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LIMITED CLOSURE SUMMARY REPORT FOR FUEL DEPOT TANK 203 NS MAYPORT FL
8/1/2000
ENVIRONMENTAL SCIENCE ASSOCIATES

LIMITED CLOSURE SUMMARY REPORT

Mayport Naval Station Fuel Depot
Tank # 203
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

August 2000

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Photodocumentation

ATTACHMENT A - Laboratory Reports

ATTACHMENT B - Well Sampling Field Logs

Department of Environmental Protection

FLORIDA

Twin 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 6/01/00	FDEP Facility ID Number 8626008	County Duval
Facility Name Mayport Naval Station, Tank #203	Facility Telephone #: ( )	
Facility Address: Mayport Naval Station, Mayport, Florida		
Owner or Operator Name: U.S. Navy	Owner/Operator phone #: ( )	
Mailing Address:		

Storage Tank System Closure Information

1. Were the storage tanks(s): (Check one or both)

• Aboveground	• Underground ✓

2. General System Information

Types of Products Stored: Vehicular Diesel	Number of Tanks Closed One	Age(s) of Tanks 35 yrs

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) 6/1/00 Affiliation EEL, Inc.

Printed on recycled paper.

LIMITED CLOSURE SUMMARY REPORT

Mayport Naval Station Fuel Depot
Tank # 203
Mayport Naval Station, Duval County, Florida
Facility ID # 8626008

Summary of Field Activities

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 a diesel fuel Underground Storage Tank (UST) 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 subsurface site conditions in the vicinity of the tank. Field activities for the limited closure assessment were conducted on May 30, 31 and June 1, 2000.

Tank 203 is identified on the FDEP Storage Tank registration information as a 1,555,000-gallon bulk vehicular diesel fuel UST, with a reported installation date of 7/1964. The tank had been previously dismantled and removed from the site, with the circular concrete tank pad, measuring 100 ft in diameter, remaining in place. The limited closure assessment activities were conducted following the removal of the tank, 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 thirteen (13) confirmatory soil and groundwater were collected from soil borings conducted at the base of the former tank location. A total of eight (8) soil borings (soil boring locations # SB-P1 through SB-P8, with the 'P' designator used to identify sampling locations selected at the perimeter of the tank pad) were conducted at equidistant locations around the perimeter of the concrete tank pad; a total of four (4) additional soil borings (SB-9 through SB-12) were conducted at equidistant locations at the midpoint between the center of the concrete tank pad and the center point of the tank pad; and the remaining soil boring (SB-13) was conducted at the center of the tank pad. Site preparation activities included the use of a concrete core drill to remove a 5-inch diameter core from the 6-inch thick concrete tank pad at those sampling locations selected directly beneath the former tank location. Soil boring locations were selected around the perimeter of the tank pad using a compass heading of North for soil boring location SB-P1, and continuing at uniform intervals in a clockwise direction around the perimeter of the tank pad for soil boring locations #SB-P2 through SB-P8.

The soil borings were conducted using a stainless steel hand auger. Each of the borings were advanced to the depth of the water table, which was encountered at a depth of approximately 4 to 5 ft below surface grade in each of the soil borings. Soil samples were collected from each soil boring at the ground surface and at one foot intervals until the water table was encountered. These soil samples were screened for the presence of volatile organic hydrocarbon vapors by organic vapor headspace analysis field screening procedures using a Foxboro 128 Organic Vapor Analyzer/Flame Ionization Detector (OVA/FID). In this procedure, a clean 16-ounce, wide mouth glass jar is half-filled with the soil to be tested. The jar is then sealed with aluminum foil and allowed to equilibrate at ambient temperatures for a period of approximately five minutes. The probe of the OVA/FID is then inserted through the foil seal, and the concentration of volatile organic compounds in the headspace of the jar is read in parts per million (ppm). The instrument was calibrated in the field prior to sample collection using a standard of 95 parts per million (ppm) methane, and the samples were analyzed both with and without carbon filtration in order to detect and correct for the presence of naturally occurring organic vapors (i.e., methane). The results of the field screening were below 1 part per million total (corrected) volatile petroleum hydrocarbon vapors in each of the soil sampling locations.

A total of thirteen (13) confirmatory soil samples were collected, with one (1) soil sample collected from each of the thirteen soil borings conducted in proximity of the former tank location. Based on the results of the OVA soil screening, which indicated a lack of indications of volatile petroleum hydrocarbon vapors in the soil samples, as well as on a lack of apparent visual indications of the presence of contamination, each of the confirmatory soil samples were collected from a depth of approximately 1 foot above the water table, which was encountered at a depth of approximately 4.0 to 5.0 feet below the concrete base of the of the former tank.

Each of the confirmatory soil 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 8021	Volatile Organic Compounds
EPA Method 8310	Polynuclear Aromatic Hydrocarbons
Fla-PRO	Total Petroleum Hydrocarbons

The results of the laboratory analysis of the soil samples detected the presence of petroleum hydrocarbon compounds in seven (7) of the thirteen (13) confirmatory soil samples collected, including sample #'s CS-P4, CS-P6, CS-P7, CS-P8, CS-11, CS-12, and CS-13, with the highest concentrations detected in CS-P4. The soil contaminant concentrations detected in each of the soil samples were below the Florida Department of Environmental Protection (FDEP) Soil Cleanup Target Levels (SCTL) as specified in Chapter 62-775, F.A.C., Table II, in all samples, with the exception of soil sample #CS-P4. Concentrations of Polynuclear Aromatic Hydrocarbons detected

in confirmatory soil sample #CS-P4 exhibited concentrations of Benzo(a)anthracene (2.2mg/Kg) in excess of the Direct Exposure, Residential Soil Cleanup Target Level of 1.5mg/Kg, and Benzo(a)pyrene (1.0mg/Kg) in excess of the Direct Exposure, Residential Soil Cleanup Target Level of 0.1mg/Kg, as well as the Direct Exposure, Industrial Soil Cleanup Target Level of 0.5mg/Kg. All concentrations detected were below the applicable Leachability exposure guidelines specified by 62-775. The results of the soil analysis are summarized in Table 2, and soil sampling locations are illustrated in Figure 3. Copies of the laboratory reports of the confirmatory soil analysis are provided in Attachment A.

Following confirmatory soil sample collection, each of the thirteen (13) 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 through TMW-13) 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 4 to 5 ft below the concrete base of the tank. 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 utilizing the quiescent purging technique. 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 for those parameters specified in the Kerosene Analytical Group, as follows:

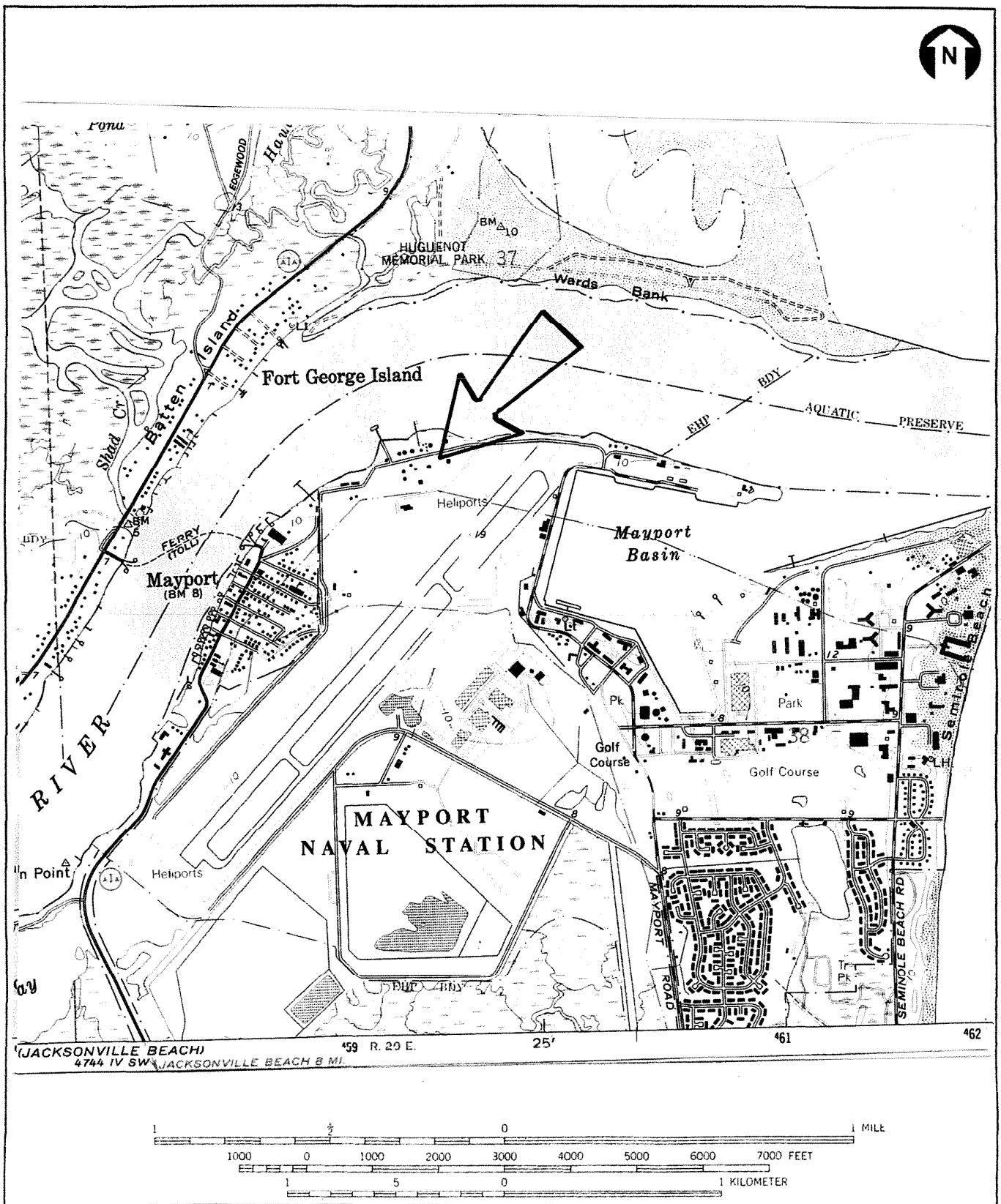
EPA Method 8021	Volatile Organic Compounds
EPA Method 8310	Polynuclear Aromatic Hydrocarbons
Fla-PRO	Total Petroleum Hydrocarbons
EPA Method 504	Ethylene dibromide (EDB)
EPA Method 200.7	Total Lead

The results of the laboratory analysis of the groundwater samples collected from the temporary monitor wells indicated concentrations of petroleum product chemicals of concern, including Polynuclear Aromatic Hydrocarbons, Lead, and/or Volatile Organic Compounds in five (5) of the thirteen (13) wells sampled; however, the concentrations of all contaminants of concern were detected at concentrations below the applicable groundwater guidance concentration as specified in Chapter 62-775, Table I (refer to Table 3). Polynuclear Aromatic Hydrocarbons were detected in temporary monitor wells #TMW-P1, TMW-P2, TMW-P3, TMW-P4, and TMW P5; Lead was detected in temporary monitor wells # TMW-1 (10μg/L), TMW-2 (11μg/L), and in TMW-P3 (8μg/L), and Tetrachloroethene was detected in Temporary monitor well # TMW-P3 (only), at a concentration of 2.0 μg/L. The results of the laboratory analysis of the groundwater samples collected from the temporary monitor wells are summarized in Table 3, and the temporary well locations are illustrated in Figure 2. Copies of the laboratory reports of the groundwater analysis are provided in Attachment A, and copies of the well sampling field logs are provided in Attachment B.

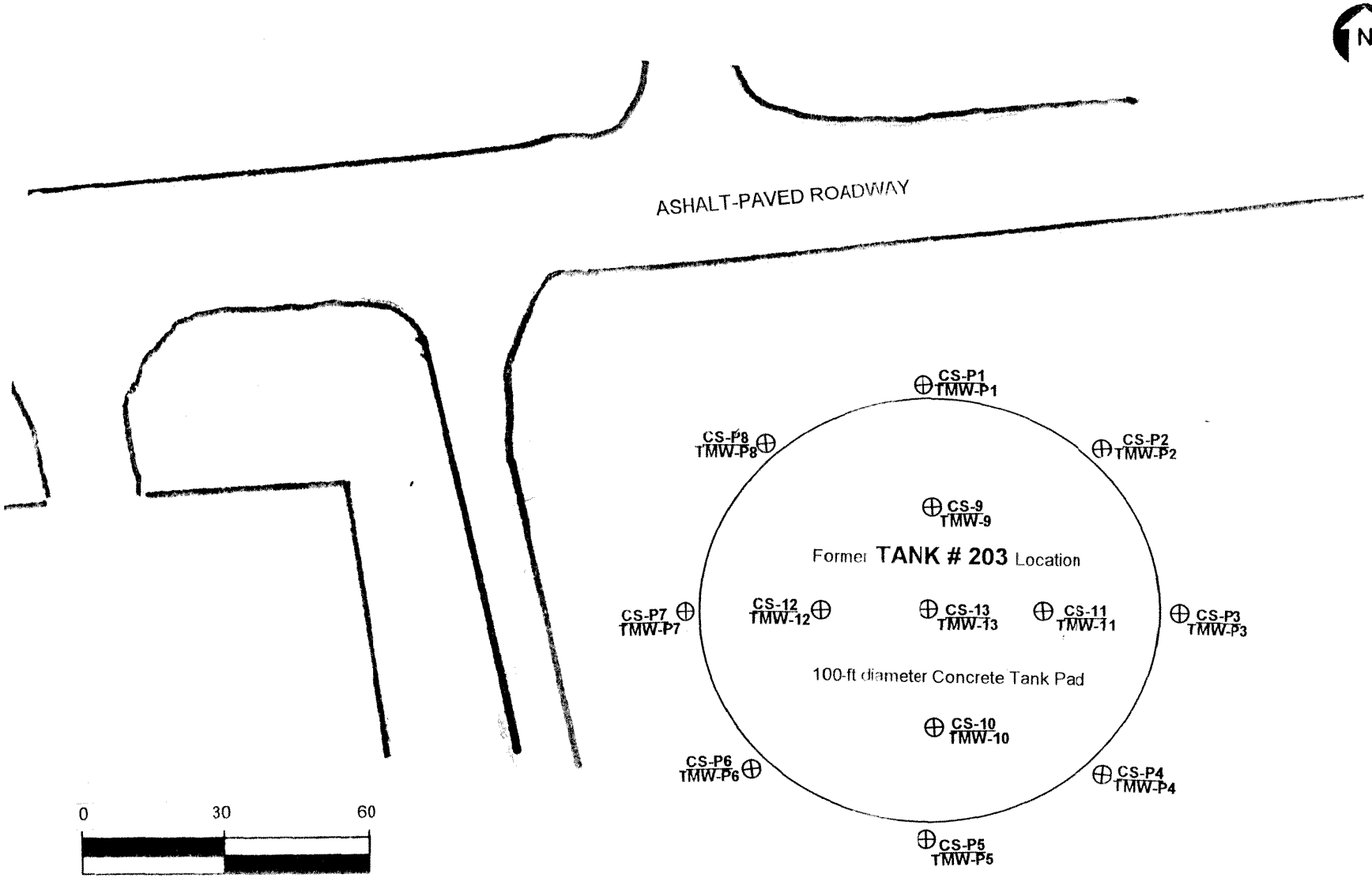
Included in this limited closure summary report are copies of the laboratory reports of the soil and groundwater analysis, which are provided as Attachment A. Also included in the report is a site location map, a site sketch indicating soil and groundwater sampling locations relative to the former tank 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, Tank #203** Mayport Naval Station Fuel Depot Mayport Naval Station, Duval County, Florida; Facility ID #8626008	FIGURE **1** PROJECT NO.



