

N60200.AR.001284  
NAS CECIL FIELD, FL  
5090.3a

CONFIRMATORY SAMPLING REPORT FOR BUILDING 193 TANK G193 BASE  
REALIGNMENT AND CLOSURE UNDERGROUND STORAGE TANK AND ABOVEGROUND  
STORAGE TANK GREY SITES NAS CECIL FIELD FL  
5/1/1998  
ABB ENVIRONMENTAL SERVICES INC

**CONFIRMATORY SAMPLING REPORT**  
**BUILDING 193, TANK G193**  
**BASE REALIGNMENT AND CLOSURE**  
**UNDERGROUND STORAGE TANK AND**  
**ABOVEGROUND STORAGE TANK GREY SITES**  
**NAVAL AIR STATION CECIL FIELD**  
**JACKSONVILLE, FLORIDA**

**Unit Identification Code: N60200**

**Contract No.: N62467-89-D-0317/131**

**Prepared by:**

**ABB Environmental Services, Inc.**  
**2590 Executive Center Circle, East**  
**Tallahassee, Florida 32301**

**Prepared for:**

**Department of the Navy, Southern Division**  
**Naval Facilities Engineering Command**  
**2155 Eagle Drive**  
**North Charleston, South Carolina 29418**

**Bryan Kizer, Code 1842, Engineer-in-Charge**

**May 1998**



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Naval Air Station Cecil Field  
Jacksonville, Florida

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## GLOSSARY

ABB-ES	ABB Environmental Services, Inc.
ISI	Innovative Services International, Inc.
OVA	organic vapor analyzer

## 1.0 INTRODUCTION

ABB Environmental Services, Inc. (ABB-ES), under contract to the Southern Division, Naval Facilities Engineering Command, has completed the confirmatory sampling for Tank G193 at Naval Air Station Cecil Field in Jacksonville, Florida. This report summarizes the related field operations, results, conclusions, and recommendations of the confirmatory sampling.

Tank G193 was an underground storage tank located east of Building 193. Building 193 is located off of Perimeter Road near the southern end of the north-south runway (Figure 1). The building consists of two rooms. One room houses the standby generator for the southeastern runway lights, and the other is used as a storage facility (ABB-ES, 1994).

Tank G193 had a 250-gallon capacity and was used to store diesel fuel for the standby generator (ABB-ES, 1997). This tank was removed by Innovative Services International, Inc. (ISI) on November 16, 1995 (ISI, 1995). A closure assessment report (Appendix A) was prepared for Tank G193 and submitted to the Florida Department of Environmental Protection (ISI, 1995). The closure assessment report indicated that excessively contaminated soil was present at the site but did not indicate whether or not excessively contaminated soil was removed. Analytical laboratory results of groundwater sampled during the closure assessment did not exceed allowable State target levels. To evaluate the current soil conditions, further soil screening was recommended.

A Contamination Assessment Plan for the assessment of soil at the Tank G193 site was prepared by ABB-ES in November 1996 (ABB-ES, 1996).

## 2.0 FIELD INVESTIGATION

The confirmatory sampling at the Tank G193 site was initiated in June 1997 and included the advancement of five soil borings to the water table. Soil samples were collected at depth intervals of 1 foot below land surface and every 2 feet thereafter to the water table. These samples were screened for hydrocarbon vapors with an organic vapor analyzer (OVA).

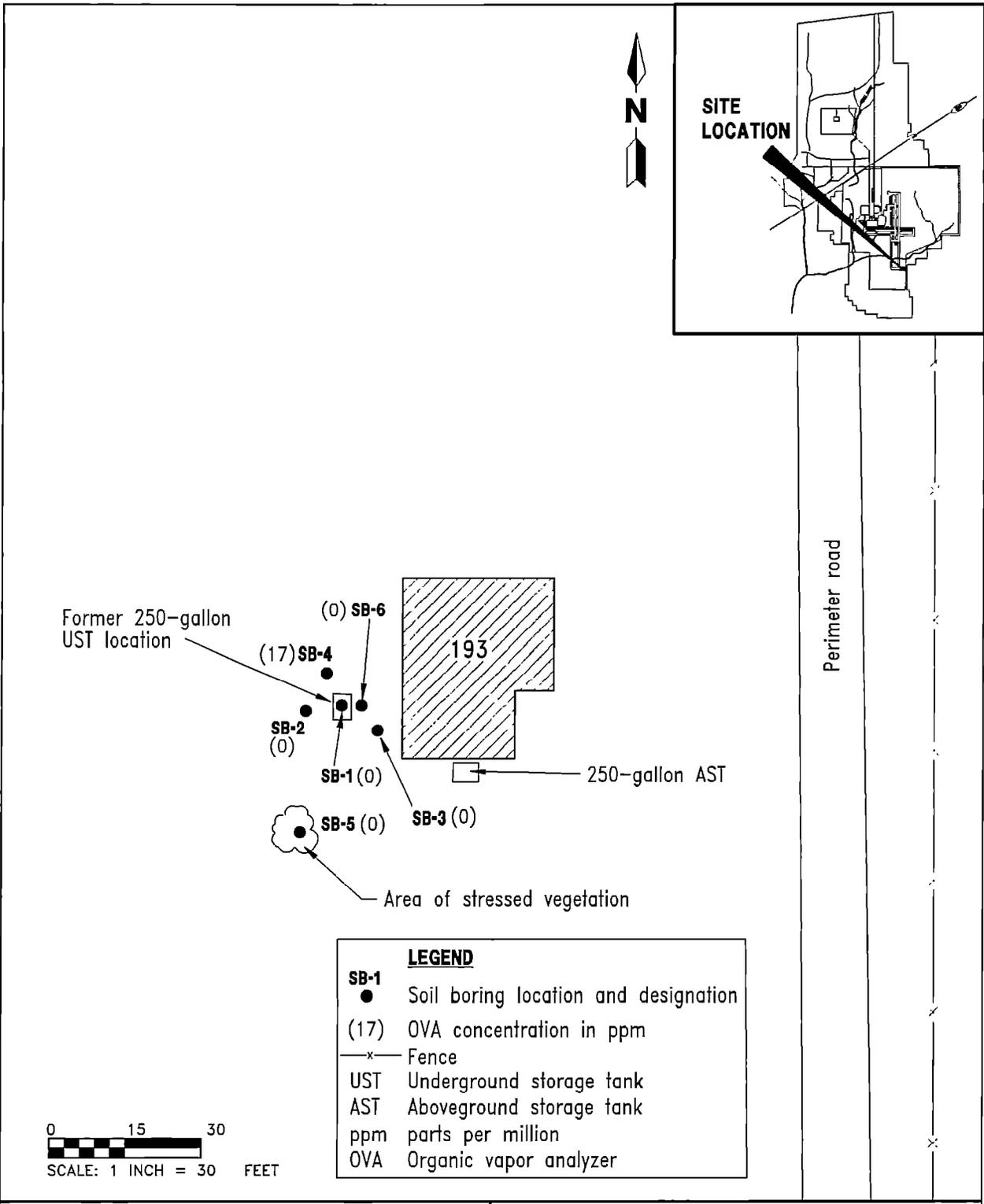
## 3.0 SCREENING AND ANALYTICAL RESULTS

Excessively contaminated soil was not detected in soil samples collected from the unsaturated zone during the confirmatory sampling. The soil OVA data collected during the confirmatory sampling are summarized in Table 1 and presented on Figure 1.

