Trichlorofluoromethane	2.0 U D4	1.0 U	µg/Kg
1,1-Dichloroethene	2.4 U D4	1.0 U	µg/Kg
Acetone	47 U D4	**24**	µg/Kg
Carbon Disulfide	47 U D4	20 U	µg/Kg
Methylene Chloride	11 U D4	**8.0** I	µg/Kg
t-1,2-Dichloroethene	2.4 U D4	1.0 U	µg/Kg
Methyl tert-butyl ether	2.4 U D4	1.0 U	µg/Kg
1,1-Dichloroethane	2.4 U D4	1.0 U	µg/Kg
2,2-Dichloropropane	5.0 U D4	2.0 U	µg/Kg
c-1,2-Dichloroethene	2.4 U D4	1.0 U	µg/Kg
2-Butanone	47 U D4	20 U	µg/Kg
Chloroform	2.4 U D4	1.0 U	µg/Kg
1,1,1-Trichloroethane	2.4 U D4	1.0 U	µg/Kg
Carbon tetrachloride	2.4 U D4	1.0 U	µg/Kg
1,1-Dichloropropene	2.4 U D4	1.0 U	µg/Kg
Benzene	2.4 U D4	1.0 U	µg/Kg
1,2-Dichloroethane	2.4 U D4	1.0 U	µg/Kg
Trichloroethene	2.4 U D4	1.0 U	µg/Kg
1,2-Dichloropropane	2.4 U D4	1.0 U	µg/Kg
Dibromomethane	2.4 U D4	1.0 U	µg/Kg
Bromodichloromethane	2.4 U D4	1.0 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).
D4 = Analyte value determined from a 1:2.29 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	CS-3	LAB BLANK	Units
2-Chloroethyl vinyl ether	14 U D4	6.0 U	µg/Kg
c-1,3-Dichloropropene	2.4 U D4	1.0 U	µg/Kg
4-Methyl-2-pentanone	47 U D4	20 U	µg/Kg
Toluene	2.4 U D4	1.0 U	µg/Kg
t-1,3-Dichloropropene	2.4 U D4	1.0 U	µg/Kg
1,1,2-Trichloroethane	2.4 U D4	1.0 U	µg/Kg
Tetrachloroethene	7.0 U D4	3.0 U	µg/Kg
1,3-Dichloropropane	2.4 U D4	1.0 U	µg/Kg
2-Hexanone	47 U D4	20 U	µg/Kg
Dibromochloromethane	2.4 U D4	1.0 U	µg/Kg
1,2-Dibromoethane	2.4 U D4	1.0 U	µg/Kg
Chlorobenzene	2.4 U D4	1.0 U	µg/Kg
1,1,1,2-Tetrachloroethane	2.4 U D4	1.0 U	µg/Kg
Ethylbenzene	2.4 U D4	1.0 U	µg/Kg
m-Xylene & p-Xylene	4.7 U D4	2.0 U	µg/Kg
o-Xylene	2.4 U D4	1.0 U	µg/Kg
Styrene	2.4 U D4	1.0 U	µg/Kg
Bromoform	2.4 U D4	1.0 U	µg/Kg
Isopropylbenzene	2.4 U D4	1.0 U	µg/Kg
1,1,2,2-Tetrachloroethane	2.4 U D4	1.0 U	µg/Kg
Bromobenzene	2.4 U D4	1.0 U	µg/Kg
1,2,3-Trichlorobenzene	2.4 U D4	1.0 U	µg/Kg
n-Propylbenzene	2.4 U D4	1.0 U	µg/Kg
2-Chlorotoluene	2.4 U D4	1.0 U	µg/Kg
1,3,5-Trimethylbenzene	2.4 U D4	1.0 U	µg/Kg
4-Chlorotoluene	2.4 U D4	1.0 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:2.29 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	CS-3	LAB BLANK	Units
tert-Butylbenzene	2.4 U D4	1.0 U	µg/Kg
1,2,4-Trimethylbenzene	2.4 U D4	1.0 U	µg/Kg
s-Butylbenzene	2.4 U D4	1.0 U	µg/Kg
1,3-Dichlorobenzene	2.4 U D4	1.0 U	µg/Kg
p-Isopropyltoluene	2.4 U D4	1.0 U	µg/Kg
1,4-Dichlorobenzene	2.4 U D4	1.0 U	µg/Kg
n-Butylbenzene	2.4 U D4	1.0 U	µg/Kg
1,2-Dichlorobenzene	2.4 U D4	1.0 U	µg/Kg
1,2-Dibromo-3-chloropropane	2.0 U D4	1.0 U	µg/Kg
1,2,4-Trichlorobenzene	2.4 U D4	1.0 U	µg/Kg
Hexachlorobutadiene	2.4 U D4	1.0 U	µg/Kg
Naphthalene	2.4 U D4	1.0 U	µg/Kg
1,2,3-Trichloropropane	2.4 U D4	1.0 U	µg/Kg
Bromochloromethane	2.4 U D4	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	89	96	59-143
D8-Toluene	98	108	60-115
Bromofluorobenzene	100	108	55-144
Date Analyzed	04/30/00	04/28/00	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:2.29 dilution.