⊕ = Confirmatory Soil and Groundwater Sampling Locations

Environmental Science Associates, Inc.

Site Map Indicating Soil and Groundwater Sampling Locations
Mayport Naval Station Fuel Depot, Tank #203
Mayport Naval Station, Duval County, Florida
Facility ID # 8626008

	INITIAL	DATE
DRAWN BY:		
REVIEWED BY:		
PROJECT MANAGER:		

FIGURE
2
PROJECT NO.

Table 1. SUMMARY of OVA SOIL SCREENING RESULTS
Limited Closure Summary
Tank #203
Mayport Naval Station
Mayport, Duval County, Florida
Facility ID # 8626008

Sample I.D.	Sample Depth (below grade)	ORGANIC VAPOR CONCENTRATION (in parts per million) Unfiltered	Filtered	Total	Remarks
SB-1:					**North side of concrete tank pad, perimeter.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-2:					**Perimeter of concrete tank pad, NE.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-3:					**Perimeter of concrete tank pad, East.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	[illegible]	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-4:					**Perimeter of concrete tank pad, SE.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-5:					**Perimeter of concrete tank pad, South.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-6:					**Perimeter of concrete tank pad, SW.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG

Table 1., OVA Soil Screening Results, continued

Sample I.D.	Sample Depth (below grade)	ORGANIC VAPOR CONCENTRATION (in parts per million) Unfiltered	Filtered	Total	Remarks
SB-7:					**Perimeter of concrete tank pad, West.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-8:					**Perimeter of concrete tank pad, NW.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-9:					**Midpoint, north**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-10:					**Midpoint, south.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-11:					**Midpoint, east.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-12:					**Midpoint, west.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG
SB-13:					**Center of concrete tank pad.**
	Surficial	0	0	0	
	1 foot below grade	0	0	0	
	2 feet below grade	0	0	0	
	3 feet below grade	0	0	0	
	4 feet below grade	0	0	0	- water table @ 4.5 - 5.0 ft BG

Field Meter: Foxboro 128 OVA/FID
Field Calibration Check: 5/30/00;10:50/ 5/31/00;08:50/6/1/00;09:15
Description of Procedures: OVA Soil Headspace Analysis

Table 2.
Summary of Laboratory Analysis
Confirmatory Soil Sampling
Mayport Naval Station Fuel Depot, Tank # 203
Mayport Naval Station, Duval County, Florida

Parameter	Confirmatory Soil Sample ID			FDEP Soil Cleanup Target Levels*		
	CS-P1	CS-P2	CS-P3	Residential	Industrial	Leachability
Volatile Organic Compounds:						
(EPA Method 8021)						
Benzene	BDL	BDL	BDL	1.1	0.6	0.007
Toluene	BDL	BDL	BDL	380	2600	0.5
Ethylbenzene	BDL	BDL	BDL	1100	8400	0.6
Xylenes	BDL	BDL	BDL	5900	40000	0.2
MTBE	BDL	BDL	BDL	3200	22000	0.5
All Other 8021 Compounds	BDL	BDL	BDL		N/A	
Polynuclear Aromatic Hydrocarbons:						
(EPA Method 8310)						
Naphthalene	BDL	BDL	BDL	40	270	1.7
Flourene	BDL	BDL	BDL	2200	28000	160
Phenanthrene	BDL	BDL	BDL	2000	30000	250
Flouranthrene	BDL	BDL	BDL	2900	48000	1200
Pyrene	BDL	BDL	BDL	2200	37000	880
Benzo(a)anthracene	BDL	BDL	BDL	1.5	5	3.2
Benzo(b)Flouranthene	BDL	BDL	BDL	1.4	4.8	10
Benzo(a)pyrene	BDL	BDL	BDL	0.1	0.5	8
Benzo(g,h,i,)perylene	BDL	BDL	BDL	2300	41000	32000
Chrysene	BDL	BDL	BDL	140	450	77
Dibenzo(a,h)anthracene	BDL	BDL	BDL	0.1	0.5	30
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	1.5	5.3	28
All other 8310 Compounds	BDL	BDL	BDL		N/A	
FLA PRO:	BDL	BDL	BDL	340	2500	340

Concentrations in mg/Kg
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 2, continued.
Summary of Laboratory Analysis
Confirmatory Soil Sampling
Mayport Naval Station Fuel Depot, Tank # 203
Mayport Naval Station, Duval County, Florida

Parameter	Confirmatory Soil Sample ID			FDEP Soil Cleanup Target Levels*		
	CS-P4	CS-P5	CS-P6	Residential	Industrial	Leachability
Volatile Organic Compounds:						
(EPA Method 8021)						
Benzene	BDL	BDL	BDL	1.1	0.6	0.007
Toluene	BDL	BDL	BDL	380	2600	0.5
Ethylbenzene	BDL	BDL	BDL	1100	8400	0.6
Xylenes	BDL	BDL	BDL	5900	40000	0.2
MTBE	BDL	BDL	BDL	3200	22000	0.5
All Other 8021 Compounds	BDL	BDL	BDL		N/A	
Polynuclear Aromatic Hydrocarbons:						
(EPA Method 8310)						
Naphthalene	0.740	BDL	BDL	40	270	1.7
Flourene	0.290	BDL	BDL	2200	28000	160
Phenanthrene	3.9	BDL	BDL	2000	30000	250
Flouranthrene	9.9	BDL	0.052	2900	48000	1200
Pyrene	6.9	BDL	0.045	2200	37000	880
Benzo(a)anthracene	**2.2**	BDL	0.015	**1.5**	5	3.2
Benzo(b)flouranthene	BDL	BDL	BDL	1.4	4.8	10
Benzo(a)pyrene	1.0	BDL	BDL	**0.1**	**0.5**	8
Benzo(g,h,i,)perylene	0.410	BDL	BDL	2300	41000	32000
Chrysene	2.8	BDL	0.014	140	450	77
Dibenzo(a,h)anthracene	0.200	BDL	BDL	0.1	0.5	30
Indeno(1,2,3-cd)pyrene	0.560	BDL	BDL	1.5	5.3	28
All other 8310 Compounds	BDL	BDL	BDL		N/A	
FLA PRO:	BDL	BDL	BDL	340	2500	340

Concentrations in mg/Kg
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 2, continued.
Summary of Laboratory Analysis
Confirmatory Soil Sampling
Mayport Naval Station Fuel Depot, Tank # 203
Mayport Naval Station, Duval County, Florida

Parameter	Confirmatory Soil Sample ID			FDEP Soil Cleanup Target Levels*		
	CS-P7	CS-P8	CS-9	Residential	Industrial	Leachability
Volatile Organic Compounds:						
(EPA Method 8021)						
Benzene	BDL	0.0027	BDL	1.1	0.6	0.007
Toluene	BDL	BDL	BDL	380	2600	0.5
Ethylbenzene	BDL	BDL	BDL	1100	8400	0.6
Xylenes	BDL	BDL	BDL	5900	40000	0.2
MTBE	BDL	BDL	BDL	3200	22000	0.5
All Other 8021 Compounds	BDL	BDL	BDL		N/A	
Polynuclear Aromatic Hydrocarbons:						
(EPA Method 8310)						
Naphthalene	BDL	BDL	BDL	40	270	1.7
Flourene	BDL	BDL	BDL	2200	28000	160
Phenanthrene	BDL	BDL	BDL	2000	30000	250
Flouranthrene	BDL	BDL	BDL	2900	48000	1200
Pyrene	0.010	0.011	BDL	2200	37000	880
Benzo(a)anthracene	0.0053	0.053	BDL	1.5	5	3.2
Benzo(b)Flouranthene	BDL	BDL	BDL	1.4	4.8	10
Benzo(a)pyrene	BDL	BDL	BDL	0.1	0.5	8
Benzo(g,h,i,)perylene	BDL	BDL	BDL	2300	41000	32000
Chrysene	BDL	BDL	BDL	140	450	77
Dibenzo(a,h)anthracene	BDL	BDL	BDL	0.1	0.5	30
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	1.5	5.3	28
All other 8310 Compounds	BDL	BDL	BDL		N/A	
FLA PRO:	BDL	BDL	BDL	340	2500	340

Concentrations in mg/Kg
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 2, continued.
Summary of Laboratory Analysis
Confirmatory Soil Sampling
Mayport Naval Station Fuel Depot, Tank # 203
Mayport Naval Station, Duval County, Florida

Parameter	Confirmatory Soil Sample ID				FDEP Soil Cleanup Target Levels*		
	CS-10	CS-11	CS-12	CS-13	Residential	Industrial	Leachability
Volatile Organic Compounds:							
(EPA Method 8021)							
Benzene	BDL	BDL	BDL	BDL	1.1	0.6	0.007
Toluene	BDL	0.014	0.014	0.005	380	2600	0.5
Ethylbenzene	BDL	BDL	BDL	BDL	1100	8400	0.6
Xylenes	BDL	0.006	0.006	0.001	5900	40000	0.2
MTBE	BDL	BDL	BDL	BDL	3200	22000	0.5
All Other 8021 Compounds	BDL	BDL	BDL	BDL		N/A	
Polynuclear Aromatic Hydrocarbons:							
(EPA Method 8310)							
Naphthalene	BDL	BDL	BDL	BDL	40	270	1.7
Flourene	BDL	BDL	BDL	BDL	2200	28000	160
Phenanthrene	BDL	BDL	BDL	BDL	2000	30000	250
Flouranthrene	BDL	BDL	BDL	BDL	2900	48000	1200
Pyrene	BDL	BDL	BDL	BDL	2200	37000	880
Benzo(a)anthracene	BDL	BDL	BDL	BDL	1.5	5	3.2
Benzo(b)Flouranthene	BDL	BDL	BDL	BDL	1.4	4.8	10
Benzo(a)pyrene	BDL	BDL	BDL	BDL	0.1	0.5	8
Benzo(g,h,i,)perylene	BDL	BDL	BDL	BDL	2300	41000	32000
Chrysene	BDL	BDL	BDL	BDL	140	450	77
Dibenzo(a,h)anthracene	BDL	BDL	0.013	BDL	0.1	0.5	30
Indeno(1,2,3-cd)pyrene	BDL	BDL	0.0085	BDL	1.5	5.3	28
All other 8310 Compounds	BDL	BDL	BDL	BDL		N/A	
FLA PRO:	BDL	BDL	BDL	BDL	340	2500	340

Concentrations in mg/Kg
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 through TMW-13
Mayport Naval Station Fuel Depot, Tank #203
Mayport Naval Station, Duval County, Florida

Parameter	Monitor Well ID #					FDEP
	TMW-P1	TMW-P2	TMW-P3	TMW-P4	TMW-P5	GWCTL*
Volatile Organic Compounds:						
(EPA Method 601/602)						
Benzene	BDL	BDL	BDL	BDL	BDL	1μg/L
Toluene	BDL	BDL	BDL	BDL	BDL	40μg/L
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	30μg/L
Xylenes	BDL	BDL	BDL	BDL	BDL	20μg/L
MTBE	BDL	BDL	BDL	BDL	BDL	50μg/L
Tetrachloroethene	BDL	BDL	2.0μg/L	BDL	BDL	3.0μg/L
All other 601/602 Compounds:	BDL	BDL	BDL	BDL	BDL	N/A
Semi-Volatile Organic Compounds:						
(EPA Method 8270)						
1-Methylnaphthalene	BDL	BDL	BDL	BDL	BDL	20μg/L
2-Methylnaphthalene	BDL	BDL	BDL	BDL	BDL	20μg/L
Naphthalene	BDL	BDL	BDL	BDL	BDL	20μg/L
Acenaphthene	BDL	BDL	0.62μg/L	0.63μg/L	1.6μg/L	20μg/L
Anthracene	BDL	BDL	BDL	BDL	BDL	2100μg/L
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL	0.2μg/L
Benzo(b)Flouranthene	BDL	BDL	BDL	BDL	BDL	0.2μg/L
Chrysene	BDL	BDL	BDL	BDL	BDL	4.8μg/L
Flourene	BDL	0.25μg/L	0.40μg/L	0.16μg/L	0.61μg/L	280μg/L
Phenanthrene	BDL	1.8μg/L	1.4 μg/L	BDL	3.0μg/L	210μg/L
Flouranthene	BDL	0.35μg/L	0.75μg/L	0.41μg/L	1.9μg/L	280μg/L
Pyrene	BDL	0.35μg/L	0.59μg/L	0.45μg/L	1.4μg/L	210μg/L
All other 8310 Compounds	BDL	BDL	BDL	BDL	BDL	N/A
FLA PRO:	BDL	BDL	BDL	BDL	BDL	5mg/L
EDB:	BDL	BDL	BDL	BDL	BDL	0.02μg/L
Total Lead:	10μg/L	11μg/L	8μg/L	BDL	BDL	15μg/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 3, Continued.
Summary of Laboratory Analysis
Groundwater Sampling - Temporary Monitor Wells #TMW-1 through TMW-13
Mayport Naval Station Fuel Depot, Tank #203
Mayport Naval Station, Duval County, Florida