Groundwater analytical detections from one groundwater sample, which was collected during the closure assessment, are summarized in Table 2.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

Data obtained during the confirmatory sampling at the Tank G193 site do not indicate the presence of contaminated soil. During the closure assessment, lead



**FIGURE 1**  
**TANK G193**  
**STANDBY GENERATOR FOR RUNWAY LIGHTS**



**CONFIRMATORY SAMPLING REPORT**  
**BUILDING 193, TANK G193**

**NAVAL AIR STATION CECIL FIELD**  
**JACKSONVILLE, FLORIDA**

K:\02549\02549-03\CAR\02549534 DWG, MAW-PDP 03/03/98 11.44:17, AutoCAD R12

was detected in groundwater at concentrations exceeding cleanup target levels; however, lead is not a component of diesel fuel, and elevated levels may be the result of turbidity in the groundwater sample. No other contaminants were detected above regulatory standards specified in Chapter 62-770, Florida Administrative Code, in the groundwater sample collected during the closure assessment (ISI, 1995). Therefore, no further action is recommended for the Tank G193 site.

**Table 1  
Soil Screening Results**

Confirmatory Sampling Report  
Building 193, Tank G193  
Naval Air Station Cecil Field  
Jacksonville, Florida

Location	OVA Concentration (ppm)			
	Depth (feet bls)	Unfiltered	Filtered	Actual
SB-1	1	0	-	0
	3	0	-	0
	5	0	-	0
	7	0	-	0
	9 (wet)	0	-	0
SB-2	1	0	-	0
	3	0	-	0
	5	0	-	0
	7	0	-	0
SB-3	1	0	-	0
	3	0	-	0
	5	0	-	0
	7	0	-	0
SB-4	1	0	-	0
	3	0	-	0
	5	0	-	0
	7	17	0	17
SB-5	1	0	-	0
	3	0	-	0
	5	0	-	0
	7	0	-	0
	8.5 (wet)	0	-	0

Notes: All soil samples were collected on June 3, 1997.  
Soil samples were filtered with carbon to determine the methane concentration.

OVA = organic vapor analyzer.  
ppm = parts per million.  
bls = below land surface.  
- = filtered readings were not collected.  
wet = soil sample was completely saturated when analyzed.

**Table 2**  
**Summary of Groundwater Analytical Detections**

Confirmatory Sampling Report  
 Building 193, Tank G193  
 Naval Air Station Cecil Field  
 Jacksonville, Florida

Compound	ISI Closure Assessment Temporary Well	Groundwater Cleanup Target Levels <sup>1</sup>
<b><u>Volatile Organic Aromatics (USEPA Method 601/602) (<math>\mu\text{g}/\ell</math>)</u></b>		
No compounds detected.		
<b><u>Polynuclear Aromatic Hydrocarbons (USEPA Method 610) (<math>\mu\text{g}/\ell</math>)</u></b>		
No compounds detected.		
<b><u>Total Recoverable Petroleum Hydrocarbons (TRPH) (USEPA Method 418.1) (mg/<math>\ell</math>)</u></b>		
TRPH	2.16	5
<b><u>Lead (USEPA Method 239.2) (<math>\mu\text{g}/\ell</math>)</u></b>		
Lead	129	5
<sup>1</sup> Chapter 62-770, Florida Administrative Code.  Notes: Groundwater samples were collected on November 16, 1995 by ISI, during the closure assessment.  USEPA = U.S. Environmental Protection Agency. $\mu\text{g}/\ell$ = micrograms per liter. mg/ $\ell$ = milligrams per liter. ISI = Innovative Services International, Inc.		

## REFERENCES

- ABB Environmental Services, Inc. (ABB-ES). 1994. *Base Realignment and Closure Environmental Baseline Survey Report, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for Southern Division, Naval Facilities Engineering Command (SOUTHNAVFACENGCOC), North Charleston, South Carolina (November).
- ABB-ES. 1996. *Contamination Assessment Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOC, North Charleston, South Carolina (November).
- ABB-ES. 1997. *Base Realignment and Closure Tank Management Plan, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOC, North Charleston, South Carolina (January).
- Innovative Services International, Inc. 1995. *Closure Report for Underground Storage Tank Removals, Naval Air Station Cecil Field, Jacksonville, Florida*. Prepared for SOUTHNAVFACENGCOC, North Charleston, South Carolina.

**APPENDIX A**  
**CLOSURE ASSESSMENT REPORT**



# Closure Assessment Form

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storage system closure assessment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type  
 Complete All Applicable Blanks

1. Date: November 27, 1995
2. DER Facility ID Number: N/A      3. County: Duval
4. Facility Name: N.A.S. Cecil Field - Building #193
5. Facility Owner: U.S. Navy
6. Facility Address: Building #193, Perimeter Road, N.A.S. Cecil Field
7. Mailing Address: Naval Air Station - Cecil Field
8. Telephone Number: (\_\_\_\_) \_\_\_\_\_      9. Facility Operator: U.S. Navy
10. Are the Storage Tank(s): (Circle one or both)    A. Aboveground    or     B. Underground
11. Type of Product(s) Stored: Diesel Fuel
12. Were the Tank(s): (Circle one)    A. Replaced     B. Removed    C. Closed in Place    D. Upgraded (aboveground tanks only)
13. Number of Tanks Closed: One (1)      14. Age of Tanks: Unknown

## Facility Assessment Information

- | Yes                                 | No                                  | Not Applicable                      |   |
|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     | 1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?   |
| <input type="checkbox"/>            | <input type="checkbox"/>            |                                     | 2. Was a Discharge Reporting Form submitted to the Department?<br>If yes, When: _____ Where: _____  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     | 3. Is the depth to ground water less than 20 feet?  |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 4. Are monitoring wells <u>present</u> around the storage system?<br>If yes, specify type: <input type="checkbox"/> Water monitoring <input type="checkbox"/> Vapor monitoring  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 5. Is there <u>free</u> product present in the monitoring wells or within the excavation?   |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline?<br>Specify sample type: <input type="checkbox"/> Vapor Monitoring wells <input type="checkbox"/> Soil sample(s)                  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene?<br>Specify sample type: <input type="checkbox"/> Vapor Monitoring wells <input checked="" type="checkbox"/> Soil sample(s) |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target level?<br>(See target levels on reverse side of this form and supply laboratory data sheets)                                  |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?   |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 10. Are any potable wells located within 1/4 of a mile radius of the facility?  |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     | 11. Is there a surface water body within 1/4 mile radius of the site? If yes, indicate distance: <u>± 1000' A</u>   |