RESULTS OF ANALYSIS

EPA METHOD 8270 - SEMIVOLATILE ORGANICS	LAB BLANK	Units
Acenaphthene	10 U	µg/L
Acenaphthylene	10 U	µg/L
Anthracene	10 U	µg/L
Benzidine	10 U	µg/L
Benzo(a)anthracene	10 U	µg/L
Benzo(b)fluoranthene	10 U	µg/L
Benzo(k)fluoranthene	10 U	µg/L
Benzo(g,h,i)perylene	10 U	µg/L
Benzo(a)pyrene	10 U	µg/L
Benzylbutyl phthalate	10 U	µg/L
Bis(2-chloroethoxy)methane	10 U	µg/L
Bis(2-chloroethyl)ether	10 U	µg/L
Bis(2-chloroisopropyl)ether	10 U	µg/L
Bis(2-ethylhexyl)phthalate	10 U	µg/L
4-Bromophenylphenyl ether	10 U	µg/L
2-Chloronaphthalene	10 U	µg/L
4-Chlorophenyl phenyl ether	10 U	µg/L
Chrysene	10 U	µg/L
Dibenzo(a,h)anthracene	10 U	µg/L
1,2-Dichlorobenzene	10 U	µg/L
1,3-Dichlorobenzene	10 U	µg/L
1,4-Dichlorobenzene	10 U	µg/L
3,3'-Dichlorobenzidine	20 U	µg/L
Diethyl phthalate	10 U	µg/L
Dimethyl phthalate	10 U	µg/L
Di-n-butyl phthalate	10 U	µg/L
Di-n-octyl phthalate	10 U	µg/L
2,4-Dinitrotoluene	10 U	µg/L
2,6-Dinitrotoluene	10 U	µg/L

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	LAB BLANK	Units
Fluoranthene	10 U	µg/L
Fluorene	10 U	µg/L
Hexachlorobenzene	10 U	µg/L
Hexachlorobutadiene	10 U	µg/L
Hexachlorocyclopentadiene	10 U	µg/L
Hexachloroethane	10 U	µg/L
Indeno(1,2,3-cd)pyrene	10 U	µg/L
Isophorone	10 U	µg/L
1-Methylnaphthalene	10 U	µg/L
2-Methylnaphthalene	10 U	µg/L
Naphthalene	10 U	µg/L
Nitrobenzene	10 U	µg/L
N-Nitrosodimethylamine	10 U	µg/L
N-Nitrosodi-n-propylamine	10 U	µg/L
N-Nitrosodiphenylamine	10 U	µg/L
Phenanthrene	10 U	µg/L
Pyrene	10 U	µg/L
1,2,4-Trichlorobenzene	10 U	µg/L
Benzyl Alcohol	10 U	µg/L
Benzoic Acid	10 U	µg/L
4-Chloroaniline	10 U	µg/L
2-Nitroaniline	10 U	µg/L
3-Nitroaniline	10 U	µg/L
4-Nitroaniline	10 U	µg/L
Dibenzofuran	10 U	µg/L

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	LAB BLANK	Units
Pyridine	10 U	µg/L
4-Chloro-3-methylphenol	10 U	µg/L
2-Chlorophenol	10 U	µg/L
2,4-Dichlorophenol	10 U	µg/L
2,4-Dimethylphenol	10 U	µg/L
2,4-Dinitrophenol	50 U	µg/L
2-Methyl-4,6-dinitrophenol	30 U	µg/L
2-Nitrophenol	10 U	µg/L
4-Nitrophenol	10 U	µg/L
Pentachlorophenol	10 U	µg/L
Phenol	10 U	µg/L
2,4,6-Trichlorophenol	10 U	µg/L
2-Methylphenol	10 U	µg/L
3 & 4-Methylphenol	10 U	µg/L
2,4,5-Trichlorophenol	10 U	µg/L

Surrogate:	% RECOV	LIMITS
Nitrobenzene -D5	70	30-106
2-Fluorobiphenyl	72	38-107
Terphenyl -D14	#186	29-131
Phenol -D5	# 60	12-87
2-Fluorophenol	76	19-115
2,4,6-Tribromophenol	91	35-126
Date Extracted	04/28/00	
Date Analyzed	04/28/00	

# = surrogate recovery outside of laboratory established limits.
NR= Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

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REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