Parameter	Monitor Well ID #					FDEP
	TMW-P6	TMW-P7	TMW-P8	TMW-9	TMW-10	GWCTL*
Volatile Organic Compounds:						
(EPA Method 601/602)						
Benzene	BDL	BDL	BDL	BDL	BDL	1μg/L
Toluene	BDL	BDL	BDL	BDL	BDL	40μg/L
Ethylbenzene	BDL	BDL	BDL	BDL	BDL	30μg/L
Xylenes	BDL	BDL	BDL	BDL	BDL	20μg/L
MTBE	BDL	BDL	BDL	BDL	BDL	50μg/L
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	3.0μg/L
All other 601/602 Compounds:	BDL	BDL	BDL	BDL	BDL	N/A
Semi-Volatile Organic Compounds:						
(EPA Method 8270)						
1-Methylnaphthalene	3.1μg/L	BDL	BDL	BDL	BDL	20μg/L
2-Methylnaphthalene	BDL	BDL	BDL	BDL	BDL	20μg/L
Naphthalene	BDL	BDL	BDL	BDL	BDL	20μg/L
Acenaphthene	6.9μg/L	BDL	BDL	BDL	BDL	20μg/L
Anthracene	BDL	BDL	BDL	BDL	BDL	2100μg/L
Benzo(a)anthracene	0.16μg/L	BDL	BDL	BDL	BDL	0.2μg/L
Benzo(b)Flouranthene	BDL	BDL	BDL	BDL	BDL	0.2μg/L
Chrysene	0.16μg/L	BDL	BDL	BDL	BDL	4.8μg/L
Flourene	1.2μg/L	BDL	BDL	BDL	BDL	280μg/L
Phenanthrene	BDL	BDL	BDL	BDL	BDL	210μg/L
Flouranthene	1.7μg/L	BDL	BDL	BDL	BDL	280μg/L
Pyrene	1.1μg/L	BDL	BDL	BDL	BDL	210μg/L
All other 8310 Compounds	BDL	BDL	BDL	BDL	BDL	N/A
FLA PRO:	BDL	BDL	BDL	BDL	BDL	5mg/L
EDB:	BDL	BDL	BDL	BDL	BDL	0.02μg/L
Total Lead:	BDL	BDL	BDL	BDL	BDL	15μg/L

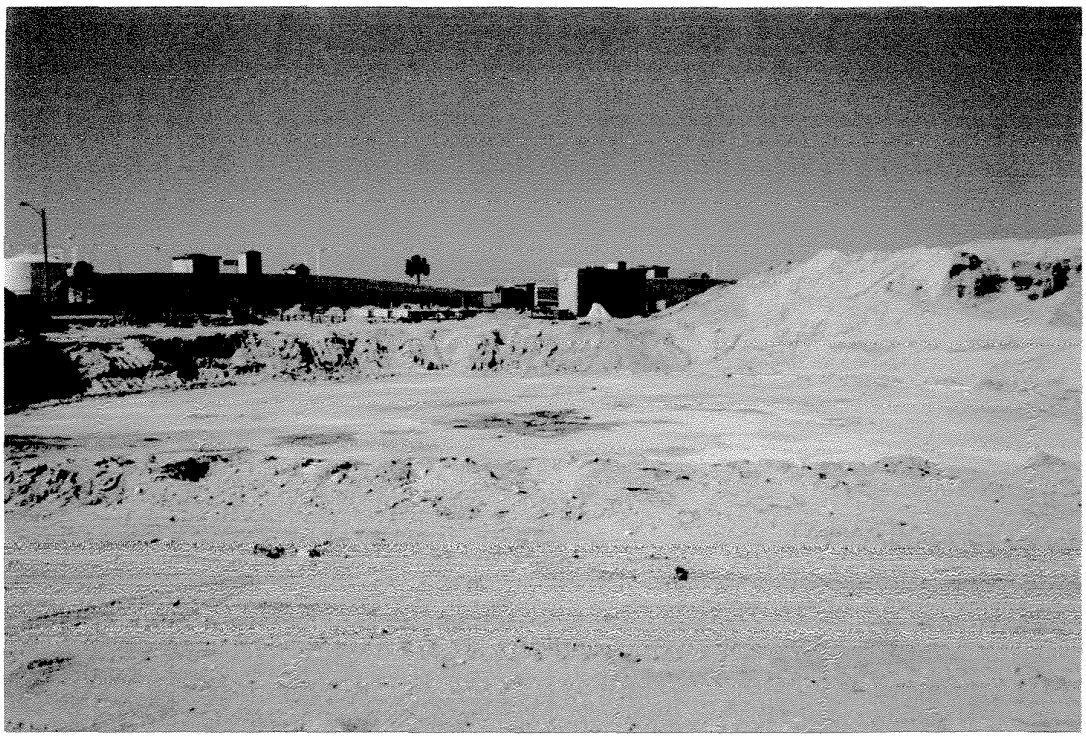
BDL = Below Detection Limits; N/A= Not Applicable
*Groundwater Cleanup Target Levels as per 62-775 F.A.C., Table I, Groundwater Cleanup Target Levels

Table 3, Continued.
Summary of Laboratory Analysis
Groundwater Sampling - Temporary Monitor Wells #TMW-1 through TMW-13
Mayport Naval Station Fuel Depot, Tank #203
Mayport Naval Station, Duval County, Florida

Parameter	Monitor Well ID # TMW-11	TMW-12	TMW-13	FDEP GWCTL*
Volatile Organic Compounds:				
(EPA Method 601/602)				
Benzene	BDL	BDL	BDL	1μg/L
Toluene	BDL	BDL	BDL	40μg/L
Ethylbenzene	BDL	BDL	BDL	30μg/L
Xylenes	BDL	BDL	BDL	20μg/L
MTBE	BDL	BDL	BDL	50μg/L
Tetrachloroethene	BDL	BDL	BDL	3.0μg/L
All other 601/602 Compounds:	BDL	BDL	BDL	N/A
Semi-Volatile Organic Compounds:				
(EPA Method 8270)				
1-Methylnaphthalene	BDL	BDL	BDL	20μg/L
2-Methylnaphthalene	BDL	BDL	BDL	20μg/L
Naphthalene	BDL	BDL	BDL	20μg/L
Acenaphthene	BDL	BDL	BDL	20μg/L
Anthracene	BDL	BDL	BDL	2100μg/L
Benzo(a)anthracene	BDL	BDL	BDL	0.2μg/L
Benzo(b)Flouranthene	BDL	BDL	BDL	0.2μg/L
Chrysene	BDL	BDL	BDL	4.8μg/L
Flourene	BDL	BDL	BDL	280μg/L
Phenanthrene	BDL	BDL	BDL	210μg/L
Flouranthene	BDL	BDL	BDL	280μg/L
Pyrene	BDL	BDL	BDL	210μg/L
All other 8310 Compounds	BDL	BDL	BDL	N/A
FLA PRO:	BDL	BDL	BDL	5mg/L
EDB:	BDL	BDL	BDL	0.02μg/L
Total Lead:	BDL	BDL	BDL	15μg/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 location of Tank #203, with circular concrete tank pad evident.



2. Photograph facing generally northeast, overlooking former location of Tank #203, with circular concrete tank pad evident.

Photodocumntation: Limited Closure Summary, Tank #203
Mayport Maval Station, Mayport, Florida
Facility ID # 8626008

ATTACHMENT A

Laboratory Reports

Confirmatory Soil Analysis (CS-P1 through CS-13)
Groundwater nalysis (TMW-P1 through TMW-13)

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 # : JAX11524
DATE SUBMITTED: May 30, 2000
DATE REPORTED : June 12, 2000

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: 2339

Mayport Naval Station Tank #203

05/30/00

#1 - CS-P1 @ 11:15
#2 - CS-P2 @ 12:25
#3 - CS-P3 @ 13:30
#4 - TMW-P1 @ 14:10
#5 - TMW-P2 @ 14:55
#6 - TMW-P3 @ 15:50

PROJECT MANAGER _____
Scott D. Martin

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P1	Units
Methyl tert-butyl ether	4.0 U D1	µg/Kg
Benzene	2.1 U D1	µg/Kg
Toluene	2.1 U D1	µg/Kg
Chlorobenzene	2.1 U D1	µg/Kg
Ethylbenzene	2.1 U D1	µg/Kg
m-Xylene & p-Xylene	4.0 U D1	µg/Kg
o-Xylene	2.0 U D1	µg/Kg
1,3-Dichlorobenzene	2.0 U D1	µg/Kg
1,4-Dichlorobenzene	2.0 U D1	µg/Kg
1,2-Dichlorobenzene	2.0 U D1	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	101	28-165
Date Analyzed	06/01/00	-

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P1	Units
Hydrocarbons (C8-C40)	8.2 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	82	51-148
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1.72 dilution.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P1	Units
Naphthalene	21 U	µg/Kg
Acenaphthylene	41 U	µg/Kg
1-Methylnaphthalene	41 U	µg/Kg
2-Methylnaphthalene	41 U	µg/Kg
Acenaphthene	21 U	µg/Kg
Fluorene	4.1 U	µg/Kg
Phenanthrene	41 U	µg/Kg
Anthracene	8.2 U	µg/Kg
Fluoranthene	4.1 U	µg/Kg
Pyrene	4.1 U	µg/Kg
Benzo(a)anthracene	12 U	µg/Kg
Chrysene	4.1 U	µg/Kg
Benzo(b)fluoranthene	4.1 U	µg/Kg
Benzo(k)fluoranthene	4.1 U	µg/Kg
Benzo(a)pyrene	4.1 U	µg/Kg
Dibenzo(a,h)anthracene	4.1 U	µg/Kg
Benzo(g,h,i)perylene	4.1 U	µg/Kg
Indeno(1,2,3-cd)pyrene	4.1 U	µg/Kg

Surrogate:	% RECOV	LIMITS
p-terphenyl	92	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P1	Units
Percent Solids	SM2540G	80	%
Date Analyzed		06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P2	Units
Methyl tert-butyl ether	3.0 U D1	µg/Kg
Benzene	1.8 U D1	µg/Kg
Toluene	1.8 U D1	µg/Kg
Chlorobenzene	1.8 U D1	µg/Kg
Ethylbenzene	1.8 U D1	µg/Kg
m-Xylene & p-Xylene	3.0 U D1	µg/Kg
o-Xylene	2.0 U D1	µg/Kg
1,3-Dichlorobenzene	2.0 U D1	µg/Kg
1,4-Dichlorobenzene	2.0 U D1	µg/Kg
1,2-Dichlorobenzene	2.0 U D1	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	85	28-165
Date Analyzed	06/01/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P2	Units
Hydrocarbons (C8-C40)	7.2 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	75	51-148
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1.72 dilution.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P2	Units
Naphthalene	18 U	µg/Kg
Acenaphthylene	36 U	µg/Kg
1-Methylnaphthalene	36 U	µg/Kg
2-Methylnaphthalene	36 U	µg/Kg
Acenaphthene	18 U	µg/Kg
Fluorene	3.6 U	µg/Kg
Phenanthrene	36 U	µg/Kg
Anthracene	7.2 U	µg/Kg
Fluoranthene	3.6 U	µg/Kg
Pyrene	3.6 U	µg/Kg
Benzo(a)anthracene	11 U	µg/Kg
Chrysene	3.6 U	µg/Kg
Benzo(b)fluoranthene	3.6 U	µg/Kg
Benzo(k)fluoranthene	3.6 U	µg/Kg
Benzo(a)pyrene	3.6 U	µg/Kg
Dibenzo(a,h)anthracene	3.6 U	µg/Kg
Benzo(g,h,i)perylene	3.6 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.6 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	94	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P2	Units
Percent Solids	SM2540G	92	%
Date Analyzed		06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P3	Units
Methyl tert-butyl ether	2.0 U D2	µg/Kg
Benzene	1.4 U D2	µg/Kg
Toluene	1.4 U D2	µg/Kg
Chlorobenzene	1.4 U D2	µg/Kg
Ethylbenzene	1.4 U D2	µg/Kg
m-Xylene & p-Xylene	2.0 U D2	µg/Kg
o-Xylene	1.0 U D2	µg/Kg
1,3-Dichlorobenzene	1.0 U D2	µg/Kg
1,4-Dichlorobenzene	1.0 U D2	µg/Kg
1,2-Dichlorobenzene	1.0 U D2	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	88	28-165
Date Analyzed	06/01/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P3	Units
Hydrocarbons (C8-C40)	8.4 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	72	51-148
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.09 dilution.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P3	Units
Naphthalene	21 U	µg/Kg
Acenaphthylene	42 U	µg/Kg
1-Methylnaphthalene	42 U	µg/Kg
2-Methylnaphthalene	42 U	µg/Kg
Acenaphthene	21 U	µg/Kg
Fluorene	4.2 U	µg/Kg
Phenanthrene	42 U	µg/Kg
Anthracene	8.4 U	µg/Kg
Fluoranthene	4.2 U	µg/Kg
Pyrene	4.2 U	µg/Kg
Benzo(a)anthracene	12 U	µg/Kg
Chrysene	4.2 U	µg/Kg
Benzo(b)fluoranthene	4.2 U	µg/Kg
Benzo(k)fluoranthene	4.2 U	µg/Kg
Benzo(a)pyrene	4.2 U	µg/Kg
Dibenzo(a,h)anthracene	4.2 U	µg/Kg
Benzo(g,h,i)perylene	4.2 U	µg/Kg
Indeno(1,2,3-cd)pyrene	4.2 U	µg/Kg

Surrogate:	% RECOV	LIMITS
p-terphenyl	84	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P3	Units
Percent Solids	SM2540G	79	%
Date Analyzed		06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P1	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	102	37-161
Date Analyzed	06/03/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P1	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	121	59-132
Date Analyzed	06/03/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P1	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	88	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P1	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P1	Units
Lead	200.7	0.010 I	mg/L
Date Analyzed		06/02/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P1	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	79	65-140
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

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).