Form No.	17-761.900(1)
Form Title	Closure Assessment Form
Effective Date	December 10, 1990
DEP Approval No.	Filed in By

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample locations, and dispenser locations must accompany this form.
13. If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.
14. Amount of soils removed and receipt of proper disposal.
15. If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.
16. A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

\_\_\_\_\_  
Signature of Owner

\_\_\_\_\_  
*[Handwritten Signature]*  
Signature of Person Performing Assessment

\_\_\_\_\_  
Professional Geologist  
Title of Person Performing Assessment

\_\_\_\_\_  
Date

\_\_\_\_\_  
11/27/95  
Date

### State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. For gasoline (EPA Method 602):             <ol style="list-style-type: none"> <li>a. Benzene                      1 ug/l</li> <li>b. Total VOA                    50 ug/l                 <ul style="list-style-type: none"> <li>- Benzene</li> <li>- Toluene</li> <li>- Total Xylenes</li> <li>- Ethylbenzene</li> </ul> </li> <li>c. Methyl Tertiary-Butyl Ether (MTBE)            50 ug/l</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>2. For kerosene/diesel (EPA Method 610):             <ol style="list-style-type: none"> <li>a. Polynuclear Aromatic Hydrocarbons (PAHS)<br/>(Best achievable detection limit, 10 ug/l maximum)</li> </ol> </li> </ol> |
|---|--|



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # 17-761.900(5)
Underground Storage Tank Installation & Removal Form for Certified Contractors
Effective Date: December 10, 1990
DER Application No. (Filled in by DER)

Underground Storage Tank Installation and Removal Form
For Certified Contractors

Pollutant Storage System Specialty Contractors as defined in Section 489.113, Florida Statutes (Certified contractors as defined in Section 17-761.200, Florida Administrative Code) shall use this form to certify that the installation, replacement or removal of the storage tank system(s) located at the address listed below was performed in accordance with Department Reference Standards.

General Facility Information

- 1. DER Facility Identification No.: N/A
2. Facility Name: N.A.S. Cecil Field, Building #193 Telephone: ( )
3. Street Address (physical location): Building #193, Perimeter Road, N.A.S. Cecil Field Jacksonville, FL
4. Owner Name: United States Navy Telephone: ( )
5. Owner Address: Naval Air Station - Cecil Field
6. Number of Tanks: a. Installed at this time b. Removed at this time One (1)
7. Tank(s) Manufactured by: Unknown
Date Work Initiated: 9. Date Work Completed:

Underground Pollutant Tank Installation Checklist

Please certify the completion of the following installation requirements by placing an (X) in the appropriate box.

- 1. The tanks and piping are corrosion resistant and approved for use by State and Federal Laws.
2. Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87), API (American Petroleum Institute) 1615, PEI (Petroleum Equipment Institute) RP100-87 and the manufacturers' specifications.
3. Tanks and piping pretested and installed in accordance with NFPA 30(87), API 1615, PEI/RP100(87) and the manufacturers' specifications.
4. Steel tanks and piping are cathodically protected in accordance with NFPA 30(87), API 1632, UL (Underwriters Laboratory) 1746, STI (Steel Tank Institute) R892-89 and the manufacturer's specifications.
5. Tanks and piping tested for tightness after installation in accordance with NFPA 30(87) and PEI/RP100-87.
6. Monitoring well(s) or other leak detection devices installed and tested in accordance with Section 17-761.640 Florida Administrative Code (F.A.C.)
7. Spill and overflow protection devices installed in accordance with Section 17-761.500, F.A.C.
8. Secondary containment installed for tanks and piping as applicable in accordance with Section 17-761.500, F.A.C.

Please Note: The numbers following the abbreviations (e.g. API 1615) are publication or specification numbers issued by these institutions.

Underground Pollutant Tank Removal Checklist

- Closure assessment performed in accordance with Section 17-761.800, F.A.C.
Underground tank removed and disposed of as specified in API 1604 in accordance with Section 17-761.800, F.A.C.

### Certification

I hereby certify and attest that I am familiar with the facility that is registered with the Florida Department of Environmental Regulation; that to the best of my knowledge and belief, the tank installation, replacement or removal at this facility was conducted in accordance with Chapter 489 and Section 376.303, Florida Statutes and Chapter 17-761, Florida Administrative Code (and its adopted reference sources from publications and standards of the National Fire Protection Association (NFPA), the American Petroleum Institute (API), the National Association of Corrosion Engineers (NACE), American Society for Testing and Materials (ASTM); Petroleum Equipment Institute (PEI); Steel Tank Institute (STI); Underwriters Laboratory (UL); and the tank and integral piping manufacturers' specifications; and that the operations, on the checklist were performed accordingly.

Richard Boardman

(Type or Print)

Certified Pollutant Tank Contractor Name  
 Pollutant Storage System Specialty Contractor License Number (PSSSC)

PCC054952

PSSSC Number

[Signature]

Certified Tank Contractor Signature

11-27-95

Date

Ron Boardman

(Type or Print)

Field Supervisor Name

11-27-95

Date

[Signature]

Field Supervisor Signature

11-27-95

Date

The owner or operator of the facility must register the tanks with the Department at least 10 days before the installation. The installer must submit this form no more than 30 days after the completion of installation to the Department of Environmental Regulation at the address printed at the top of page one.