EPA METHOD 8270 - SEMIVOLATILE ORGANICS	CS-3	LAB BLANK	Units
Acenaphthene	340 U	330 U	µg/Kg
Acenaphthylene	340 U	330 U	µg/Kg
Anthracene	340 U	330 U	µg/Kg
Benzidine	340 U	330 U	µg/Kg
Benzo(a)anthracene	340 U	330 U	µg/Kg
Benzo(b)fluoranthene	340 U	330 U	µg/Kg
Benzo(k)fluoranthene	340 U	330 U	µg/Kg
Benzo(g,h,i)perylene	340 U	330 U	µg/Kg
Benzo(a)pyrene	340 U	330 U	µg/Kg
Benzylbutyl phthalate	340 U	330 U	µg/Kg
Bis(2-chloroethoxy)methane	340 U	330 U	µg/Kg
Bis(2-chloroethyl)ether	340 U	330 U	µg/Kg
Bis(2-chloroisopropyl)ether	340 U	330 U	µg/Kg
Bis(2-ethylhexyl)phthalate	340 U	330 U	µg/Kg
4-Bromophenylphenyl ether	340 U	330 U	µg/Kg
2-Chloronaphthalene	340 U	330 U	µg/Kg
4-Chlorophenyl phenyl ether	340 U	330 U	µg/Kg
Chrysene	340 U	330 U	µg/Kg
Dibenzo(a,h)anthracene	340 U	330 U	µg/Kg
1,2-Dichlorobenzene	340 U	330 U	µg/Kg
1,3-Dichlorobenzene	340 U	330 U	µg/Kg
1,4-Dichlorobenzene	340 U	330 U	µg/Kg
3,3'-Dichlorobenzidine	680 U	660 U	µg/Kg
Diethyl phthalate	340 U	330 U	µg/Kg
Dimethyl phthalate	340 U	330 U	µg/Kg
Di-n-butyl phthalate	340 U	330 U	µg/Kg
Di-n-octyl phthalate	340 U	330 U	µg/Kg
2,4-Dinitrotoluene	340 U	330 U	µg/Kg
2,6-Dinitrotoluene	340 U	330 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	CS-3	LAB BLANK	Units
Fluoranthene	340 U	330 U	µg/Kg
Fluorene	340 U	330 U	µg/Kg
Hexachlorobenzene	340 U	330 U	µg/Kg
Hexachlorobutadiene	340 U	330 U	µg/Kg
Hexachlorocyclopentadiene	340 U	330 U	µg/Kg
Hexachloroethane	340 U	330 U	µg/Kg
Indeno(1,2,3-cd)pyrene	340 U	330 U	µg/Kg
Isophorone	340 U	330 U	µg/Kg
1-Methylnaphthalene	340 U	330 U	µg/Kg
2-Methylnaphthalene	340 U	330 U	µg/Kg
Naphthalene	340 U	330 U	µg/Kg
Nitrobenzene	340 U	330 U	µg/Kg
N-Nitrosodimethylamine	340 U	330 U	µg/Kg
N-Nitrosodi-n-propylamine	340 U	330 U	µg/Kg
N-Nitrosodiphenylamine	340 U	330 U	µg/Kg
Phenanthrene	340 U	330 U	µg/Kg
Pyrene	340 U	330 U	µg/Kg
1,2,4-Trichlorobenzene	340 U	330 U	µg/Kg
Benzyl Alcohol	340 U	330 U	µg/Kg
Benzoic Acid	340 U	330 U	µg/Kg
4-Chloroaniline	340 U	330 U	µg/Kg
2-Nitroaniline	340 U	330 U	µg/Kg
3-Nitroaniline	340 U	330 U	µg/Kg
4-Nitroaniline	340 U	330 U	µg/Kg
Dibenzofuran	340 U	330 U	µg/Kg

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8270 (cont.) - SEMIVOLATILE ORGANICS	CS-3	LAB BLANK	Units
Pyridine	340 U	330 U	µg/Kg
4-Chloro-3-methylphenol	340 U	330 U	µg/Kg
2-Chlorophenol	340 U	330 U	µg/Kg
2,4-Dichlorophenol	340 U	330 U	µg/Kg
2,4-Dimethylphenol	340 U	330 U	µg/Kg
2,4-Dinitrophenol	1700 U	1600 U	µg/Kg
2-Methyl-4,6-dinitrophenol	1000 U	990 U	µg/Kg
2-Nitrophenol	340 U	330 U	µg/Kg
4-Nitrophenol	340 U	330 U	µg/Kg
Pentachlorophenol	340 U	330 U	µg/Kg
Phenol	340 U	330 U	µg/Kg
2,4,6-Trichlorophenol	340 U	330 U	µg/Kg
2-Methylphenol	340 U	330 U	µg/Kg
3 & 4-Methylphenol	340 U	330 U	µg/Kg
2,4,5-Trichlorophenol	340 U	330 U	µg/Kg
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Nitrobenzene -D5	70	74	35-112
2-Fluorobiphenyl	73	90	42-111
Terphenyl -D14	101	111	40-124
Phenol -D5	86	90	20-120
2-Fluorophenol	86	93	29-130
2,4,6-Tribromophenol	65	70	35-126
Date Extracted	04/27/00	04/27/00	
Date Analyzed	04/28/00	04/27/00	

MISCELLANEOUS	METHOD	CS-3	LAB BLANK	Units
Percent Solids	SM2540G	97	NR	%
Date Analyzed		04/28/00		

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Arsenic	200.7	0.010 U	mg/L
Date Analyzed		04/26/00	
Barium	200.7	0.10 U	mg/L
Date Analyzed		04/26/00	
Cadmium	200.7	0.0010 U	mg/L
Date Analyzed		04/26/00	
Chromium	200.7	0.010 U	mg/L
Date Analyzed		04/26/00	
Lead	200.7	0.0050 U	mg/L
Date Analyzed		04/26/00	

U = Compound was analyzed for but not detected to the level shown.
I = Analyte detected; value is between the Method Detection Level (MDL) and the Practical Quantitation Level (PQL).