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P2	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	92	37-161
Date Analyzed	06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P2	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	116	59-132
Date Analyzed	06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P2	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.25	µg/L
Phenanthrene	1.8	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.35	µg/L
Pyrene	0.35	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	104	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P2	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P2	Units
Lead	200.7	0.011 I	mg/L
Date Analyzed		06/02/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P2	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	66	65-140
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

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).

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P3	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	2.0	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	91	37-161
Date Analyzed	06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P3	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	116	59-132
Date Analyzed	06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P3	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	**0.62**	µg/L
Fluorene	**0.40**	µg/L
Phenanthrene	**1.4**	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	**0.75**	µg/L
Pyrene	**0.59**	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	103	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P3	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P3	Units
Lead	200.7	0.0080 I	mg/L
Date Analyzed		06/02/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P3	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	65	65-140
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

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).

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	1.0 U	µg/L
Chloromethane	2.0 U	2.0 U	µg/L
Vinyl Chloride	1.0 U	1.0 U	µg/L
Bromomethane	1.0 U	1.0 U	µg/L
Chloroethane	2.0 U	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	1.0 U	µg/L
Methylene Chloride	2.0 U	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 U	1.0 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
1,2-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
Bromodichloromethane	1.0 U	1.0 U	µg/L
c-1,3-Dichloropropene	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	1.0 U	1.0 U	µg/L
Dibromochloromethane	1.0 U	1.0 U	µg/L
Chlorobenzene	1.0 U	1.0 U	µg/L
Bromoform	1.0 U	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	1.0 U	µg/L
Surrogate:	**% RECOV**	**% RECOV**	**LIMITS**
Bromofluorobenzene	100	95	37-161
Date Analyzed	06/03/00	06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	131	59-132
Date Analyzed	06/03/00	

EPA METHOD 8021 - VOLATILE ORGANICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
Toluene	1.0 U	µg/Kg
Chlorobenzene	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
1,3-Dichlorobenzene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	94	28-165
Date Analyzed	06/01/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L

Surrogate:	% RECOV	LIMITS
p-terphenyl	104	43-148
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	16 U	µg/Kg
Acenaphthylene	33 U	µg/Kg
1-Methylnaphthalene	33 U	µg/Kg
2-Methylnaphthalene	33 U	µg/Kg
Acenaphthene	16 U	µg/Kg
Fluorene	3.3 U	µg/Kg
Phenanthrene	33 U	µg/Kg
Anthracene	6.6 U	µg/Kg
Fluoranthene	3.3 U	µg/Kg
Pyrene	3.3 U	µg/Kg
Benzo(a)anthracene	9.9 U	µg/Kg
Chrysene	3.3 U	µg/Kg
Benzo(b)fluoranthene	3.3 U	µg/Kg
Benzo(k)fluoranthene	3.3 U	µg/Kg
Benzo(a)pyrene	3.3 U	µg/Kg
Dibenzo(a,h)anthracene	3.3 U	µg/Kg
Benzo(g,h,i)perylene	3.3 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.3 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	101	39-141
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	LAB BLANK	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/01/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	87	65-140
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	6.6 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	84	51-148
Date Extracted	05/31/00	
Date Analyzed	06/01/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	129	59-132
Date Analyzed	06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 601				
Methylene Chloride	120/ 89/102	51-155	30	29
Chloroform	129/ 97/107	63-145	28	16
Carbon Tetrachloride	137/ 89/116	64-146	42	21
Trichloroethene	125/ 86/ 98	60-140	37	24
Tetrachloroethene	115/ 88/109	66-146	27	21
Chlorobenzene	121/101/113	70-137	18	19
EPA Method 602				
Benzene	116/ 91/ 97	60-138	24	17
Toluene	121/112/128	57-138	8	16
Ethylbenzene	125/116/128	49-144	7	17
o-Xylene	122/112/121	50-151	8	17
EPA Method 8021				
Benzene	80/ 76/ 79	59-144	5	25
Toluene	82/ 73/ 77	67-132	12	58
Ethylbenzene	72/ 71/ 74	60-169	1	28
o-Xylene	82/ 77/ 81	62-183	6	24
EPA Method 8310				
Naphthalene	81/ 77/ 69	59-111	5	12
Acenaphthene	98/ 93/ 78	58-128	5	13
Benzo(a)pyrene	111/101/ 90	78-134	9	15
Benzo(g,h,i)perylene	100/ 91/ 84	62-115	9	30

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

ENCO LABORATORIES
REPORT # : JAX11524
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8310				
Naphthalene	84/ 82/ 84	48-130	2	20
Acenaphthene	98/ 98/ 97	36-127	<1	17
Benzo(a)pyrene	94/106/ 79	64-141	12	22
Benzo(g,h,i)perylene	99/ 98/112	58-168	1	21
EPA Method 504				
Ethylene Dibromide	86/ 91/ 84	58-135	6	22
TOTAL METALS				
Lead, 200.7	96/ 98/102	68-126	2	19
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	79/ 85/ 83	51-163	7	27
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	88/ 89/ 81	62-204	1	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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Christine T. Resto

From: Christine T. Resto <cresto@encolabs.com>
To: Matthew Foti, Ph.D. <mfoti@encolabs.com>
Sent: Friday, June 09, 2000 3:27 PM
Subject: 8021/arom for ELLIS (Bayard Water Line)

We are sending the five soil samples to ORL tonight--they break hold tomorrow afternoon. Per our conversation, the client wants results by EOB on Thursday. Thanks for your help. Have fun tonight.

QSARF # _____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824-8529
Ph. (407) 826-5314 • Fax (407) 850-6945

1015 Passport Way
Cary, North Carolina 27513
Ph. (919) 677-1669 • Fax (919) 677-9846

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Mayport Naval Station Tank #203
PROJECT NO.: #2339
P.O. NUMBER:
PROJECT LOC. (State): FL
SAMPLER(S) NAME: Richard Moriarty
PHONE: (904) 241-2200
FAX: (904) 241-4732
CLIENT NAME: Environmental Recovery, Inc.
CLIENT PROJECT MANAGER: Mr Chuck Nevin
CLIENT ADDRESS (CITY, STATE, ZIP): 251 Levy Road, Atlantic Beach, Fla 32233
PAGE 1 OF 1

☐ 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: 601/602 (VOC's), 8310 (PAH's), EDB, FL-PRO, LEAD, 8020 (BTEX), 8310 (PAH's), FL-PRO

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID	AIR	SLUDGE	OTHER	601/602 (VOC's)	8310 (PAH's)	EDB	FL-PRO	LEAD	8020 (BTEX)	8310 (PAH's)	FL-PRO	REMARKS
															HCL 3	UN 1	UN 2	HNO3 2	HNO3 1	UN 3	UN 1	UN 1	
#1	5/30/00	11:15	X		CS-P1					X										X	X	X	Sample kits consist of:
2 #2	5/30/00	12:25	X		CS-P2					X										X	X	X	Soil: 3x5gm Encore
3 #3	5/30/00	13:30	X		CS-P3					X										X	X	X	1x4oz Glass UN
4																							
5																							GW: 2x40ml vials HCL (VOC's)
6 #1	5/30/00	14:10	X		TMW-P1		X								X	X	X	X	X				2x40ml vials UN (EDB)
7 #2	5/30/00	14:55	X		TMW-P2		X								X	X	X	X	X				1x1000ml glass UN (PAH)
8 #3	5/30/00	15:50	X		TMW-P3		X								X	X	X	X	X				2x1000ml glass HCL (FL-PRO)
9																							1x500ml Poly HNO3 (Pb)
10																							
11																							Sample containers sealed in
12																							Poly BAGS AND placed
13																							on wet ice for Transport.
14																							Samples HAND Delivered TO ENCO JAX

SAMPLE KIT PREPARED BY: ☐ JACKSONVILLE ☐ ORLANDO	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	5/30/00	820				Samples containers received from ERI by RM @ 09:30 5/30/00 with Custody Seals Intact	5/30/00	0930
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
	5/30/00	18:40						

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
☐ Jacksonville ☐ Orlando	5/30/00	1840	☐ YES ☐ NO	JAX11524	

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 # : JAX11568
DATE SUBMITTED: May 31, 2000
DATE REPORTED : June 12, 2000

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: 2339

Mayport Naval Station Tank #203

05/31/00

#1 - CS-P4 @ 09:30
#2 - CS-P5 @ 10:05
#3 - CS-P6 @ 10:40
#4 - CS-P7 @ 11:10
#5 - CS-P8 @ 11:40
#6 - TMW-P4 @ 14:40
#7 - TMW-P5 @ 15:20
#8 - TMW-P6 @ 16:00
#9 - TMW-P7 @ 16:40
#10 - TMW-P8 @ 17:15

PROJECT MANAGER _____
Scott D. Martin

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P4	Units
Methyl tert-butyl ether	5.0 U D1	µg/Kg
Benzene	2.2 U D1	µg/Kg
Toluene	2.2 U D1	µg/Kg
Chlorobenzene	2.2 U D1	µg/Kg
Ethylbenzene	2.2 U D1	µg/Kg
m-Xylene & p-Xylene	5.0 U D1	µg/Kg
o-Xylene	2.0 U D1	µg/Kg
1,3-Dichlorobenzene	2.0 U D1	µg/Kg
1,4-Dichlorobenzene	2.0 U D1	µg/Kg
1,2-Dichlorobenzene	2.0 U D1	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	101	28-165
Date Analyzed	06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P4	Units
Hydrocarbons (C8-C40)	7.7 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	90	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
D1 = Analyte value determined from a 1:1.89 dilution.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P4			Units
Naphthalene	740		D2	µg/Kg
Acenaphthylene	380	U	D2	µg/Kg
1-Methylnaphthalene	380	U	D2	µg/Kg
2-Methylnaphthalene	380	U	D2	µg/Kg
Acenaphthene	190	U	D2	µg/Kg
Fluorene	290		D2	µg/Kg
Phenanthrene	3900		D2	µg/Kg
Anthracene	77	U	D2	µg/Kg
Fluoranthene	9900		D2	µg/Kg
Pyrene	6900		D2	µg/Kg
Benzo(a)anthracene	2200		D2	µg/Kg
Chrysene	2800		D2	µg/Kg
Benzo(b)fluoranthene	38	U	D2	µg/Kg
Benzo(k)fluoranthene	38	U	D2	µg/Kg
Benzo(a)pyrene	1000		D2	µg/Kg
Dibenzo(a,h)anthracene	200		D2	µg/Kg
Benzo(g,h,i)perylene	410		D2	µg/Kg
Indeno(1,2,3-cd)pyrene	560		D2	µg/Kg

Surrogate:	% RECOV	LIMITS
p-terphenyl	74	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P4	Units
Percent Solids	SM2540G	86	%
Date Analyzed		06/04/00	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:10 dilution.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P5	Units
Methyl tert-butyl ether	5.0 U D3	µg/Kg
Benzene	2.3 U D3	µg/Kg
Toluene	2.3 U D3	µg/Kg
Chlorobenzene	2.3 U D3	µg/Kg
Ethylbenzene	2.3 U D3	µg/Kg
m-Xylene & p-Xylene	5.0 U D3	µg/Kg
o-Xylene	2.0 U D3	µg/Kg
1,3-Dichlorobenzene	2.0 U D3	µg/Kg
1,4-Dichlorobenzene	2.0 U D3	µg/Kg
1,2-Dichlorobenzene	2.0 U D3	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	50	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P5	Units
Hydrocarbons (C8-C40)	11 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	75	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P5	Units
Naphthalene	27 U	µg/Kg
Acenaphthylene	54 U	µg/Kg
1-Methylnaphthalene	54 U	µg/Kg
2-Methylnaphthalene	54 U	µg/Kg
Acenaphthene	27 U	µg/Kg
Fluorene	5.4 U	µg/Kg
Phenanthrene	54 U	µg/Kg
Anthracene	11 U	µg/Kg
Fluoranthene	5.4 U	µg/Kg
Pyrene	5.4 U	µg/Kg
Benzo(a)anthracene	16 U	µg/Kg
Chrysene	5.4 U	µg/Kg
Benzo(b)fluoranthene	5.4 U	µg/Kg
Benzo(k)fluoranthene	5.4 U	µg/Kg
Benzo(a)pyrene	5.4 U	µg/Kg
Dibenzo(a,h)anthracene	5.4 U	µg/Kg
Benzo(g,h,i)perylene	5.4 U	µg/Kg
Indeno(1,2,3-cd)pyrene	5.4 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	81	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P5	Units
Percent Solids	SM2540G	61	%
Date Analyzed		06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P6	Units
Methyl tert-butyl ether	4.0 U D4	µg/Kg
Benzene	1.8 U D4	µg/Kg
Toluene	1.8 U D4	µg/Kg
Chlorobenzene	1.8 U D4	µg/Kg
Ethylbenzene	1.8 U D4	µg/Kg
m-Xylene & p-Xylene	4.0 U D4	µg/Kg
o-Xylene	2.0 U D4	µg/Kg
1,3-Dichlorobenzene	2.0 U D4	µg/Kg
1,4-Dichlorobenzene	2.0 U D4	µg/Kg
1,2-Dichlorobenzene	2.0 U D4	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	66	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P6	Units
Hydrocarbons (C8-C40)	8.1 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	79	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
D4 = Analyte value determined from a 1:1.52 dilution.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P6	Units
Naphthalene	20 U	µg/Kg
Acenaphthylene	41 U	µg/Kg
1-Methylnaphthalene	41 U	µg/Kg
2-Methylnaphthalene	41 U	µg/Kg
Acenaphthene	20 U	µg/Kg
Fluorene	4.1 U	µg/Kg
Phenanthrene	41 U	µg/Kg
Anthracene	8.1 U	µg/Kg
Fluoranthene	52	µg/Kg
Pyrene	45	µg/Kg
Benzo(a)anthracene	15	µg/Kg
Chrysene	14	µg/Kg
Benzo(b)fluoranthene	4.1 U	µg/Kg
Benzo(k)fluoranthene	4.1 U	µg/Kg
Benzo(a)pyrene	4.1 U	µg/Kg
Dibenzo(a,h)anthracene	4.1 U	µg/Kg
Benzo(g,h,i)perylene	4.1 U	µg/Kg
Indeno(1,2,3-cd)pyrene	4.1 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	90	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P6	Units
Percent Solids	SM2540G	81	%
Date Analyzed		06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P7	Units
Methyl tert-butyl ether	6.0 U D5	µg/Kg
Benzene	3.0 U D5	µg/Kg
Toluene	**3.0** I D5	µg/Kg
Chlorobenzene	3.0 U D5	µg/Kg
Ethylbenzene	3.0 U D5	µg/Kg
m-Xylene & p-Xylene	6.0 U D5	µg/Kg
o-Xylene	3.0 U D5	µg/Kg
1,3-Dichlorobenzene	3.0 U D5	µg/Kg
1,4-Dichlorobenzene	3.0 U D5	µg/Kg
1,2-Dichlorobenzene	3.0 U D5	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	53	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P7	Units
Hydrocarbons (C8-C40)	7.1 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	85	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