PRODUCT LINES

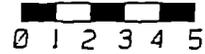
EXCAVATION PERIMETER

TANK

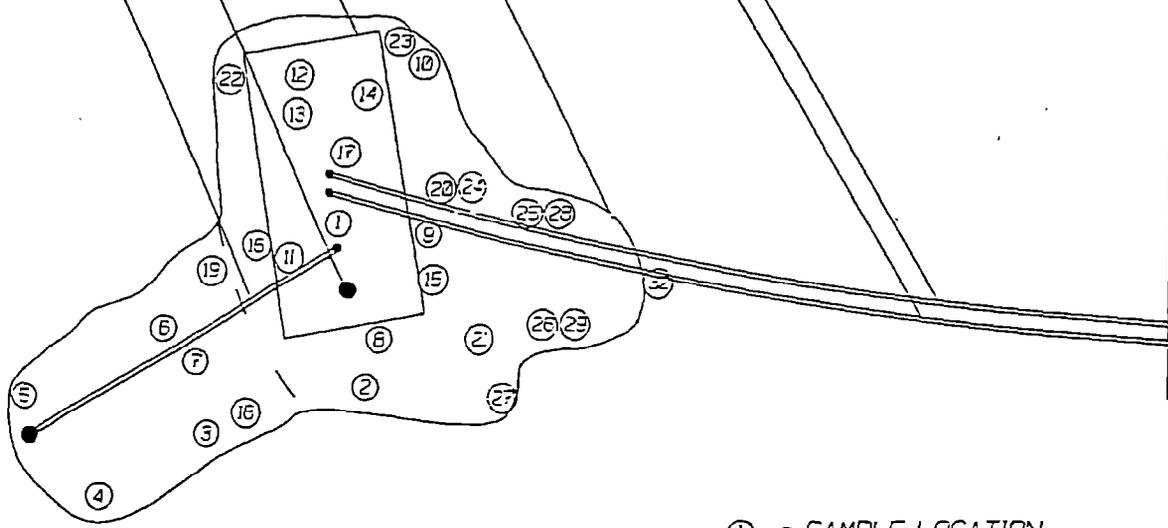
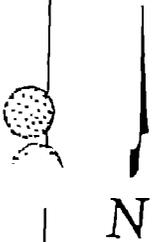
FILL PORT

VENT LINE

SCALE (FT):



BUILDING #193



① = SAMPLE LOCATION

SAMPLE #	HC READING	DEPTH	TIME (COLLECTED/READ)	SAMPLE #	HC READING	DEPTH	TIME (COLLECTED/READ)
1	00	1'	11:05/11:11	17	98.5	6.5'	12:04/12:11
2	00	1'	11:05/11:11	18	32.1	6.5'	11:35/11:23
3	00	1'	11:06/11:12	19	8.8	6.5'	11:05/11:24
4	00	1'	11:07/11:12	20	67.7	6.5'	11:07/11:26
5	00	1'	11:07/11:13	21	69.6	6.5'	11:09/11:28
6	0.0	1'	11:08/11:13	22	3.2	6.5'	11:10/11:30
7	0.0	1'	11:08/11:13	23	1.7	6.5'	11:11/11:31
8	41.8	4'	11:21/11:26	24	2.0	4.5'	11:13/11:32
9	0.5	1'	11:31/11:36	25	35.7	6'	11:47/11:56
10	6.2	1'	11:32/11:37	26	9.6	6'	11:48/11:59
11	29.7	3'	11:33/11:38	27	17.1	6'	11:49/12:04
12	59.0	2'	11:33/11:38	28	14.1	4.5'	11:50/12:09
13	139.3	5.5'	12:01/12:07	29	2.4	4.5'	11:51/12:07
14	37.8	5.5'	12:01/12:06	30	92.6	PILE	12:13/12:18
15	5.3	5.5'	12:02/12:09	31	65.2	PILE	12:14/12:19
16	89.3	5.5'	12:03/12:10	32	157.0	9'	N/A

ALL SAMPLES ANALYZED WITH A THERMO ENVIRONMENTAL INSTRUMENTS MODEL 580B PHOTOIONIZATION DETECTOR.



INNOVATIVE  
SERVICES  
INTERNATIONAL, INC.

# SITE PLAN

BUILDING #193

NAVAL AIR STATION  
CECIL FIELD  
JACKSONVILLE, FLORIDA

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

November 30, 1995

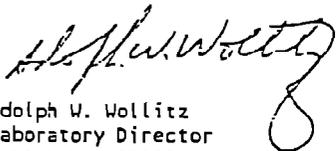
Innovative Services International, Inc.  
P.O. Box 150016  
Jacksonville, FL 32215

Attn: Ron Boardman

Reference: FCEL Lab #9511-281  
Cecil Field (Building 193 - 1195)  
Sample collected 1245 hr. on 11-15-95  
Sample received 1512 hr. on 11-15-95  
(1) H<sub>2</sub>O from Temp. Well

<u>PARAMETER</u>		<u>METHOD</u>	<u>± 1</u>	<u>DATE/TIME</u>	<u>ANALYST</u>
Lead	mg/L	EPA 239.2	0.129	11-29/1428	AWW

Respectfully submitted:

  
Adolph W. Wollitz  
Laboratory Director  
FHRS Lab #E82102  
FHRS Lab #B2110  
EPA #FL00062  
DEP Comp OAPP # 870222G

AWW/tb

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

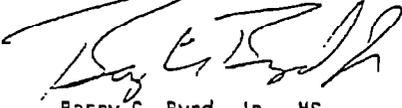
November 30, 1995

Client: I.S.I. Lab #: 9511-281  
Sample I.D.: Building 193 - 1195 (Cecil Field) Date Received: 11-16-95  
Sample Matrix: Liquid Date Completed: 11-30-95  
Sample Collection: 11-16-95

## Analytical Summary

<u>Parameter</u>		<u>Method</u>	<u>Results</u>
TRPH	mg/L	EPA 418.1	2.16

Respectfully submitted,



Barry C. Byrd, Jr., MS  
Laboratory Director  
DEP Comp OAPP # 870222G

BCB/tb

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

November 30, 1995

Client: I.S.I. Lab #: 9511-281  
 Sample I.D.: Building 193 - 1195 (Cecil Field) Date Received: 11-16-95  
 Sample Matrix: Liquid Date Completed: 11-29-95  
 Sample Collection: 11-16-95

Analytical Summary  
 Volatile Hydrocarbons  
 Method 601 - 602

Parameter	Results	ug/L	Parameter	Results	ug/L
Benzene	ND		Bromobenzene	ND	
Bromodichloromethane	ND		Bromomethane	ND	
Bromoform	ND				
Chloroethane	ND		Carbon tetrachloride	ND	
Carbon tetrachloride	ND		Chlorobenzene	ND	
Chloroform	ND		Chloromethane	ND	
2-Chlorotoluene	ND		4-Chlorotoluene	ND	
2-Chloroethylvinyl ether	ND				
Dibromochloromethane	ND		1,2-Dibromoethane	ND	
Dibromomethane	ND		1,2-Dichlorobenzene	ND	
1,3-Dichlorobenzene	ND		1,4-Dichlorobenzene	ND	
Dichlorodifluoromethane	ND		1,1-Dichloroethane	ND	
1,2-Dichloroethane	ND		1,1-Dichloroethene	ND	
tr-1,2-Dichloroethene	ND		Dichloromethane	ND	
1,2-Dichloropropane	ND		t-1,3-Dichloropropene	ND	
Ethyl Benzene	ND				
1,1,1,2-Tetrachloroethane	ND		1,1,2,2-Tetrachloroethane	ND	
Tetrachloroethene	ND		Toluene	ND	
1,1,1-Trichloroethane	ND		1,1,2-Trichloroethane	ND	
Trichloroethene	ND		Trichlorofluoromethane	ND *	
1,2,3-Trichloropropane	ND				
Vinyl Chloride	ND *		MTBE	ND *	
Total Xylenes	ND				