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Mercury	245.1	0.00020 U	mg/L
Date Analyzed		04/27/00	
Selenium	200.7	0.010 U	mg/L
Date Analyzed		04/26/00	
Silver	200.7	0.010 U	mg/L
Date Analyzed		04/26/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	76	65-140
Date Extracted	05/01/00	
Date Analyzed	05/01/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	CS-3	LAB BLANK	Units
Arsenic	6010	0.90 I	0.50 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Barium	6010	21 U	20 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Cadmium	6010	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Lead	6010	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Mercury	7471	0.010 U	0.010 U	mg/Kg
Date Analyzed		04/28/00	04/28/00	
Selenium	6010	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Silver	6010	2.0 U	2.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	
Chromium	6010	1.0 U	1.0 U	mg/Kg
Date Analyzed		04/26/00	04/26/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-3	LAB BLANK	Units
Hydrocarbons (C8-C40)	6.8 U	6.6 U	mg/Kg
Surrogate:	% RECOV	% RECOV	LIMITS
o-Terphenyl	57	90	51-148
Date Extracted	04/28/00	04/28/00	
Date Analyzed	04/28/00	04/28/00	

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	LAB BLANK	LAB BLANK	Units
Dichlorodifluoromethane	2.0 U	2.0 U	µg/L
Chloromethane	1.0 U	1.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	2.0 U	2.0 U	µg/L
Chloroethane	2.0 U	2.0 U	µg/L
Trichlorofluoromethane	1.0 U	1.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Acetone	50 U	50 U	µg/L
Carbon Disulfide	50 U	50 U	µg/L
Methylene Chloride	5.0 U	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
Methyl tert-butyl ether	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
2,2-Dichloropropane	2.0 U	2.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
2-Butanone	20 U	20 U	µg/L
Chloroform	1.0 U	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	1.0 U	µg/L
Carbon tetrachloride	1.0 U	1.0 U	µg/L
1,1-Dichloropropene	1.0 U	1.0 U	µg/L
Benzene	1.0 U	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	1.0 U	µg/L
Trichloroethene	1.0 U	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	1.0 U	µg/L
Dibromomethane	1.0 U	1.0 U	µg/L
Bromodichloromethane	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

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RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	LAB BLANK	Units
2-Chloroethyl vinyl ether	6.0 U	6.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
4-Methyl-2-pentanone	20 U	20 U	µg/L
Toluene	1.0 U	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	1.0 U	µg/L
Tetrachloroethene	3.0 U	3.0 U	µg/L
1,3-Dichloropropane	1.0 U	1.0 U	µg/L
2-Hexanone	20 U	20 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
1,2-Dibromoethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Ethylbenzene	1.0 U	1.0 U	µg/L
m-Xylene & p-Xylene	2.0 U	2.0 U	µg/L
o-Xylene	1.0 U	1.0 U	µg/L
Styrene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
Isopropylbenzene	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
Bromobenzene	1.0 U	1.0 U	µg/L
1,2,3-Trichlorobenzene	1.0 U	1.0 U	µg/L
n-Propylbenzene	1.0 U	1.0 U	µg/L
2-Chlorotoluene	1.0 U	1.0 U	µg/L
1,3,5-Trimethylbenzene	1.0 U	1.0 U	µg/L
4-Chlorotoluene	1.0 U	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	LAB BLANK	Units
tert-Butylbenzene	1.0 U	1.0 U	µg/L
1,2,4-Trimethylbenzene	1.0 U	1.0 U	µg/L
s-Butylbenzene	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
p-Isopropyltoluene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
n-Butylbenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	1.0 U	µg/L
1,2,4-Trichlorobenzene	1.0 U	1.0 U	µg/L
Hexachlorobutadiene	1.0 U	1.0 U	µg/L
Naphthalene	2.0 U	2.0 U	µg/L
1,2,3-Trichloropropane	1.0 U	1.0 U	µg/L
Bromochloromethane	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Dibromofluoromethane	92	92	38-143
D8-Toluene	100	100	78-126
Bromofluorobenzene	92	92	72-132
Date Analyzed	04/30/00	04/30/00	

U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX10968
DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	LAB BLANK	Units
Dichlorodifluoromethane	2.0 U	µg/Kg
Chloromethane	1.0 U	µg/Kg
Vinyl Chloride	1.0 U	µg/Kg
Bromomethane	1.0 U	µg/Kg
Chloroethane	1.0 U	µg/Kg
Trichlorofluoromethane	1.0 U	µg/Kg
1,1-Dichloroethene	1.0 U	µg/Kg
Acetone	20 U	µg/Kg
Carbon Disulfide	20 U	µg/Kg
Methylene Chloride	5.0 U	µg/Kg
t-1,2-Dichloroethene	1.0 U	µg/Kg
Methyl tert-butyl ether	1.0 U	µg/Kg
1,1-Dichloroethane	1.0 U	µg/Kg
2,2-Dichloropropane	2.0 U	µg/Kg
c-1,2-Dichloroethene	1.0 U	µg/Kg
2-Butanone	20 U	µg/Kg
Chloroform	1.0 U	µg/Kg
1,1,1-Trichloroethane	1.0 U	µg/Kg
Carbon tetrachloride	1.0 U	µg/Kg
1,1-Dichloropropene	1.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
1,2-Dichloroethane	1.0 U	µg/Kg
Trichloroethene	1.0 U	µg/Kg
1,2-Dichloropropane	1.0 U	µg/Kg
Dibromomethane	1.0 U	µg/Kg
Bromodichloromethane	1.0 U	µg/Kg