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).
D5 = Analyte value determined from a 1:2.78 dilution.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P7	Units
Naphthalene	18 U	µg/Kg
Acenaphthylene	35 U	µg/Kg
1-Methylnaphthalene	35 U	µg/Kg
2-Methylnaphthalene	35 U	µg/Kg
Acenaphthene	18 U	µg/Kg
Fluorene	3.5 U	µg/Kg
Phenanthrene	35 U	µg/Kg
Anthracene	7.1 U	µg/Kg
Fluoranthene	10	µg/Kg
Pyrene	5.3	µg/Kg
Benzo(a)anthracene	11 U	µg/Kg
Chrysene	3.5 U	µg/Kg
Benzo(b)fluoranthene	3.5 U	µg/Kg
Benzo(k)fluoranthene	3.5 U	µg/Kg
Benzo(a)pyrene	3.5 U	µg/Kg
Dibenzo(a,h)anthracene	3.5 U	µg/Kg
Benzo(g,h,i)perylene	3.5 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.5 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	94	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P7	Units
Percent Solids	SM2540G	93	%
Date Analyzed		06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-P8	Units
Methyl tert-butyl ether	4.0 U D6	µg/Kg
Benzene	**2.7** I D6	µg/Kg
Toluene	2.2 U D6	µg/Kg
Chlorobenzene	2.2 U D6	µg/Kg
Ethylbenzene	2.2 U D6	µg/Kg
m-Xylene & p-Xylene	4.0 U D6	µg/Kg
o-Xylene	2.0 U D6	µg/Kg
1,3-Dichlorobenzene	2.0 U D6	µg/Kg
1,4-Dichlorobenzene	2.0 U D6	µg/Kg
1,2-Dichlorobenzene	2.0 U D6	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	63	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-P8	Units
Hydrocarbons (C8-C40)	7.1 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	88	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

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).
D6 = Analyte value determined from a 1:2.08 dilution.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-P8	Units
Naphthalene	18 U	µg/Kg
Acenaphthylene	35 U	µg/Kg
1-Methylnaphthalene	35 U	µg/Kg
2-Methylnaphthalene	35 U	µg/Kg
Acenaphthene	18 U	µg/Kg
Fluorene	3.5 U	µg/Kg
Phenanthrene	35 U	µg/Kg
Anthracene	7.1 U	µg/Kg
Fluoranthene	**11**	µg/Kg
Pyrene	**5.3**	µg/Kg
Benzo(a)anthracene	11 U	µg/Kg
Chrysene	3.5 U	µg/Kg
Benzo(b)fluoranthene	3.5 U	µg/Kg
Benzo(k)fluoranthene	3.5 U	µg/Kg
Benzo(a)pyrene	3.5 U	µg/Kg
Dibenzo(a,h)anthracene	3.5 U	µg/Kg
Benzo(g,h,i)perylene	3.5 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.5 U	µg/Kg

Surrogate:	% RECOV	LIMITS
p-terphenyl	98	39-141
Date Extracted	06/02/00	
Date Analyzed	06/06/00	

MISCELLANEOUS	METHOD	CS-P8	Units
Percent Solids	SM2540G	**93**	%
Date Analyzed		06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P4	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	90	37-161
Date Analyzed	06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P4	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	106	59-132
Date Analyzed	06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P4	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	**0.63**	µg/L
Fluorene	**0.16**	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	**0.41**	µg/L
Pyrene	**0.45**	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	109	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P4	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P4	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P4	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	75	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P5	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	101	37-161
Date Analyzed	06/03/00	

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

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REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P5	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	118	59-132
Date Analyzed	06/03/00	

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

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PROJECT NAME : Mayport Naval Station
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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P5	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	1.6	µg/L
Fluorene	0.61	µg/L
Phenanthrene	3.0	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	1.9	µg/L
Pyrene	1.4	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	103	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P5	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

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REFERENCE : 2339
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Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P5	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P5	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	80	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P6	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	103	37-161
Date Analyzed	06/03/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P6	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	118	59-132
Date Analyzed	06/03/00	

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

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Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P6	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	3.1	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	6.9	µg/L
Fluorene	1.2	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	1.7	µg/L
Pyrene	1.1	µg/L
Benzo(a)anthracene	0.16	µg/L
Chrysene	0.16	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	94	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P6	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

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REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P6	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P6	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	% RECOV	LIMITS
o-Terphenyl	89	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

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PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P7	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	100	37-161
Date Analyzed	06/03/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P7	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	117	59-132
Date Analyzed	06/03/00	

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

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PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P7	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	105	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P7	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

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PROJECT NAME : Mayport Naval Station
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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P7	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P7	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	83	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-P8	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	92	37-161
Date Analyzed	06/06/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-P8	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	107	59-132
Date Analyzed	06/06/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-P8	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	98	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-P8	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

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REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-P8	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-P8	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	74	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	100	37-161
Date Analyzed	06/03/00	

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

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REPORT # : JAX11568
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PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	131	59-132
Date Analyzed	06/03/00	

EPA METHOD 8021 - VOLATILE ORGANICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
Toluene	1.0 U	µg/Kg
Chlorobenzene	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
1,3-Dichlorobenzene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	89	28-165
Date Analyzed	06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L

Surrogate:	% RECOV	LIMITS
p-terphenyl	104	43-148
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

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REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	16 U	µg/Kg
Acenaphthylene	33 U	µg/Kg
1-Methylnaphthalene	33 U	µg/Kg
2-Methylnaphthalene	33 U	µg/Kg
Acenaphthene	16 U	µg/Kg
Fluorene	3.3 U	µg/Kg
Phenanthrene	33 U	µg/Kg
Anthracene	6.6 U	µg/Kg
Fluoranthene	3.3 U	µg/Kg
Pyrene	3.3 U	µg/Kg
Benzo(a)anthracene	9.9 U	µg/Kg
Chrysene	3.3 U	µg/Kg
Benzo(b)fluoranthene	3.3 U	µg/Kg
Benzo(k)fluoranthene	3.3 U	µg/Kg
Benzo(a)pyrene	3.3 U	µg/Kg
Dibenzo(a,h)anthracene	3.3 U	µg/Kg
Benzo(g,h,i)perylene	3.3 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.3 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	101	39-141
Date Extracted	06/02/00	
Date Analyzed	06/05/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	LAB BLANK	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/05/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	75	65-140
Nonatriacontane	62	71-139
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	6.6 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	99	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	95	37-161
Date Analyzed	06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	129	59-132
Date Analyzed	06/04/00	

EPA METHOD 8021 - VOLATILE ORGANICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
Toluene	1.0 U	µg/Kg
Chlorobenzene	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
1,3-Dichlorobenzene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	94	28-165
Date Analyzed	06/05/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	99	37-161
Date Analyzed	06/06/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	115	59-132
Date Analyzed	06/06/00	

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

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 601				
Methylene Chloride	120/ 89/102	51-155	30	29
Chloroform	129/ 97/107	63-145	28	16
Carbon Tetrachloride	137/ 89/116	64-146	42	21
Trichloroethene	125/ 86/ 98	60-140	37	24
Tetrachloroethene	115/ 88/109	66-146	27	21
Chlorobenzene	121/101/113	70-137	18	19
EPA Method 602				
Benzene	116/ 91/ 97	60-138	24	17
Toluene	121/112/128	57-138	8	16
Ethylbenzene	125/116/128	49-144	7	17
o-Xylene	122/112/121	50-151	8	17
EPA Method 8021				
Benzene	80/ 76/ 79	59-144	5	25
Toluene	82/ 73/ 77	67-132	12	58
Ethylbenzene	72/ 71/ 74	60-169	1	28
o-Xylene	82/ 77/ 81	62-183	6	24
EPA Method 8310				
Naphthalene	81/ 77/ 69	59-111	5	12
Acenaphthene	98/ 93/ 78	58-128	5	13
Benzo(a)pyrene	111/101/ 90	78-134	9	15
Benzo(g,h,i)perylene	100/ 91/ 84	62-115	9	30

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

ENCO LABORATORIES
REPORT # : JAX11568
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8310				
Naphthalene	84/ 82/ 84	48-130	2	20
Acenaphthene	98/ 98/ 97	36-127	<1	17
Benzo(a)pyrene	94/106/ 79	64-141	12	22
Benzo(g,h,i)perylene	99/ 98/112	58-168	1	21
EPA Method 504				
Ethylene Dibromide	120/110/112	58-135	9	22
TOTAL METALS				
Lead, 200.7	102/102/103	68-126	<1	19
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	81/ 81/ 79	51-163	<1	27
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	88/ 89/ 84	62-204	1	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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QSARF # _____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824-8529
Ph. (407) 826-5314 • Fax (407) 850-6945

1015 Passport Way
Cary, North Carolina 27513
Ph. (919) 677-1669 • Fax (919) 677-9846

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT REFERENCE: Mayport Naval Station Task #203
PROJECT NO.: ERI #2339
P.O. NUMBER:
PAGE 1 OF 1

PROJECT LOC. (State): Fl
SAMPLER(s) NAME: Richard Moriarty
PHONE: (904) 241-2700
FAX: (904) 241-4732

CLIENT NAME: Environmental Recovery Inc
CLIENT PROJECT MANAGER: Mr. Chuck Nevin
CLIENT ADDRESS (CITY, STATE, ZIP): 251 Levy Road Atlantic Beach, Fl 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: Lead (volatiles), 8310 (PAH's), 908, FL-Pro (GPH), Lead, 8020 (BTEX w/MTBE), 8310 (PAH), FL-Pro (TPH)

PRESERVATIVE / NUMBER OF CONTAINERS SUBMITTED

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID	AIR	SLUDGE	OTHER	HCL 2	UN 1	UN 2	H2SO4 2	HNO3		UN 3	UN 1	UN 1	REMARKS
1 #1	5/31/00	0930	X		CS-P4					X											X	X	X	Each sample kit consists of:
2 #2	5/31/00	10:05	X		CS-P5					X											X	X	X	Soil: 3x5gm Encore
3 #3	5/31/00	10:40	X		CS-P6					X											X	X	X	1x 4oz Glass (wp)
4 #4	5/31/00	11:10	X		CS-P7					X											X	X	X	
5 #5	5/31/00	11:40	X		CS-P8					X											X	X	X	GW: 2x40ml vials (HCL) (voc's
6																								2x40ml Vials (wp) (EDB)
7 #1	5/31/00	14:40	X		TMW-P4		X								X	X	X	X	X					1x1000ml Glass (wp) (PAH)
8 #2	5/31/00	15:20	X		TMW-P5		X								X	X	X	X	X					2x1000ml Glass (H2SO4)
9 #3	5/31/00	16:00	X		TMW-P6		X								X	X	X	X	X					1x500ml Poly (HNO3) (Pb
10 #4	5/31/00	16:40	X		TMW-P7		X								X	X	X	X	X					
11 #5	5/31/00	17:15	X		TMW-P8		X								X	X	X	X	X					Sample containers sealed in poly
12																								bags and placed on wet ice
13																								Samples HAND-Delivered to
14																								Enco Jax 5/31/00

SAMPLE KIT PREPARED BY:	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
X ☐ JACKSONVILLE ☐ ORLANDO	5/30/00	820				Sample containers RECEIVED FROM ERI by RM @ 0830 5/31/00 with custody intact - Richard Moriarty	5/31/00	0830
RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
RECEIVED BY: (SIGNATURE) Richard Moriarty	5/31/00	18:50	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
☐ Jacksonville ☐ Orlando	5/31/00	18:50	X YES ☐ NO	JAX 11568	

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 # : JAX11582
DATE SUBMITTED: June 1, 2000
DATE REPORTED : June 12, 2000