Note: ND = ( None detected, lower detectable limit =  $\frac{1}{10}$  ug/L )  
 ND \* = ( None detected, lower detectable limit =  $\frac{10}{10}$  ug/L )  
 J = ( Peak detected, below detection limit, value suspect )  
 B = ( This parameter also found in the blank )  
 NA = ( This parameter was not analyzed )

Respectfully submitted,

Barry C. Byrd, Jr., MS  
 Technical Director  
 DEP Comp QAPP # 870222G

BCB/tb

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

November 30, 1995

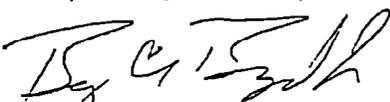
Client: I.S.I. Lab #: 9511-281  
Sample I.D.: Building 193 - 1195 (Cecil Field) Date Received: 11-16-95  
Sample Matrix: Liquid Date Completed: 11-29-95  
Sample Collection: 11-16-95

## Polynuclear Aromatic Hydrocarbons EPA Method 610

<u>PARAMETER</u>	<u>RESULTS</u>
Acenaphthene	ND
Acenaphthylene	ND
Anthracene	ND
Benzo (a) anthracene	ND
Benzo (a) pyrene	ND
Benzo (b) fluoranthene	ND
Benzo (ghi) perylene	ND *
Benzo (j) fluoranthene	ND
Benzo (k) fluoranthene	ND
Chrysene	ND
Dibenzo (a,h) anthracene	ND *
Fluoranthene	ND
Fluorene	ND
Indeno (1,2,3-cd) pyrene	ND *
1-Methylnaphthalene	ND
2-Methylnaphthalene	ND
Naphthalene	ND
Phenanthrene	ND
Pyrene	ND

Note: ND = ( None detected, lower detectable limit = 5 ug/L )  
ND \* = ( None detected, lower detectable limit = 10 ug/L )  
J = ( Peak detected, below detection limit, value suspect )  
B = ( This parameter also found in the blank )  
NA = ( This parameter was not analyzed )

Respectfully submitted,



Barry C. Byrd, Jr., MS  
Technical Director  
DEP Comp QAPP # 870222G

BCB/tb



8811 ARLINGTON EXPRESSWAY  
 JAC (SONVILLE, FLORIDA 32211  
 FAX (904) 725-2215  
 (904) 725-4847  
 (904) 725-5708

# CHAIN OF CUSTODY RECORD

4084

Client: Innovative Services Inter.  
NAS, Cecil Field

Project Description: NAS, Cecil Field      ATTN: Ron Boardman

NO. OF SAMPLE CONTAINERS											
3	1	1	1								

Scott W. Vickel  
 Sampler (Signature)

601, 602 w/MT EE  
 610  
 TSP  
 Pb

Page \_\_\_ of \_\_\_

STATION	DATE	TIME (Military)	SAMPLE DESCRIPTION																REMARKS
BLDG 193-1195	11/16/95	1245	H <sub>2</sub> O from temp well	X	X	X	X												Possible stream

Relinquished by (Signature): <u>Scott W. Vickel</u>	Date	Time (Military)	Received by (Signature): <u>[Signature]</u>	Date	Time (Military)	Relinquished by (Signature):	Date	Time (Military)	Received by (Signature):	Date	Time (Military)
Relinquished by (Signature):	Date	Time (Military)	Received by (Signature):	Date	Time (Military)	REMARKS:					

First Coast Environmental Laboratory, Inc.  
Sample Receiving Report

Date Rec'd: \_\_\_\_\_ Lab ID No.: \_\_\_\_\_

Client Name: \_\_\_\_\_ Project Name: \_\_\_\_\_

Received By: \_\_\_\_\_ 13121

How were the Samples delivered to the laboratory?

Client Cooler  FCEL Cooler  Box  Other   
Hand Delivery  Shipper  Name: \_\_\_\_\_

Any Discrepancies in this section must be explained below and referred to a laboratory management individual for resolution

	YES	NO
1. Were custody papers included with samples?	<input type="checkbox"/>	<input type="checkbox"/>
2. Were custody papers properly filled out? (ink, signed, labels match?)	<input type="checkbox"/>	<input type="checkbox"/>
3. Were samples in direct contact with Wet Ice?	<input type="checkbox"/>	<input type="checkbox"/>
4. Did all samples arrive intact/not leaking?	<input type="checkbox"/>	<input type="checkbox"/>
5. Were all bottle labels complete? (Sample #, Date, Station, Signed, Anal./Preserv.)	<input type="checkbox"/>	<input type="checkbox"/>
6. Were Correct containers used for requested analyses?	<input type="checkbox"/>	<input type="checkbox"/>
7. Were proper preservation techniques indicated?	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples received with adequate holding time?	<input type="checkbox"/>	<input type="checkbox"/>
9. VOA/VOC Containers checked for bubbles?	<input type="checkbox"/>	<input type="checkbox"/>
	Present <input type="checkbox"/>	Absent <input type="checkbox"/>
10. Were samples accepted in lab?		
	Accepted <input type="checkbox"/>	Held for Management <input type="checkbox"/> Rejected <input type="checkbox"/>

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Actions taken:

Lab Management notified: \_\_\_\_\_ Date/Time \_\_\_\_\_

Client Contacted: \_\_\_\_\_ By: \_\_\_\_\_

Final Resolution: \_\_\_\_\_  
\_\_\_\_\_

**CLOSURE ASSESSMENT FORMS**  
**NAVAL AIR STATION CECIL FIELD**

**BUILDING 190**

**BUILDING 193**

**BUILDING 198**

**BUILDING 199**

**BUILDING 290A**

**BUILDING 327**

**BUILDING 340**

**BUILDING 498**

**BUILDING 558**



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form #	17-761.602(6)
Form Title	Closure Assessment Form
Effective Date	December 10 1990
DER Application No.	(Filed in by DER)

## Closure Assessment Form

Owners of storage tank systems that are replacing, removing or closing in place storage tanks shall use this form to demonstrate that a storage system closure assessment was performed in accordance with Rule 17-761 or 17-762, Florida Administrative Code. Eligible Early Detection Incentive (EDI) and Reimbursement Program sites do not have to perform a closure assessment.