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
2-Chloroethyl vinyl ether	6.0 U	µg/Kg
c-1,3-Dichloropropene	1.0 U	µg/Kg
4-Methyl-2-pentanone	20 U	µg/Kg
Toluene	1.0 U	µg/Kg
t-1,3-Dichloropropene	1.0 U	µg/Kg
1,1,2-Trichloroethane	1.0 U	µg/Kg
Tetrachloroethene	3.0 U	µg/Kg
1,3-Dichloropropane	1.0 U	µg/Kg
2-Hexanone	20 U	µg/Kg
Dibromochloromethane	1.0 U	µg/Kg
1,2-Dibromoethane	1.0 U	µg/Kg
Chlorobenzene	1.0 U	µg/Kg
1,1,1,2-Tetrachloroethane	1.0 U	µg/Kg
Ethylbenzene	1.0 U	µg/Kg
m-Xylene & p-Xylene	2.0 U	µg/Kg
o-Xylene	1.0 U	µg/Kg
Styrene	1.0 U	µg/Kg
Bromoform	1.0 U	µg/Kg
Isopropylbenzene	1.0 U	µg/Kg
1,1,2,2-Tetrachloroethane	1.0 U	µg/Kg
Bromobenzene	1.0 U	µg/Kg
1,2,3-Trichlorobenzene	1.0 U	µg/Kg
n-Propylbenzene	1.0 U	µg/Kg
2-Chlorotoluene	1.0 U	µg/Kg
1,3,5-Trimethylbenzene	1.0 U	µg/Kg
4-Chlorotoluene	1.0 U	µg/Kg

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
tert-Butylbenzene	1.0 U	µg/Kg
1,2,4-Trimethylbenzene	1.0 U	µg/Kg
s-Butylbenzene	1.0 U	µg/Kg
1,3-Dichlorobenzene	1.0 U	µg/Kg
p-Isopropyltoluene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
n-Butylbenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dibromo-3-chloropropane	1.0 U	µg/Kg
1,2,4-Trichlorobenzene	1.0 U	µg/Kg
Hexachlorobutadiene	1.0 U	µg/Kg
Naphthalene	1.0 U	µg/Kg
1,2,3-Trichloropropane	1.0 U	µg/Kg
Bromochloromethane	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Dibromofluoromethane	94	59-143
D8-Toluene	93	60-115
Bromofluorobenzene	94	55-144
Date Analyzed	04/30/00	

NR = Analysis not requested for this sample.
U = Compound was analyzed for but not detected to the level shown.

ENCO LABORATORIES
REPORT # : JAX10968
DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

RESULTS OF ANALYSIS

EPA METHOD 8260 - VOLATILE ORGANICS	LAB BLANK	Units
Dichlorodifluoromethane	2.0 U	µg/L
Chloromethane	1.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	2.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	1.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Acetone	50 U	µg/L
Carbon Disulfide	50 U	µg/L
Methylene Chloride	5.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
Methyl tert-butyl ether	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
2,2-Dichloropropane	2.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	µg/L
2-Butanone	20 U	µg/L
Chloroform	1.0 U	µg/L
1,1,1-Trichloroethane	1.0 U	µg/L
Carbon tetrachloride	1.0 U	µg/L
1,1-Dichloropropene	1.0 U	µg/L
Benzene	1.0 U	µg/L
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Dibromomethane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
2-Chloroethyl vinyl ether	6.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
4-Methyl-2-pentanone	20 U	µg/L
Toluene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	3.0 U	µg/L
1,3-Dichloropropane	1.0 U	µg/L
2-Hexanone	20 U	µg/L
Dibromochloromethane	1.0 U	µg/L
1,2-Dibromoethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
1,1,1,2-Tetrachloroethane	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	2.0 U	µg/L
o-Xylene	1.0 U	µg/L
Styrene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
Isopropylbenzene	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
Bromobenzene	1.0 U	µg/L
1,2,3-Trichlorobenzene	1.0 U	µg/L
n-Propylbenzene	1.0 U	µg/L
2-Chlorotoluene	1.0 U	µg/L
1,3,5-Trimethylbenzene	1.0 U	µg/L
4-Chlorotoluene	1.0 U	µg/L

U = Compound was analyzed for but not detected to the level shown.

RESULTS OF ANALYSIS

EPA METHOD 8260 (cont.) - VOLATILE ORGANICS	LAB BLANK	Units
tert-Butylbenzene	1.0 U	µg/L
1,2,4-Trimethylbenzene	1.0 U	µg/L
s-Butylbenzene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
p-Isopropyltoluene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
n-Butylbenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
1,2-Dibromo-3-chloropropane	1.0 U	µg/L
1,2,4-Trichlorobenzene	1.0 U	µg/L
Hexachlorobutadiene	1.0 U	µg/L
Naphthalene	2.0 U	µg/L
1,2,3-Trichloropropane	1.0 U	µg/L
Bromochloromethane	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Dibromofluoromethane	92	38-143
D8-Toluene	100	78-126
Bromofluorobenzene	92	72-132
Date Analyzed	04/30/00	

U = Compound was analyzed for but not detected to the level shown.