ATTENTION: Mr. Chuck Nevin

SAMPLE IDENTIFICATION

Samples submitted and
identified by client as:

PROJECT #: 2339

Mayport Naval Station Tank #203

06/01/00

#1 - CS-9 @ 09:35
#2 - CS-10 @ 10:00
#3 - CS-11 @ 10:30
#4 - CS-12 @ 10:50
#5 - CS-13 @ 12:55
#6 - TMW-9 @ 13:45
#7 - TMW-10 @ 14:30
#8 - TMW-11 @ 15:05
#9 - TMW-12 @ 15:45
#10 - TMW-13 @ 16:20

PROJECT MANAGER _____
Scott D. Martin

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-9	Units
Methyl tert-butyl ether	5.0 U D1	µg/Kg
Benzene	2.8 U D1	µg/Kg
Toluene	2.8 U D1	µg/Kg
Chlorobenzene	2.8 U D1	µg/Kg
Ethylbenzene	2.8 U D1	µg/Kg
m-Xylene & p-Xylene	5.0 U D1	µg/Kg
o-Xylene	2.0 U D1	µg/Kg
1,3-Dichlorobenzene	2.0 I D1	µg/Kg
1,4-Dichlorobenzene	2.0 U D1	µg/Kg
1,2-Dichlorobenzene	2.0 U D1	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	126	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-9	Units
Hydrocarbons (C8-C40)	8.2 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	79	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

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 1:2.17 dilution.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-9	Units
Naphthalene	21 U	µg/Kg
Acenaphthylene	41 U	µg/Kg
1-Methylnaphthalene	41 U	µg/Kg
2-Methylnaphthalene	41 U	µg/Kg
Acenaphthene	21 U	µg/Kg
Fluorene	4.1 U	µg/Kg
Phenanthrene	41 U	µg/Kg
Anthracene	8.2 U	µg/Kg
Fluoranthene	4.1 U	µg/Kg
Pyrene	4.1 U	µg/Kg
Benzo(a)anthracene	12 U	µg/Kg
Chrysene	4.1 U	µg/Kg
Benzo(b)fluoranthene	4.1 U	µg/Kg
Benzo(k)fluoranthene	4.1 U	µg/Kg
Benzo(a)pyrene	4.1 U	µg/Kg
Dibenzo(a,h)anthracene	4.1 U	µg/Kg
Benzo(g,h,i)perylene	4.1 U	µg/Kg
Indeno(1,2,3-cd)pyrene	4.1 U	µg/Kg

Surrogate:	% RECOV	LIMITS
p-terphenyl	91	39-141
Date Extracted	06/07/00	
Date Analyzed	06/09/00	

MISCELLANEOUS	METHOD	CS-9	Units
Percent Solids	SM2540G	80	%
Date Analyzed		06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-10	Units
Methyl tert-butyl ether	5.0 U D2	µg/Kg
Benzene	2.2 U D2	µg/Kg
Toluene	2.2 U D2	µg/Kg
Chlorobenzene	2.2 U D2	µg/Kg
Ethylbenzene	2.2 U D2	µg/Kg
m-Xylene & p-Xylene	5.0 U D2	µg/Kg
o-Xylene	2.0 U D2	µg/Kg
1,3-Dichlorobenzene	2.0 U D2	µg/Kg
1,4-Dichlorobenzene	2.0 U D2	µg/Kg
1,2-Dichlorobenzene	2.0 U D2	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	108	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-10	Units
Hydrocarbons (C8-C40)	7.7 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	89	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

U = Compound was analyzed for but not detected to the level shown.
D2 = Analyte value determined from a 1:1.92 dilution.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-10	Units
Naphthalene	19 U	µg/Kg
Acenaphthylene	38 U	µg/Kg
1-Methylnaphthalene	38 U	µg/Kg
2-Methylnaphthalene	38 U	µg/Kg
Acenaphthene	19 U	µg/Kg
Fluorene	3.8 U	µg/Kg
Phenanthrene	38 U	µg/Kg
Anthracene	7.7 U	µg/Kg
Fluoranthene	3.8 U	µg/Kg
Pyrene	3.8 U	µg/Kg
Benzo(a)anthracene	12 U	µg/Kg
Chrysene	3.8 U	µg/Kg
Benzo(b)fluoranthene	3.8 U	µg/Kg
Benzo(k)fluoranthene	3.8 U	µg/Kg
Benzo(a)pyrene	3.8 U	µg/Kg
Dibenzo(a,h)anthracene	3.8 U	µg/Kg
Benzo(g,h,i)perylene	3.8 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.8 U	µg/Kg

Surrogate:	% RECOV	LIMITS
p-terphenyl	80	39-141
Date Extracted	06/07/00	
Date Analyzed	06/09/00	

MISCELLANEOUS	METHOD	CS-10	Units
Percent Solids	SM2540G	86	%
Date Analyzed		06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-11	Units
Methyl tert-butyl ether	3.0 U D3	µg/Kg
Benzene	1.7 U D3	µg/Kg
Toluene	**14** D3	µg/Kg
Chlorobenzene	1.7 U D3	µg/Kg
Ethylbenzene	1.7 U D3	µg/Kg
m-Xylene & p-Xylene	**4.0** I D3	µg/Kg
o-Xylene	**2.0** I D3	µg/Kg
1,3-Dichlorobenzene	2.0 U D3	µg/Kg
1,4-Dichlorobenzene	2.0 U D3	µg/Kg
1,2-Dichlorobenzene	2.0 U D3	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	103	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-11	Units
Hydrocarbons (C8-C40)	7.2 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	79	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

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).
D3 = Analyte value determined from a 1:1.61 dilution.

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-11	Units
Naphthalene	18 U	µg/Kg
Acenaphthylene	36 U	µg/Kg
1-Methylnaphthalene	36 U	µg/Kg
2-Methylnaphthalene	36 U	µg/Kg
Acenaphthene	18 U	µg/Kg
Fluorene	3.6 U	µg/Kg
Phenanthrene	36 U	µg/Kg
Anthracene	7.2 U	µg/Kg
Fluoranthene	3.6 U	µg/Kg
Pyrene	3.6 U	µg/Kg
Benzo(a)anthracene	11 U	µg/Kg
Chrysene	3.6 U	µg/Kg
Benzo(b)fluoranthene	3.6 U	µg/Kg
Benzo(k)fluoranthene	3.6 U	µg/Kg
Benzo(a)pyrene	3.6 U	µg/Kg
Dibenzo(a,h)anthracene	3.6 U	µg/Kg
Benzo(g,h,i)perylene	3.6 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.6 U	µg/Kg

Surrogate:	% RECOV	LIMITS
p-terphenyl	97	39-141
Date Extracted	06/07/00	
Date Analyzed	06/09/00	

MISCELLANEOUS	METHOD	CS-11	Units
Percent Solids	SM2540G	92	%
Date Analyzed		06/04/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-12	Units
Methyl tert-butyl ether	4.0 U D2	µg/Kg
Benzene	2.2 U D2	µg/Kg
Toluene	**14** D2	µg/Kg
Chlorobenzene	2.2 U D2	µg/Kg
Ethylbenzene	2.2 U D2	µg/Kg
m-Xylene & p-Xylene	**4.0** I D2	µg/Kg
o-Xylene	**2.0** I D2	µg/Kg
1,3-Dichlorobenzene	2.0 U D2	µg/Kg
1,4-Dichlorobenzene	2.0 U D2	µg/Kg
1,2-Dichlorobenzene	2.0 U D2	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	85	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-12	Units
Hydrocarbons (C8-C40)	7.5 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	88	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

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).
D2 = Analyte value determined from a 1:1.92 dilution.

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-12	Units
Naphthalene	19 U	µg/Kg
Acenaphthylene	38 U	µg/Kg
1-Methylnaphthalene	38 U	µg/Kg
2-Methylnaphthalene	38 U	µg/Kg
Acenaphthene	19 U	µg/Kg
Fluorene	3.8 U	µg/Kg
Phenanthrene	38 U	µg/Kg
Anthracene	7.5 U	µg/Kg
Fluoranthene	3.8 U	µg/Kg
Pyrene	3.8 U	µg/Kg
Benzo(a)anthracene	11 U	µg/Kg
Chrysene	3.8 U	µg/Kg
Benzo(b)fluoranthene	3.8 U	µg/Kg
Benzo(k)fluoranthene	3.8 U	µg/Kg
Benzo(a)pyrene	3.8 U	µg/Kg
Dibenzo(a,h)anthracene	13	µg/Kg
Benzo(g,h,i)perylene	3.8 U	µg/Kg
Indeno(1,2,3-cd)pyrene	8.5	µg/Kg

Surrogate:	% RECOV	LIMITS
p-terphenyl	92	39-141
Date Extracted	06/07/00	
Date Analyzed	06/09/00	

MISCELLANEOUS	METHOD	CS-12	Units
Percent Solids	SM2540G	88	%
Date Analyzed		06/04/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 8021 - VOLATILE ORGANICS	CS-13	Units
Methyl tert-butyl ether	2.0 U D4	µg/Kg
Benzene	1.0 U D4	µg/Kg
Toluene	**5.0** I D4	µg/Kg
Chlorobenzene	1.4 U D4	µg/Kg
Ethylbenzene	1.4 U D4	µg/Kg
m-Xylene & p-Xylene	2.0 U D4	µg/Kg
o-Xylene	**1.0** I D4	µg/Kg
1,3-Dichlorobenzene	1.0 U D4	µg/Kg
1,4-Dichlorobenzene	1.0 U D4	µg/Kg
1,2-Dichlorobenzene	1.0 U D4	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	86	28-165
Date Analyzed	06/04/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	CS-13	Units
Hydrocarbons (C8-C40)	7.8 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	72	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

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).
D4 = Analyte value determined from a 1:1.25 dilution.

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	CS-13	Units
Naphthalene	19 U	µg/Kg
Acenaphthylene	39 U	µg/Kg
1-Methylnaphthalene	39 U	µg/Kg
2-Methylnaphthalene	39 U	µg/Kg
Acenaphthene	19 U	µg/Kg
Fluorene	3.9 U	µg/Kg
Phenanthrene	39 U	µg/Kg
Anthracene	7.8 U	µg/Kg
Fluoranthene	3.9 U	µg/Kg
Pyrene	3.9 U	µg/Kg
Benzo(a)anthracene	12 U	µg/Kg
Chrysene	3.9 U	µg/Kg
Benzo(b)fluoranthene	3.9 U	µg/Kg
Benzo(k)fluoranthene	3.9 U	µg/Kg
Benzo(a)pyrene	3.9 U	µg/Kg
Dibenzo(a,h)anthracene	3.9 U	µg/Kg
Benzo(g,h,i)perylene	3.9 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.9 U	µg/Kg

Surrogate:	% RECOV	LIMITS
p-terphenyl	101	39-141
Date Extracted	06/07/00	
Date Analyzed	06/10/00	

MISCELLANEOUS	METHOD	CS-13	Units
Percent Solids	SM2540G	85	%
Date Analyzed		06/04/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-9	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	102	37-161
Date Analyzed	06/03/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-9	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	132	59-132
Date Analyzed	06/03/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-9	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	107	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-9	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-9	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-9	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	90	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-10	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	**2.0** I	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	68	37-161
Date Analyzed	06/07/00	

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 602 - VOLATILE AROMATICS	TMW-10	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	95	59-132
Date Analyzed	06/07/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-10	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	86	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-10	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-10	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-10	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	90	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-11	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	90	37-161
Date Analyzed	06/06/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-11	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	109	59-132
Date Analyzed	06/06/00	

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

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RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-11	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	108	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-11	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

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REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
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RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-11	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-11	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	% RECOV	LIMITS
o-Terphenyl	59	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

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REFERENCE : 2339
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RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-12	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	69	37-161
Date Analyzed	06/07/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-12	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	97	59-132
Date Analyzed	06/07/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-12	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	107	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-12	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-12	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-12	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	68	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	TMW-13	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	91	37-161
Date Analyzed	06/06/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	TMW-13	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	116	59-132
Date Analyzed	06/06/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	TMW-13	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	105	43-148
Date Extracted	06/06/00	
Date Analyzed	06/08/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	TMW-13	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	TMW-13	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	TMW-13	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	85	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	100	37-161
Date Analyzed	06/03/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	131	59-132
Date Analyzed	06/03/00	

EPA METHOD 8021 - VOLATILE ORGANICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/Kg
Benzene	1.0 U	µg/Kg
Toluene	1.0 U	µg/Kg
Chlorobenzene	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
1,3-Dichlorobenzene	1.0 U	µg/Kg
1,4-Dichlorobenzene	1.0 U	µg/Kg
1,2-Dichlorobenzene	1.0 U	µg/Kg
Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	89	28-165
Date Analyzed	06/04/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	0.50 U	µg/L
Acenaphthylene	1.0 U	µg/L
1-Methylnaphthalene	1.0 U	µg/L
2-Methylnaphthalene	1.0 U	µg/L
Acenaphthene	0.50 U	µg/L
Fluorene	0.10 U	µg/L
Phenanthrene	1.0 U	µg/L
Anthracene	0.20 U	µg/L
Fluoranthene	0.10 U	µg/L
Pyrene	0.10 U	µg/L
Benzo(a)anthracene	0.10 U	µg/L
Chrysene	0.10 U	µg/L
Benzo(b)fluoranthene	0.10 U	µg/L
Benzo(k)fluoranthene	0.10 U	µg/L
Benzo(a)pyrene	0.10 U	µg/L
Dibenzo(a,h)anthracene	0.10 U	µg/L
Benzo(g,h,i)perylene	0.10 U	µg/L
Indeno(1,2,3-cd)pyrene	0.10 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	104	43-148
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 8310 - PAH BY HPLC	LAB BLANK	Units
Naphthalene	16 U	µg/Kg
Acenaphthylene	33 U	µg/Kg
1-Methylnaphthalene	33 U	µg/Kg
2-Methylnaphthalene	33 U	µg/Kg
Acenaphthene	16 U	µg/Kg
Fluorene	3.3 U	µg/Kg
Phenanthrene	33 U	µg/Kg
Anthracene	6.6 U	µg/Kg
Fluoranthene	3.3 U	µg/Kg
Pyrene	3.3 U	µg/Kg
Benzo(a)anthracene	9.9 U	µg/Kg
Chrysene	3.3 U	µg/Kg
Benzo(b)fluoranthene	3.3 U	µg/Kg
Benzo(k)fluoranthene	3.3 U	µg/Kg
Benzo(a)pyrene	3.3 U	µg/Kg
Dibenzo(a,h)anthracene	3.3 U	µg/Kg
Benzo(g,h,i)perylene	3.3 U	µg/Kg
Indeno(1,2,3-cd)pyrene	3.3 U	µg/Kg
Surrogate:	**% RECOV**	**LIMITS**
p-terphenyl	90	39-141
Date Extracted	06/07/00	
Date Analyzed	06/09/00	