Please Print or Type  
Complete All Applicable Blanks

- Date: November 27, 1995
- DER Facility ID Number: N/A
- County: Duval
- Facility Name: N.A.S. Cecil Field - Building #193
- Facility Owner: U.S. Navy
- Facility Address: Building #193, Perimeter Road, N.A.S. Cecil Field
- Mailing Address: Naval Air Station - Cecil Field
- Telephone Number: (\_\_\_\_) \_\_\_\_\_
- Facility Operator: U.S. Navy
- Are the Storage Tank(s): (Circle one or both) A. Aboveground or  Underground
- Type of Product(s) Stored: Diesel Fuel
- Were the Tank(s): (Circle one) A. Replaced  Removed C. Closed in Place D. Upgraded (aboveground tanks only)
- Number of Tanks Closed: One (1)
- Age of Tanks: Unknown

### Facility Assessment Information

Yes    No    Not Applicable

- |                                     |                                     |                                     |  |
|-------------------------------------|-------------------------------------|-------------------------------------|--|
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> |                                     | 1. Is the facility participating in the Florida Petroleum Liability Insurance and Restoration Program (FPLIRP)?  |
| <input type="checkbox"/>            | <input type="checkbox"/>            |                                     | 2. Was a Discharge Reporting Form submitted to the Department?<br>If yes, When: _____ Where: _____   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     | 3. Is the depth to ground water less than 20 feet?   |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 4. Are monitoring wells present around the storage system?<br>If yes, specify type: <input type="checkbox"/> Water monitoring <input type="checkbox"/> Vapor monitoring  |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 5. Is there free product present in the monitoring wells or within the excavation?   |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 6. Were the petroleum hydrocarbon vapor levels in the soils greater than 500 parts per million for gasoline?<br>Specify sample type: <input type="checkbox"/> Vapor Monitoring wells <input type="checkbox"/> Soil sample(s)                   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            | 7. Were the petroleum hydrocarbon vapor levels in the soils greater than 50 parts per million for diesel/kerosene?<br>Specify sample type: <input type="checkbox"/> Vapor Monitoring wells. <input checked="" type="checkbox"/> Soil sample(s) |
| <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 8. Were the analytical laboratory results of the ground water sample(s) greater than the allowable state target levels?<br>(See target levels on reverse side of this form and supply laboratory data sheets)                                  |
| <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | 9. If a used oil storage system, did a visual inspection detect any discolored soil indicating a release?  |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | 10. Are any potable wells located within 1/4 of a mile radius of the facility?   |
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            |                                     | 11. Is there a surface water body within 1/4 mile radius of the site? If yes, indicate distance: <u>± 1000' 4</u>  |

DER Form No.	17-761.900(1)
Form Title	Closure Assessment Form
Effective Date	December 10, 1990
DER Application No.	(Filed in by DER)

12. A detailed drawing or sketch of the facility that includes the storage system location, monitoring wells, buildings, storm drains, sample location and dispenser locations must accompany this form.
13. If a facility has a pollutant storage tank system that has both gasoline and kerosene/diesel stored on site, both EPA Method 602 and EPA Method 610 must be performed on the ground water samples obtained.
14. Amount of soils removed and receipt of proper disposal.
15. If yes is answered to any one of questions 5-9, a Discharge Reporting Form 17-761.900(1) indicating a suspected release shall be submitted to the Department within one working day.
16. A copy of this form and any attachments must be submitted to the Department's district office in your area and to the locally administered program office under contract with the Department within 60 days of completion of tank removal or filling a tank with an inert material.

\_\_\_\_\_  
Signature of Owner

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Signature of Person Performing Assessment

11/27/95  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Professional Geologist  
Title of Person Performing Assessment

### State Ground Water Target Levels That Affect A Pollutant Storage Tank System Closure Assessment

State ground water target levels are as follows:

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. For gasoline (EPA Method 602):             <ol style="list-style-type: none"> <li>a. Benzene                      1 ug/l</li> <li>b. Total VOA                    50 ug/l                 <ul style="list-style-type: none"> <li>- Benzene</li> <li>- Toluene</li> <li>- Total Xylenes</li> <li>- Ethylbenzene</li> </ul> </li> <li>c. Methyl Tert-Butyl Ether (MTBE)            50 ug/l</li> </ol> </li> </ol> | <ol style="list-style-type: none"> <li>2. For kerosene/diesel (EPA Method 610):             <ol style="list-style-type: none"> <li>a. Polynuclear Aromatic Hydrocarbons (PAHS)<br/>(Best achievable detection limit, 10 ug/l maximum)</li> </ol> </li> </ol> |
|---|--|



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form #	17-761.900(5)
Form Title	Underground Storage Tank Installation & Removal Form for Certified Contractors
Effective Date	December 10, 1990
DER Application No.	(Filed in by DER)

## Underground Storage Tank Installation and Removal Form For Certified Contractors

Pollutant Storage System Specialty Contractors as defined in Section 489.113, Florida Statutes (Certified contractors as defined in Section 17-761.200, Florida Administrative Code) shall use this form to certify that the installation, replacement or removal of the storage tank system(s) located at the address listed below was performed in accordance with Department Reference Standards.

### General Facility Information

- DER Facility Identification No.: N/A
- Facility Name: N.A.S. Cecil Field, Building #193 Telephone: (\_\_\_\_) \_\_\_\_\_
- Street Address (physical location): Building #193, Perimeter Road, N.A.S. Cecil Field  
Jacksonville, FL
- Owner Name: United States Navy Telephone: (\_\_\_\_) \_\_\_\_\_
- Owner Address: Naval Air Station - Cecil Field
- Number of Tanks: a. Installed at this time \_\_\_\_\_ b. Removed at this time One (1)
- Tank(s) Manufactured by: Unknown
- Date Work Initiated: \_\_\_\_\_
- Date Work Completed: \_\_\_\_\_

### Underground Pollutant Tank Installation Checklist

Please certify the completion of the following installation requirements by placing an (X) in the appropriate box.

- The tanks and piping are corrosion resistant and approved for use by State and Federal Laws.
- Excavation, backfill and compaction completed in accordance with NFPA (National Fire Protection Association) 30(87), API (American Petroleum Institute) 1615, PEI (Petroleum Equipment Institute) RP100-87 and the manufacturers' specifications.
- Tanks and piping pretested and installed in accordance with NFPA 30(87), API 1615, PEI/RP100(87) and the manufacturers' specifications.
- Steel tanks and piping are cathodically protected in accordance with NFPA 30(87), API 1632, UL (Underwriters Laboratory) 1746, STI (Steel Tank Institute) R892-89 and the manufacturer's specifications.
- Tanks and piping tested for tightness after installation in accordance with NFPA 30(87) and PEI/RP100-87.
- Monitoring well(s) or other leak detection devices installed and tested in accordance with Section 17-761.640, Florida Administrative Code (F.A.C.)
- Spill and overfill protection devices installed in accordance with Section 17-761.500, F.A.C.
- Secondary containment installed for tanks and piping as applicable in accordance with Section 17-761.500, F.A.C.

**Please Note:** The numbers following the abbreviations (eg. API 1615) are publication or specification numbers issued by these institutions.