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8260				
1,1-Dichloroethene	102/ 99/ 80	45-167	3	30
Benzene	96/102/ 93	60-130	6	23
Trichloroethene	101/102/ 97	50-122	<1	10
Toluene	99/101/ 98	57-136	2	12
Chlorobenzene	104/101/ 99	59-126	3	11

Environmental Conservation Laboratories Comprehensive QA Plan #910190

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QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8270				
Phenol	50/ 50/ 59	29-102	<1	44
2-Chlorophenol	68/ 69/ 79	58-124	1	41
1,4-Dichlorobenzene	47/ 47/ 50	0-127	<1	43
N-Nitrosodi-N-Propylamine	55/ 53/ 64	72-118	4	22
1,2,4-Trichlorobenzene	58/ 57/ 58	18-129	2	43
4-Chloro-3-methylphenol	84/ 89/ 88	75-126	6	22
Acenaphthene	70/ 75/ 72	63-122	7	28
4-Nitrophenol	26/ 30/ 28	0-168	14	52
2,4-Dinitrotoluene	92/ 94/ 99	81-151	2	21
Pentachlorophenol	94/103/ 80	27-154	9	42
Pyrene	120/128/128	54-146	6	32

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N-Nitrosodi-N-Propylamine	55/ 53/ 64	72-118	4	22
1,2,4-Trichlorobenzene	58/ 57/ 58	18-129	2	43
4-Chloro-3-Methylphenol	84/ 89/ 88	75-126	6	22
Acenaphthene	70/ 75/ 72	63-122	7	28
4-Nitrophenol	26/ 30/ 28	D-168	14	52
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ENCO LABORATORIES
REPORT # : JAX10968
DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8270				
Phenol	50/ 50/ 59	29-102	<1	44
2-Chlorophenol	68/ 69/ 79	58-124	1	41
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QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8270				
Phenol	89/ 79/ 88	48-111	12	38
2-Chlorophenol	93/ 84/ 91	42-110	10	38
1,4-Dichlorobenzene	75/ 67/ 79	42-110	11	33
N-Nitrosodi-N-Propylamine	65/ 56/ 65	41-118	15	29
1,2,4-Trichlorobenzene	76/ 73/ 84	45-111	4	20
4-Chloro-3-methylphenol	76/ 74/ 76	49-120	3	38
Acenaphthene	78/ 77/ 80	38-135	1	29
4-Nitrophenol	34/ 31/ 32	44-169	9	68
2,4-Dinitrotoluene	82/ 73/ 87	42-155	12	32
Pentachlorophenol	76/ 71/ 67	0-157	7	41
Pyrene	95/ 92/102	40-116	3	37
MISCELLANEOUS				
Percent Solids, SM2540G	NA/ NA/ NA	-	NA	
TOTAL METALS				
Arsenic, 200.7	102/104/102	64-126	2	12
Arsenic, 6010	95/ 92/100	53-153	3	22
Barium, 200.7	97/ 98/ 99	74-119	1	11
Barium, 6010	97/ 96/100	70-120	1	16
Cadmium, 200.7	95/ 97/ 99	68-121	2	12
Cadmium, 6010	92/ 91/ 98	59-130	1	24
Chromium, 200.7	96/ 98/ 98	73-120	2	10
Chromium, 6010	92/ 89/ 99	57-135	3	24
Lead, 200.7	98/ 99/100	68-126	1	19
Lead, 6010	102/101/101	63-128	<1	26

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ENCO LABORATORIES
REPORT # : JAX10968
DATE REPORTED: May 3, 2000
REFERENCE : 2007
PROJECT NAME : Mayport Naval Station

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
Mercury, 245.1	113/111/112	70-136	2	12
Mercury, 7471	115/135/118	71-138	16	13
Selenium, 200.7	80/ 83/100	65-129	4	10
Selenium, 6010	87/ 86/ 95	60-121	1	14
Silver, 200.7	101/103/102	69-121	2	12
Silver, 6010	97/ 95/101	69-118	2	10
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	119/120/ 89	51-163	<1	27
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	80/ 68/ 74	62-204	16	25

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ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Mayport Naval Station
PROJECT NO.: 2007
P.O. NUMBER: ERI #2007
PAGE 1 OF 1

PROJECT LOC. (State): FL
SAMPLER(s) NAME: Richard Moriarty
PHONE: (904) 241-2200
FAX: (904) 247-3489

CLIENT NAME: Environmental Recovery Inc
CLIENT PROJECT MANAGER: Mr Chuck Nevin
CLIENT ADDRESS (CITY, STATE, ZIP): 851 Levy Road, Atlantic Beach, FLA 32233

☒ STANDARD REPORT DELIVERY
☐ EXPEDITED REPORT DELIVERY (surcharge)
Date Due: _____

MATRIX TYPE: SURFACE WATER, GROUND WATER, WASTEWATER, DRINKING WATER, SOIL/SOLID/SEDIMENT, NONAQUEOUS LIQUID (oil, solvent, etc.), AIR, SLUDGE, OTHER

REQUIRED ANALYSIS: 8260 (w/peaks), 8270 (w/peaks), FL-Pro, Total Metals (Pb)