EPA METHOD 504 - ETHYLENE DIBROMIDE	LAB BLANK	Units
Ethylene Dibromide	0.020 U	µg/L
Date Extracted	06/06/00	
Date Analyzed	06/06/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

TOTAL METALS	METHOD	LAB BLANK	Units
Lead	200.7	0.0050 U	mg/L
Date Analyzed		06/06/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	0.20 U	mg/L
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	75	65-140
Date Extracted	06/06/00	
Date Analyzed	06/07/00	

EPA METHOD FLPRO - PETROL. RESIDUAL ORG.	LAB BLANK	Units
Hydrocarbons (C8-C40)	6.6 U	mg/Kg
Surrogate:	**% RECOV**	**LIMITS**
o-Terphenyl	99	51-148
Date Extracted	06/07/00	
Date Analyzed	06/08/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	99	37-161
Date Analyzed	06/06/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	115	59-132
Date Analyzed	06/06/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

RESULTS OF ANALYSIS

EPA METHOD 601 - VOLATILE HALOCARBONS	LAB BLANK	Units
Dichlorodifluoromethane	1.0 U	µg/L
Chloromethane	2.0 U	µg/L
Vinyl Chloride	1.0 U	µg/L
Bromomethane	1.0 U	µg/L
Chloroethane	2.0 U	µg/L
Trichlorofluoromethane	2.0 U	µg/L
1,1-Dichloroethene	1.0 U	µg/L
Methylene Chloride	2.0 U	µg/L
t-1,2-Dichloroethene	1.0 U	µg/L
1,1-Dichloroethane	1.0 U	µg/L
c-1,2-Dichloroethene	1.0 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
1,2-Dichloroethane	1.0 U	µg/L
Trichloroethene	1.0 U	µg/L
1,2-Dichloropropane	1.0 U	µg/L
Bromodichloromethane	1.0 U	µg/L
c-1,3-Dichloropropene	1.0 U	µg/L
t-1,3-Dichloropropene	1.0 U	µg/L
1,1,2-Trichloroethane	1.0 U	µg/L
Tetrachloroethene	1.0 U	µg/L
Dibromochloromethane	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Bromoform	1.0 U	µg/L
1,1,2,2-Tetrachloroethane	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L

Surrogate:	% RECOV	LIMITS
Bromofluorobenzene	76	37-161
Date Analyzed	06/07/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

RESULTS OF ANALYSIS

EPA METHOD 602 - VOLATILE AROMATICS	LAB BLANK	Units
Methyl tert-butyl ether	2.0 U	µg/L
Benzene	1.0 U	µg/L
Toluene	1.0 U	µg/L
Chlorobenzene	1.0 U	µg/L
Ethylbenzene	1.0 U	µg/L
m-Xylene & p-Xylene	1.0 U	µg/L
o-Xylene	1.0 U	µg/L
1,3-Dichlorobenzene	1.0 U	µg/L
1,4-Dichlorobenzene	1.0 U	µg/L
1,2-Dichlorobenzene	1.0 U	µg/L
Surrogate:	**% RECOV**	**LIMITS**
Bromofluorobenzene	115	59-132
Date Analyzed	06/07/00	

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

ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station Tank #203

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 601				
Methylene Chloride	120/ 89/102	51-155	30	29
Chloroform	129/ 97/107	63-145	28	16
Carbon Tetrachloride	137/ 89/116	64-146	42	21
Trichloroethene	125/ 86/ 98	60-140	37	24
Tetrachloroethene	115/ 88/109	66-146	27	21
Chlorobenzene	121/101/113	70-137	18	19
EPA Method 602				
Benzene	116/ 91/ 97	60-138	24	17
Toluene	121/112/128	57-138	8	16
Ethylbenzene	125/116/128	49-144	7	17
o-Xylene	122/112/121	50-151	8	17
EPA Method 8021				
Benzene	80/ 76/ 79	59-144	5	25
Toluene	82/ 73/ 77	67-132	12	58
Ethylbenzene	72/ 71/ 74	60-169	1	28
o-Xylene	82/ 77/ 81	62-183	6	24
EPA Method 8310				
Naphthalene	81/ 77/ 69	59-111	5	12
Acenaphthene	98/ 93/ 78	58-128	5	13
Benzo(a)pyrene	111/101/ 90	78-134	9	15
Benzo(g,h,i)perylene	100/ 91/ 84	62-115	9	30

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

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ENCO LABORATORIES
REPORT # : JAX11582
DATE REPORTED: June 12, 2000
REFERENCE : 2339
PROJECT NAME : Mayport Naval Station
Tank #203

QUALITY CONTROL DATA

Parameter	% RECOVERY MS/MSD/LCS	ACCEPT LIMITS	% RPD MS/MSD	ACCEPT LIMITS
EPA Method 8310				
Naphthalene	80/ 83/ 77	48-130	4	20
Acenaphthene	91/ 95/ 86	36-127	4	17
Benzo(a)pyrene	91/ 93/ 79	64-141	2	22
Benzo(g,h,i)perylene	96/101/ 85	58-168	5	21
EPA Method 504				
Ethylene Dibromide	120/110/112	58-135	9	22
TOTAL METALS				
Lead, 200.7	105/104/106	68-126	<1	19
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	81/ 81/ 79	51-163	<1	27
PETROL. RESIDUAL ORG.				
Hydrocarbons (C8-C40)	88/ 89/ 84	62-204	1	25

Environmental Conservation Laboratories Comprehensive QA Plan #910190

< = Less Than
MS = Matrix Spike
MSD = Matrix Spike Duplicate
LCS = Laboratory Control Standard
RPD = Relative Percent Difference

This report shall not be reproduced except in full, without the written approval of the laboratory. Results for these procedures apply only to the samples as submitted.

QSARF # _____

ENVIRONMENTAL CONSERVATION LABORATORIES

4810 Executive Park Court, Suite 211
Jacksonville, Florida 32216-6069
Ph. (904) 296-3007 • Fax (904) 296-6210

10207 General Drive
Orlando, Florida 32824
Ph. (407) 826-5314 • Fax (407) 850-6945

ENCO CompQAP No.: 960038G/0

CHAIN OF CUSTODY RECORD

PROJECT NAME: Naval Station TANK # 203	PROJECT NO.: ERI #2339	P.O. NUMBER	PAGE 1 OF 1
PROJECT LOC.: FL	SAMPLER(s) NAME: Richard Moriarty	PHONE: (904) 241-2200 / FAX: (904) 241-4732	
CLIENT NAME: Environmental Recovery, Inc	CLIENT PROJECT MANAGER: MR Chuck Nevin		
CLIENT ADDRESS (CITY, STATE, ZIP): 251 Levy Road, Atlantic Beach, Florida 32233			

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

STATION	DATE	TIME	GRAB	COMP	SAMPLE IDENTIFICATION	SURFACE WATER	GROUND WATER	WASTEWATER	DRINKING WATER	SOIL/SOLID/SEDIMENT	NONAQUEOUS LIQUID	AIR	SLUDGE	OTHER	Volatiles (VOC's) HCL 2 UN 1	8310 (PAH's) UN	EDB UN	FL-PRO (TPH) H_2SO_4 2 HNO_3 2	LEAD	8020 (BTEX MTBE) UN 1	8310 (PAH) UN 1	FL-PRO (TPH) UN 1	REMARKS
#1	6/1/00	09:35	X		CS-9					X										X	X	X	Each Sample Kit consists of
#2	6/1/00	10:00	X		CS-10					X										X	X	X	Soil: 3x5gm Encores
#3	6/1/00	10:30	X		CS-11					X										X	X	X	1x 4oz Glass (unp)
#4	6/1/00	10:50	X		CS-12					X										X	X	X	
#5	6/1/00	12:55	X		CS-13					X										X	X	X	GW: 2x40ml vials (HCl) (VOC
																							2x40ml vials (unp) (EDB,
#1	6/1/00	13:45	X		TMW-9		X								X	X	X	X	X				1x1000ml glass (unp) PAH
#2	6/1/00	14:30	X		TMW-10		X								X	X	X	X	X				2x1000ml glass (H_2SO_4) TPH
#3	6/1/00	15:05	X		TMW-11		X								X	X	X	X	X				1x500ml poly (HNO_3) (Pb
#4	6/1/00	15:45	X		TMW-12		X								X	X	X	X	X				
#5	6/1/00	16:20	X		TMW-13		X								X	X	X	X	X				Sample Containers Sealed in
																							poly BAGS AND placed
																							Ice KE - (PM)
																							5

SAMPLE KIT PREPARED BY:	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
☐ JACKSONVILLE ☐ ORLANDO	5/30/00	0820	Sample Containers Hand Delivered to Enco JAX to ERI, Atlantic Beach with custody seals	(PM)		Sample Containers Received from ERI by RM on 5/30/00 with custody intact - Rich Moriarty	5/30/00	0930
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
Richard Moriarty	6/1/00	18:40						

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	ENCO LOG NO.	REMARKS
☐ Jacksonville ☐ Orlando	6/1/00	18:40	☒ YES ☐ NO	X0X11520X	Samples Hand Delivered to Enco, JAX (PM) 6/1/00

ATTACHMENT B

Well Sampling Field Logs

esa Well Sampling Log

Date: 5/30/00 Time: 13:45 Project Number: 621-2339

Site Location: Impact Fuel Farm - Tank #203

Well I.D. TMW-P1 Depth of well (from TOC) 8.10 ft Depth to water 5.97 ft

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

Well Diameter 2 in. Well Construction 5 ft. 0.01 in. slotted screen Casing Material PVC

Well Volume 1.4 gal Well Vol= 2.13 /H x _____ /r² x 0.163= 0.34 gal/vol

H= 8.10 /TD - 5.97 /DTW= 2.13 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: 13:56 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	.4					
2	.8		DREDGED	5	Volumes	
3	1.2					
4	1.6					
5	2.0					
Field Parameters		7.31	600	25.0	1.5	

Purge Stop Time: 14:30 Total gallons purged: 2.2

Sample Information:

Sample Collection Time: 14:10 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	602	6[illegible]	[illegible]	(Metals)		
Sample Containers	[illegible]	[illegible]	[illegible]	[illegible]		
pH of Preserved Samples	[illegible]	[illegible]	[illegible]	[illegible]		
Additional Preservative						

Product noted: None Odor noted: None 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 [illegible]

Field Personnel (name/title): [illegible]

Sample delivered to laboratory by: [illegible]

esa Well Sampling Log

ERI #

Date: 5/30/00 Time: 14:15 Project Number: 2339

Site Location: Mapport Field Trans - Tank #203

Well I.D. TMW-3L Depth of well (from TOC) 10.50 ft Depth to water 8.37 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 0.45 (0.5) gal Well Vol= 2.13 /H × 1 /r² × 0.163= 0.45 gal/vol

H= 10.50 /TD - 8.37 /DTW= 2.13 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: 14:39 Well Recharge Rate: Slow to moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	.5					
2	1.0					
3	1.5					
4	2.0					
5	2.5					
Field Parameters		7.75	249	25.6		

Purge Stop Time: 14:53 Total gallons purged: 2.5

Sample Information:

Sample Collection Time: 14:55 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	602	EDB	610	Filtrio	Metals	
Sample Containers	2x40ml VOA	2x40ml VOA	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	UN	UN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: ___ Color: Clear Turbidity: [illegible]

Comments: [illegible]

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 conductivity; HTC [illegible]

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ___ Conductivity: 447 ✓ Time/Date: 5/30/00

Ambient Conditions: [illegible]

Field Personnel (name/title): [illegible] / Environmental Scientist

Sample delivered to laboratory by: _____

F-5

esa Well Sampling Log

Date: 5/30/00 Time: 15:15 Project Number: 2339

Site Location: Mapart Fuel Farm - Tank #230

Well I.D. MW-13 Depth of well (from TOC) 7.60 ft Depth to water 5.66 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 0.33 gal Well Vol= 1.94 /H x 1 /r² x 0.163 = 0.326 gal/vol

H= 7.60 /TD - 5.66 /DTW= 1.94 ft

Well Type: ____upgradient ____downgradient ____ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.1 gal/min.

Purge Start Time: 15:27 Well Recharge Rate: Slow

163
326

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.4					
2	0.8					
3	1.2		Purged well			
4	1.6		5 Volumes			
5	2.0					
Field Parameters		9.70	400	76.0		

Purge Stop Time: 15:47 Total gallons purged: 2.0

Sample Information:

Sample Collection Time: 15:50 Sample Collected Using: Teflon B.