### Underground Pollutant Tank Removal Checklist

- Closure assessment performed in accordance with Section 17-761.800, F.A.C.
- Underground tank removed and disposed of as specified in API 1604 in accordance with Section 17-761.800, F.A.C.

### Certification

I hereby certify and attest that I am familiar with the facility that is registered with the Florida Department of Environmental Regulation; that to the best of my knowledge and belief, the tank installation, replacement or removal at this facility was conducted in accordance with Chapter 489 and Section 376.303, Florida Statutes and Chapter 17-761, Florida Administrative Code (and its adopted reference sources from publications and standards of the National Fire Protection Association (NFPA), the American Petroleum Institute (API), the National Association of Corrosion Engineers (NACE), American Society for Testing and Materials (ASTM); Petroleum Equipment Institute (PEI); Steel Tank Institute (STI); Underwriters Laboratory (UL); and the tank and integral piping manufacturers' specifications; and that the operations on the checklist were performed accordingly.

Richard Boardman

(Type or Print)

Certified Pollutant Tank Contractor Name  
 Pollutant Storage System Specialty Contractor License Number (PSSSC)

PCC054952

PSSSC Number

[Signature]

Certified Tank Contractor Signature

11-27-95

Date

Richard Boardman

(Type or Print)

Field Supervisor Name

11-27-95

Date

[Signature]

Field Supervisor Signature

11-27-95

Date

The owner or operator of the facility must register the tanks with the Department at least 10 days before the installation. The installer must submit this form no more than 30 days after the completion of installation to the Department of Environmental Regulation at the address printed at the top of page one.

PRODUCT LINES

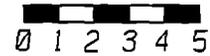
EXCAVATION PERIMETER

TANK

FILL PORT

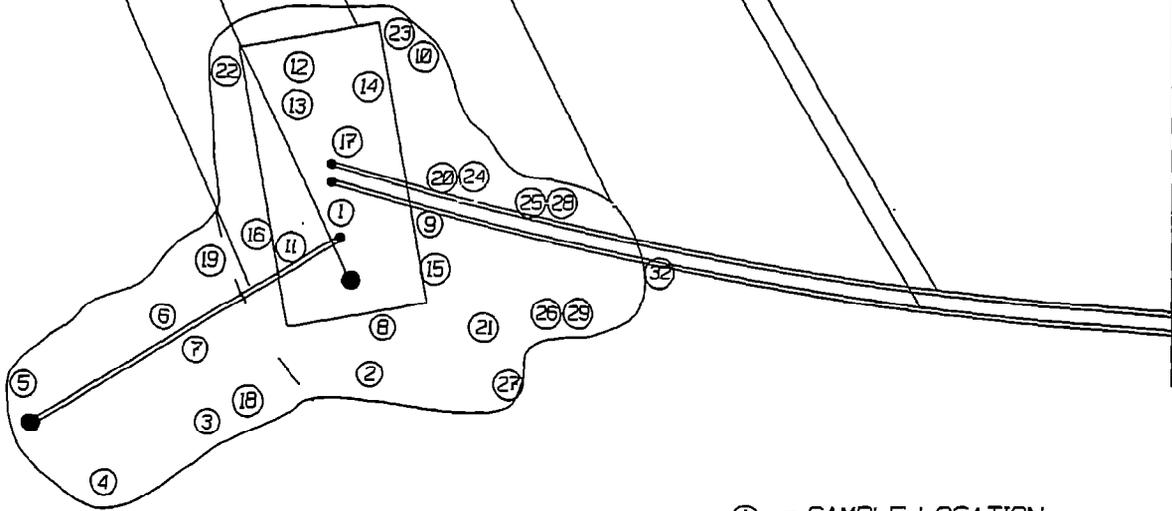
VENT LINE

SCALE (FT):



BUILDING #193

N



① = SAMPLE LOCATION

SAMPLE #	HC READING	DEPTH	TIME (COLLECTED/READ)	SAMPLE #	HC READING	DEPTH	TIME (COLLECTED/READ)
1	0.0	1'	11:05/11:11	17	98.5	6.5'	12:04/12:11
2	0.0	1'	11:05/11:11	18	32.1	6.5'	11:05/11:23
3	0.0	1'	11:06/11:12	19	8.8	6.5'	11:06/11:24
4	0.0	1'	11:07/11:12	20	67.7	6.5'	11:07/11:26
5	0.0	1'	11:07/11:13	21	69.6	6.5'	11:08/11:28
6	0.0	1'	11:08/11:13	22	3.2	6.5'	11:10/11:30
7	0.0	1'	11:08/11:13	23	1.7	6.5'	11:11/11:31
8	41.8	4'	11:21/11:26	24	2.0	4.5'	11:13/11:32
9	0.5	1'	11:31/11:36	25	35.7	6'	11:47/11:56
10	6.2	1'	11:32/11:37	26	9.6	6'	11:48/11:59
11	29.7	3'	11:33/11:38	27	17.1	6'	11:49/12:04
12	58.0	2'	11:33/11:38	28	14.1	4.5'	11:50/12:09
13	139.3	5.5'	12:01/12:07	29	2.4	4.5'	11:51/12:07
14	37.8	5.5'	12:01/12:08	30	92.6	PILE	12:13/12:18
15	5.3	5.5'	12:02/12:09	31	85.2	PILE	12:14/12:19
16	89.3	5.5'	12:03/12:10	32	157.0	9'	N/A

ALL SAMPLES ANALYZED WITH A THERMO ENVIRONMENTAL INSTRUMENTS MODEL 580B PHOTOIONIZATION DETECTOR.



**INNOVATIVE  
SERVICES  
INTERNATIONAL, INC.**

# SITE PLAN

BUILDING #193

NAVAL AIR STATION  
CECIL FIELD  
JACKSONVILLE, FLORIDA

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

November 30, 1995

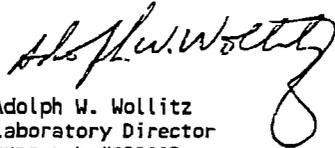
Innovative Services International, Inc.  
P.O. Box 150016  
Jacksonville, FL 32215

Attn: Ron Boardman

Reference: FCEL Lab #9511-281  
Cecil Field (Building 193 - 1195)  
Sample collected 1245 hr. on 11-16-95  
Sample received 1512 hr. on 11-16-95  
(1) H<sub>2</sub>O from Temp. Well

<u>PARAMETER</u>		<u>METHOD</u>	<u># 1</u>	<u>DATE/TIME</u>	<u>ANALYST</u>
Lead	mg/L	EPA 239.2	0.129	11-29/1428	AWW

Respectfully submitted:



Adolph W. Wollitz  
Laboratory Director  
FHRS Lab #E82102  
FHRS Lab #82110  
EPA #FL00062  
DEP Comp QAPP # 870222G