	SAMPLE STATION	DATE	TIME	GRAB	COMP.	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID	AIR	SLUDGE	OTHER	HCL (8260)	UNP (8270)	HNO3 (FL-Pro)	H2SO4 (Total Metals)						REMARKS
1	#1	4/24/00	13:45	X		MW-15S		X								X	X	X	X						Samples collected by Richard Moriarty
2	#2	4/24/00	14:15	X		MW-03S		X								X	X	X	X						
3	#3	4/24/00	14:45	X		MW-13S		X								X	X	X	X						
4																									Sample containers sealed in poly bags and placed on wet ice for transport RM
5	#4	4/25/00	11:40	X		TMW-1		X								X	X	X	X						
6	#5	4/25/00	12:20	X		TMW-2		X								X	X	X	X						
7	#6	4/25/00	12:45	X		TMW-3		X								X	X	X	X						
8																									
9	#7	4/25/00	09:15	X		CS-1					X					X	X	X	X						Samples Hand-Delivered to ENCO, JAX RM
10	#8	4/25/00	10:00	X		CS-2					X					X	X	X	X						
11	#9	4/25/00	10:30	X		CS-3					X					X	X	X	X						
12																									
13																									Sample coolers sealed w/ custody seals for transport RM
14																									

SAMPLE KIT PREPARED BY: ☐ JACKSONVILLE ☐ ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE) Richard Moriarty	DATE 4/25/00	TIME 16:55	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
Debra Clarke ☐ Jacksonville ☐ Orlando	4/25/00	4:55 p.m.	☒ YES ☐ NO	JAX109607	Each sample kit contains: RM Groundwater: 2x40ml vials - HCL (8260) 1x1000 ml glass - UNP (8270) 2x1000 ml glass - H2SO4 (FL-Pro) 1x500 ml poly - HNO3 (Total Metals) Soil: 3x4oz Glass C8270, FLPro 3x5gm Encore C8260/5035

ATTACHMENT B

Well Sampling Field Logs

esa Well Sampling Log

Date: 4/24/00 Time: 13:00 Project Number: Limited Closure

Site Location: Newport Naval Station Fuel Depot - Tanks 99, 100, 101

Well I.D. MW-15S Depth of well (from TOC) 14.80 ft Depth to water 8.28 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction ___ ft. ___ in. slotted screen Casing Material PVC

Well Volume 1.0 gal Well Vol= 6.52 /H x 1 /r² x 0.163= 1.0 gal/vol

H= 14.80 /TD - 8.28 /DTW= 6.52 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Teflon Bailer Purge rate: 0.5 gal/min.

Purge Start Time: 13:28 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1						
2		PURGED well 5 volumes				
3						
4						
5						
Field Parameters						

Purge Stop Time: 13:38 Total gallons purged: 5.0

Sample Information:

Sample Collection Time: 13:45 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	FI-PRO	total (8) RCRA metals		
Sample Containers	2x40ml vials	1x1000ml glass (amber)	2x1000ml glass (amber)	1x500ml poly		
pH of Preserved Samples	HCl <2	Unp	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: Yes Color: Milky Turbidity: Moderate

Comments:

Field Instrument Information:

Instruments Used: N/A

Calibration: pH 4.0 ___ 7.0 ___ 10.0 ___ Conductivity: ___ Time/Date: ___

Ambient Conditions: Warm (80°F) overcast w/-0 8-12 west

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

Rich Moriarty

esa Well Sampling Log

Date: 4/24/00 Time: 14:00 Project Number: Limited Closure

Site Location: Mayport Naval Station Fuel Depot - Tanks 99, 100, 101

Well I.D. MW-03S Depth of well (from TOC) 15.30 ft Depth to water 10.22 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction ___ ft. ___ in. slotted screen Casing Material PVC

Well Volume 0.83 (4.0) gal Well Vol= 5.08 /H x 1 /r^2 x 0.163= 0.83 gal/vol

H= 15.30 /TD - 10.22 /DTW= 5.08 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Teflon Bailer Purge rate: 0.5 gal/min.

Purge Start Time: 14:03 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1						
2		— Purged Well 5 Volumes			—	
3						
4						
5						
Field Parameters						

Purge Stop Time: 14:13 Total gallons purged: 5.0

Sample Information:

Sample Collection Time: 14:15 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	Fl-Pro	total (8) RCRA metals		
Sample Containers	2x40ml vials	1x1000ml glass (amber)	2x1000ml glass (amber)	1x500ml poly		
pH of Preserved Samples	HCL <2	Non	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: No Color: Mostly Clear Turbidity: Low

Comments:

Field Instrument Information:

Instruments Used: N/A

Calibration: pH 4.0 ___ 7.0 ___ 10.0 ___ Conductivity: ___ Time/Date: ___

Ambient Conditions: Warm (80°F) overcast wind 8-12 west

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

Rich Moriarty

esa Well Sampling Log

Date: 4/24/00 Time: 14:25 Project Number: Limited Closure

Site Location: Newport Naval Station Fuel Depot - Tanks 99, 100, 101

Well I.D. MW-13S Depth of well (from TOC) 15.17 ft Depth to water 9.40 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction ___ ft. ___ in. slotted screen Casing Material PVC

Well Volume 0.94 (gal.0) gal Well Vol= 5.77 /H × 1 /r² × 0.163= 0.94 gal/vol

H= 15.17 /TD - 9.40 /DTW= 5.77 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Teflon Bailer Purge rate: 0.5 gal/min.