Order of Sampling	1	2	3	4	5	6
Sample Parameters	602	EDB	610	Phenols	metals	
Sample Containers	2x40ml Vials	2x40ml Vials	1x1000ml glass	2x1000ml glass	poly	
pH of Preserved Samples	HCL	UN	UN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Tannish Gray w/ purging Turbidity: Moderate

Comments: _____

Field Instrument Information:

Instruments Used: Orion #260 pH; #152 Conductivity w/ Digital Temp. of °C

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 5000 ✓ Time/Date: 5/30/00

Ambient Conditions: Warm 80°F, Partly Cloudy (Sunny)

Field Personnel (name/title): Robert Moody, Jay Newell

Sample delivered to laboratory by: Ann Parker

esa Well Sampling Log

Date: 5/31/00 Time: 14:20 Project Number: # 2339

Site Location: Playport Fuel Farm Tank # 203

Well I.D. MW-24 Depth of well (from TOC) 7.51 ft Depth to water 5.68 ft

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

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material pvc

Well Volume 0.32 (0.4) gal Well Vol= _____ /H x _____ /r^2 x 0.163= .32 gal/vol

H= 7.51 /TD - 5.68 /DTW= 1.83 ft

Well Type: ___upgradient ___downgradient ___ hot spot ~~Property~~ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.135 gal/min.

Purge Start Time: 14:23 Well Recharge Rate: Slow to moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.4					
2	0.8					
3	1.2		Purged well 5 volumes			
4	1.6					
5	2.0					
Field Parameters		7.53	488	25.9	14:45	

Purge Stop Time: 14:30 Total gallons purged: 2.0

Sample Information:

Sample Collection Time: 14:40 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	TPH(8310)	El Pro	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	VN	VN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Grey Turbidity: Hi (clearing w/ purging)

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 1412 ✓ Time/Date: 5/31/00 14:15

Ambient Conditions:

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

Sample delivered to laboratory by: [illegible]

P-5

esa Well Sampling Log

Date: 5/31/00 Time: 15:00 Project Number: ERI #2339

Site Location: Mayport Fuel Farm Tank # 203

Well I.D. MW-P5 Depth of well (from TOC) 7.12 ft Depth to water 5.52 ft

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

Well Diameter 2 in. Well Construction 5 ft. 0.010 in. slotted screen Casing Material PVC

Well Volume .025 gal Well Vol= _____ /H × _____ /r^2 × 0.163= .25 gal/vol

H= 7.12 /TD - 5.52 /DTW= 1.60 ft

Well Type: ___upgradient ___downgradient ___ hot spot Property other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.1 gal/min.

Purge Start Time: 15:02 Well Recharge Rate: Slow to moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.25					
2	0.5					
3	0.75					
4	1.0					
5	1.25					
Field Parameters		7.48	441	27.0	1524	

Purge Stop Time: 15:15 Total gallons purged: 1.5

Sample Information:

Sample Collection Time: 15:20 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	PAH (8310)	Fl Pb	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	vn	vn	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: _____ Color: Grey Turbidity: Hi (cloudy w/ purge)

Comments: _____

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ___ Conductivity: 1412 ✓ Time/Date: 5/31/00 14:15

Ambient Conditions: _____

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

Sample delivered to laboratory by: Hand Delivered

Y-6

esa Well Sampling Log

Date: 5/31/00 Time: 15:40 Project Number: 7339

Site Location: Mayport Fuel Farm Tank # 203

Well I.D. TMW-PG Depth of well (from TOC) 7.35 ft Depth to water 5.54 ft

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

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material pvc

Well Volume 0.3 gal Well Vol= 1.81 /H × 1 /r² × 0.163= 0.3 gal/vol

H= 7.35 /TD - 5.54 /DTW= 1.81 ft

Well Type: ___ upgradient ___ downgradient ___ hot spot Temporary other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.15 gal/min.

Purge Start Time: 1544 Well Recharge Rate: Good

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.3					
2	0.6					
3	0.9					
4	1.2					
5	1.5					
Field Parameters		7.27	394	26.8	1604	

Purge Stop Time: 1558 Total gallons purged: 2.0

Sample Information:

Sample Collection Time: 16:00 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	TPH(8310)	Fe Mn	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	NN	NN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Mostly Clear Turbidity: low to moderate (Turbidity Every w/ Sampling)

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp.

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ___ Conductivity: 1413 ✓ Time/Date: 5/31/00 14:15

Ambient Conditions:

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

Sample delivered to laboratory by: [signature]

esa **Well Sampling Log**

Date: 5/31/00 Time: 16:15 Project Number: 2339

Site Location: Mayport Fuel Farm Tank # 203

Well I.D. TMW-P7 Depth of well (from TOC) 7.20 ft Depth to water 5.76 ft

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

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material PVC

Well Volume 0.25 gal Well Vol= 1.44 /H × 1 /r² × 0.163= 0.23 gal/vol

H= 7.20 /TD - 5.76 /DTW= 1.44 ft

Well Type: ___upgradient ___downgradient ___ hot spot Perpendicular other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.1 gal/min.

Purge Start Time: 16:20 Well Recharge Rate: Slow

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.25					
2	0.50		Purged well 5 volumes			
3	0.75					
4	1.0					
5	1.25					
Field Parameters		7.47	498	26.4	16:45	

Purge Stop Time: 1635 Total gallons purged: 1.5

Sample Information:

Sample Collection Time: 16:40 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	PAH (8310)	El Pro	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	VN	VN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Mostly Clear Turbidity: moderate

Comments: _____

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ___ Conductivity: 1413 ✓ Time/Date: 5/31/00 14:15

Ambient Conditions: _____

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

Sample delivered to laboratory by: Hand Delivered (RM)

91,40

esa Well Sampling Log

Date: 5/31/00 Time: 16:45 Project Number: # ERI 2339

Site Location: Mayport Fuel Farm Tank # 203

Well I.D. MW-P8 Depth of well (from TOC) 7.20 ft Depth to water 5.78 ft

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

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material pvc

Well Volume 0.3 gal Well Vol= 1.42 /H x 1 /r² x 0.163= 0.3 gal/vol

H= 7.20 /TD - 5.78 /DTW= 1.42 ft

Well Type: ___upgradient ___downgradient ___ hot spot Property other

Longitude ____ Latitude ____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.1 gal/min.

Purge Start Time: 1652 Well Recharge Rate: Slow

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.3					
2	0.6					
3	0.9		Purged well 5 volumes			
4	1.2					
5	1.5					
Field Parameters		7.48	488	26.6	17:18	

Purge Stop Time: 17:12 Total gallons purged: 2.0

Sample Information:

Sample Collection Time: 17:15 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	PAH (8310)	Fl Pr	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	vn	vn	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: No Odor noted: No Color: Grey (cleaning up progress) Turbidity: Hi

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 147 ✓ Time/Date: ____

Ambient Conditions:

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

Sample delivered to laboratory by: Hand Delivered

TMW - 1 [illegible]

esa Well Sampling Log

Date: 6/1/00 Time: 13:20 Project Number: ERI #2379

Site Location: Mayport Fuel Farm Tank # 203

Well I.D. TMW-9 Depth of well (from TOC) 7.67 ft Depth to water 5.29 ft

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

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material PVC

Well Volume 0.4 gal Well Vol= 2.38 /H x 1 /r² x 0.163= 0.4 gal/vol

H= 7.67 /TD - 5.29 /DTW= 2.38 ft

Well Type: ___upgradient ___downgradient ___ hot spot Property other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.1 gal/min.

Purge Start Time: 13:25 Well Recharge Rate: Moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.4					
2	0.8		9.9	5 Volumes		
3	1.2					
4	1.6					
5	2.0					
Field Parameters		7.23	566	27.1	13:50	

Purge Stop Time: 13:43 Total gallons purged: 2.2

Sample Information:

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

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	TPH(8310)	Fl Pro	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	NN	NN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Grey, clearing w/ Purging Turbidity: Hi

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 1413 ✓ Time/Date: 6/1/00 1278

Ambient Conditions:

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

Sample delivered to laboratory by: Hand Delivered

IMW-10 (South) Cent

esa Well Sampling Log

Date: 6/01/00 Time: 13:05 Project Number: ERI #2339

Site Location: Mayport Fuel Farm Tank #203

Well I.D. IMW-10 Depth of well (from TOC) 7.47 ft Depth to water 4.52 ft

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

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material PVC

Well Volume 0.48 (4.5) gal Well Vol= 2.95 /H × 1 /r² × 0.163= .48 gal/vol

H= 7.47 /TD - 4.52 /DTW= 2.95 ft

Well Type: ___upgradient ___downgradient ___ hot spot Perpendicular other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.15 gal/min.

Purge Start Time: 13:08 Well Recharge Rate: Moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.5					
2	1.0					
3	1.5		Purged Well 5 volumes			
4	2.0					
5	2.5					
Field Parameters		7.43	518	27.1	1434	

Purge Stop Time: 14:26 Total gallons purged: 2.7

Sample Information:

Sample Collection Time: 14:30 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	PAH (8310)	Fl Pr	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	NN	NN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: _____ Color: Gray, Cloudy w/ bubbles Turbidity: _____

Comments: _____

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 _____ Conductivity: 1147 ✓ Time/Date: 6/1/00 1218

Ambient Conditions: _____

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

Sample delivered to laboratory by: Fed Ex

TMW-11 (East Center)

esa Well Sampling Log

Date: 6/1/00 Time: 14:40 Project Number: ERI #7339

Site Location: Mayport Fuel Farm Tank # 203

Well I.D. TMW-11 Depth of well (from TOC) 7.11 ft Depth to water 4.91 ft

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

Well Diameter 2 in. Well Construction 5 ft 0.010 in. slotted screen Casing Material PVC

Well Volume 0.4 gal Well Vol= _____ /H x _____ /r² x 0.163= 0.36 gal/vol

H= 7.11 /TD - 4.91 /DTW= _____ ft

Well Type: ___upgradient ___downgradient ___ hot spot ~~Temporary~~ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.15 gal/min.

Purge Start Time: 14:47 Well Recharge Rate: Slow Foreseeable

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.4					
2	0.8		purged well 5	volumes		
3	1.2					
4	1.6					
5	2.0					
Field Parameters		7.41	557	27.8		

Purge Stop Time: 15:02 Total gallons purged: 2.25

Sample Information:

Sample Collection Time: 15:05 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	TPH (8310)	Fl Pro	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	NN	NN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Gray, cloudy w/ orange Turbidity: Hi

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH; #130 Conductivity w/ ATC and Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 _____ Conductivity: 1412 ✓ Time/Date: 6/1/00 12:18

Ambient Conditions: Warm (85°F) Sunny Clear Wind 5-10 NE

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

Sample delivered to laboratory by: [signature]

TMW-12 (west) Cell

esa Well Sampling Log

Date: 6/1/00 Time: 15:45 Project Number: ERI # 2379

Site Location: Munger

Well I.D. TMW-12 Depth of well (from TOC) 7.48 ft Depth to water 4.49 ft

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

Well Diameter 2 in. Well Construction 5 ft. 40 in. slotted screen Casing Material PVC

Well Volume 9.5 gal Well Vol= 2.99 /H x 1 /r² x 0.163= 0.49 gal/vol

H= 7.48 /TD - 4.49 /DTW= 2.99 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information:

Purging eqpt: Peristaltic Pump Purge rate: 0.15 gal/min.

Purge Start Time: 15:22 Well Recharge Rate: Minimal

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	0.5					
2	1.0					
3	1.5		Purged half			
4	2.0		5	Volumes		
5	2.5					
Field Parameters		7.46	561	28.0	1550	

Purge Stop Time: 1547 Total gallons purged: 2.6

Sample Information:

Sample Collection Time: 15:45 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	8310	F/Pro	Lead	
Sample Containers	2x40ml vials	2x40ml vials	1x1000ml glass	2x1000ml glass	1x500ml poly	
pH of Preserved Samples	HCl	UN	UN	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Gray (Clearing w/ purging) Turbidity: Hi

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH, #130 Conductivity w/ ATC + Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 447 ✓ Time/Date: 6/1/00 12:18

Ambient Conditions: Warm (85°F) Sunny, Clear Wind 5-10 NE

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

Sample delivered to laboratory by: Hand Delivered

Center

esa Well Sampling Log

Date: 6/1/00 Time: 1555 Project Number: Edl # 2339

Site Location: Mapest Mart Station Emd Pmp

Well I.D. TMW-7B Depth of well (from TOC) 7.40 ft Depth to water 4.87 ft

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

Well Diameter 2 in. Well Construction 5 ft. 0.010 in. slotted screen Casing Material pvc

Well Volume 0.4 gal Well Vol= 2.41 /H × 1 /r² × 0.163= 0.39 gal/vol

H= 7.40 /TD - 4.99 /DTW= 2.41 ft

Well Type: ___upgradient ___downgradient ___ hot spot _____ other

Longitude _____ Latitude _____

Purge Information: Static 1.47

Purging eqpt: Peristaltic Pump Purge rate: 0.15 gal/min.

Purge Start Time: 16:00 Well Recharge Rate: Moderate

Volume	Gallons	pH	Conductivity	Temp. (°C)	Time	Other
1	.4					
2	0.8		Purged well 5 volumes			
3	1.2					
4	1.6					
5	2.0					
Field Parameters		7.45	553	26.4		

Purge Stop Time: 16:15 Total gallons purged: 2.2

Sample Information:

Sample Collection Time: 1620 Sample Collected Using: Teflon Bailer

Order of Sampling	1	2	3	4	5	6
Sample Parameters	601/602	EDB	8310	Pro	Pb	
Sample Containers	2x40ml vials	2x40ml vials	1x100ml glass	2x100ml glass	1x500ml poly	
pH of Preserved Samples	HCl	N/A	N/A	H_2SO_4	HNO_3	
Additional Preservative						

Product noted: None Odor noted: None Color: Very Cloudy w/ purging Turbidity: Moderate

Comments:

Field Instrument Information:

Instruments Used: Orion #260 pH #130 conductivity w/ ATC + Digital Temp

Calibration: pH 4.0 ✓ 7.0 ✓ 10.0 ____ Conductivity: 447 ✓ Time/Date: 6/1/00 12:18

Ambient Conditions: Warm (85°F) Sunny, Clear, Wind 5-10 NE

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

Jay Neuman - Environmental Technician

Sample delivered to laboratory by: Hand Delivery