AWW/tb

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

November 30, 1995

Client: I.S.I. Lab #: 9511-281  
Sample I.D.: Building 193 - 1195 (Cecil Field) Date Received: 11-16-95  
Sample Matrix: Liquid Date Completed: 11-30-95  
Sample Collection: 11-16-95

## Analytical Summary

<u>Parameter</u>		<u>Method</u>	<u>Results</u>
TRPH	mg/L	EPA 418.1	2.16

Respectfully submitted,



Barry C. Byrd, Jr., MS  
Laboratory Director  
DEP Comp QAPP # 870222G

BCB/tb

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

November 30, 1995

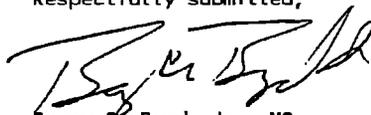
Client: I.S.I. Lab #: 9511-281  
 Sample I.D.: Building 193 - 1195 (Cecil Field) Date Received: 11-16-95  
 Sample Matrix: Liquid Date Completed: 11-29-95  
 Sample Collection: 11-16-95

Analytical Summary  
 Volatile Hydrocarbons  
 Method 601 - 602

Parameter	Results	ug/L	Parameter	Results	ug/L
Benzene	ND		Bromobenzene	ND	
Bromodichloromethane	ND		Bromomethane	ND	
Bromoform	ND				
Chloroethane	ND		Carbon tetrachloride	ND	
Carbon tetrachloride	ND		Chlorobenzene	ND	
Chloroform	ND		Chloromethane	ND	
2-Chlorotoluene	ND		4-Chlorotoluene	ND	
2-Chloroethylvinyl ether	ND				
Dibromochloromethane	ND		1,2-Dibromoethane	ND	
Dibromomethane	ND		1,2 Dichlorobenzene	ND	
1,3 Dichlorobenzene	ND		1,4 Dichlorobenzene	ND	
Dichlorodifluoromethane	ND		1,1-Dichloroethane	ND	
1,2-Dichloroethane	ND		1,1-Dichloroethene	ND	
tr-1,2-Dichloroethene	ND		Dichloromethane	ND	
1,2-Dichloropropane	ND		t-1,3-Dichloropropene	ND	
Ethyl Benzene	ND				
1,1,1,2-Tetrachloroethane	ND		1,1,1,2,2-Tetrachloroethane	ND	
Tetrachloroethene	ND		Toluene	ND	
1,1,1-Trichloroethane	ND		1,1,2-Trichloroethane	ND	
Trichloroethene	ND		Trichlorofluoromethane	ND *	
1,2,3-Trichloropropane	ND				
Vinyl Chloride	ND *		MTBE	ND *	
Total Xylenes	ND				

Note: ND = ( None detected, lower detectable limit =  $\frac{1}{10}$  ug/L )  
 ND \* = ( None detected, lower detectable limit =  $\frac{10}{10}$  ug/L )  
 J = ( Peak detected, below detection limit, value suspect )  
 B = ( This parameter also found in the blank )  
 NA = ( This parameter was not analyzed )

Respectfully submitted,



Barry C. Byrd, Jr., MS  
 Technical Director  
 DEP Comp QAPP # 870222G

BCB/tb

# FIRST COAST ENVIRONMENTAL LABORATORY, INC.

November 30, 1995

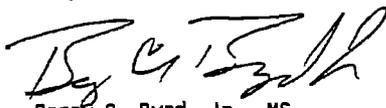
Client: I.S.I. Lab #: 9511-281  
Sample I.D.: Building 193 - 1195 (Cecil Field) Date Received: 11-16-95  
Sample Matrix: Liquid Date Completed: 11-29-95  
Sample Collection: 11-16-95

## Polynuclear Aromatic Hydrocarbons EPA Method 610

<u>PARAMETER</u>	<u>RESULTS</u>
Aceraphthene	ND
Acenaphthylene	ND
Anthracene	ND
Benzo (a) anthracene	ND
Benzo (a) pyrene	ND
Benzo (b) fluoranthene	ND
Benzo (ghi) perylene	ND *
Benzo (j) fluoranthene	ND
Benzo (k) fluoranthene	ND
Chrysene	ND
Dibenzo (a,h) anthracene	ND *
Fluoranthene	ND
Fluorene	ND
Indeno (1,2,3-cd) pyrene	ND *
1-Methylnaphthalene	ND
2-Methylnaphthalene	ND
Naphthalene	ND
Phenanthrene	ND
Pyrene	ND

Note: ND = ( None detected, lower detectable limit = 5 ug/L )  
ND \* = ( None detected, lower detectable limit = 10 ug/L )  
J = ( Peak detected, below detection limit, value suspect )  
B = ( This parameter also found in the blank )  
NA = ( This parameter was not analyzed )

Respectfully submitted,



Barry C. Byrd, Jr., MS  
Technical Director  
DEP Comp QAPP # 870222G

BCB/tb



**First Coast Environmental Laboratory, Inc.  
Sample Receiving Report**

Date Rec'd: \_\_\_\_\_ Lab ID No.: \_\_\_\_\_

Client Name: \_\_\_\_\_ Project Name: \_\_\_\_\_

Received By: \_\_\_\_\_ 13121

How were the Samples delivered to the laboratory?

Client Cooler  FCEL Cooler  Box  Other

Hand Delivery  Shipper  Name: \_\_\_\_\_

Any Discrepancies in this section must be explained below and referred to a laboratory management individual for resolution

	YES	NO
1. Were custody papers included with samples?	<input type="checkbox"/>	<input type="checkbox"/>
2. Were custody papers properly filled out? (ink, signed, labels match?)	<input type="checkbox"/>	<input type="checkbox"/>
3. Were samples in direct contact with Wet Ice?	<input type="checkbox"/>	<input type="checkbox"/>
4. Did all samples arrive intact/not leaking?	<input type="checkbox"/>	<input type="checkbox"/>
5. Were all bottle labels complete? (Sample #, Date, Station, Signed, Anal./Preserv.)	<input type="checkbox"/>	<input type="checkbox"/>
6. Were Correct containers used for requested analyses?	<input type="checkbox"/>	<input type="checkbox"/>
7. Were proper preservation techniques indicated?	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples received with adequate holding time?	<input type="checkbox"/>	<input type="checkbox"/>
9. VOA/VOC Containers checked for bubbles?	<input type="checkbox"/>	<input type="checkbox"/>
	Present <input type="checkbox"/>	Absent <input type="checkbox"/>
10. Were samples accepted in lab?		
	Accepted <input type="checkbox"/>	Held for Management <input type="checkbox"/> Rejected <input type="checkbox"/>

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Actions taken:**

Lab Management notified: \_\_\_\_\_ Date/Time \_\_\_\_\_

Client Contacted: \_\_\_\_\_ By: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

**Final Resolution:**

\_\_\_\_\_  
 \_\_\_\_\_