Purge Start Time: 1432 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1						
2						
3		— Purged Well 5 Volumes —				
4						
5						
Field Parameters						

Purge Stop Time: 14:42 Total gallons purged: 5.0

Sample Information:

Sample Collection Time: 14:45 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	Fl-Pro	total (8) RCRA metals		
Sample Containers	2x40ml vials	1x1000ml glass (amber)	2x1000ml glass (amber)	1x500ml poly		
pH of Preserved Samples	HCL <2	Non	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: No Color: Mostly clear Turbidity: moderate

Comments:

Field Instrument Information:

Instruments Used: N/A

Calibration: pH 4.0 ___ 7.0 ___ 10.0 ___ Conductivity: ___ Time/Date: ___

Ambient Conditions: Warm (80°F) overcast w/no 8-12 west

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

esa TMW-1

Well Sampling Log

Date: 4/25/00 Time: 11:00 Project Number: Limited Closure

Site Location: Mayport Naval Station Fuel Depot - Tanks #100, 101

Well I.D. TMW-1 Depth of well (from TOC) 10.60 ft Depth to water 8.67 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction ___ ft. ___ in. slotted screen Casing Material PVC

Well Volume 0.32 gal Well Vol= 1.93 /H x 1 /r^2 x 0.163= 0.31 gal/vol

H= 10.60 /TD - 8.67 /DTW= 1.93 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.2 gal/min.

Purge Start Time: 11:27 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.32					
2	0.64					
3	0.86		PURGED well 5 volumes			
4	1.18					
5	1.50					
Field Parameters						

Purge Stop Time: 11:36 Total gallons purged: 1.6

Sample Information:

Sample Collection Time: 11:40 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	FI-PRO	total (8) RCRA metals		
Sample Containers	2x40ml vials	1x1000ml glass (amber)	2x1000ml glass (amber)	1x500ml poly		
pH of Preserved Samples	HCl <2	Non	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: Yes Color: Grey - clearing with purging Turbidity: Moderate

Comments: Installed TMW-1 @ 0930 - South of Tank #101, near piping

Field Instrument Information:

Instruments Used: N/A

Calibration: pH 4.0 ___ 7.0 ___ 10.0 ___ Conductivity: _____ Time/Date: _____

Ambient Conditions: Warm (80°F) overcast w/ no 8-12 west

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

Rich Moriarty

esa TMW-2

Well Sampling Log

Date: 4/05/00 Time: 11:45 Project Number: Limited Closure

Site Location: Newport Naval Station Fuel Depot - Tanks #100, 101

Well I.D. TMW-2 Depth of well (from TOC) 10.60 ft Depth to water 8.52 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter 2 in. Well Construction ___ ft. ___ in. slotted screen Casing Material PVC

Well Volume 0.34 gal Well Vol= 2.08 /H × 1 /r² × 0.163= 0.34 gal/vol

H= 10.60 /TD - 8.52 /DTW= 2.08 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.2 gal/min.

Purge Start Time: 12:07 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.35			Purged well		
2	0.7			5 Volumes		
3	1.05					
4	1.40					
5	1.75					
Field Parameters						

Purge Stop Time: 12:16 Total gallons purged: 2.0

Sample Information:

Sample Collection Time: 12:20 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	Hi-Pro	Total (2) RCRA metals		
Sample Containers	2x40ml vials	1x1000ml Glass (Amber)	2x1000ml Glass (Amber)	1x500ml poly		
pH of Preserved Samples	HCL <2	Unp	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: Slight Petro Color: Milky Turbidity: Moderate

Comments: Installed TMW-2 South of Tank #100, near Piping

Field Instrument Information:

Instruments Used: N/A

Calibration: pH 4.0 ____ 7.0 ____ 10.0 ____ Conductivity: _____ Time/Date: _____

Ambient Conditions: Warm (80°F) overcast w/no 8-12 west

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

esa Well Sampling Log

Date: 4/25/00 Time: 1230 Project Number: Limited Closure

Site Location: Newport Naval Station Fuel Depot - Tanks 99, 100, 101

Well I.D. TMW-3 Depth of well (from TOC) 10.60 ft Depth to water 8.90 ft

Relative to Mean Sea Level: Top of Casing (TOC) _____ ft Static Water Level _____ ft

Well Diameter _____ in. Well Construction _____ ft. _____ in. slotted screen Casing Material PVC

Well Volume 0.27 (0.3) gal Well Vol= 1.70 /H × _____ /r^2 × 0.163= 0.27 gal/vol

H= 10.60 /TD - 8.90 /DTW= 1.70 ft

Well Type: ____upgradient ____downgradient ____ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.2 gal/min.

Purge Start Time: 12:34 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.3					
2	0.6	Purged well 5 volumes				
3	0.9					
4	1.2					
5	1.5					
Field Parameters						

Purge Stop Time: 12:43 Total gallons purged: 1.5

Sample Information:

Sample Collection Time: 12:45 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	8260	8270	Fl-Pro	Total (8) RCRA metals		
Sample Containers	2x40ml vials	1x1000ml Glass (amber)	2x1000ml Glass (amber)	1x500ml poly		
pH of Preserved Samples	HCL <2	UNP	H_2SO_4 <2	HNO_3 <2		
Additional Preservative						

Product noted: None Odor noted: No Color: Mostly clear Turbidity: Low

Comments: Installed TMW-3 @ midpoint between tank #100 + 101

Field Instrument Information:

Instruments Used: N/A

Calibration: pH 4.0 _____ 7.0 _____ 10.0 _____ Conductivity: _____ Time/Date: _____

Ambient Conditions: Warm (80°F) overcast wind 8-12 west

Field Personnel (name/title): Richard Moriarty / Environmental Scientist

Sample delivered to laboratory by: Hand-Delivered

Richard Moriarty