

N61165.AR.005690  
CNC CHARLESTON  
5090.3a

UNDERGROUND STORAGE TANK (UST) ASSESSMENT REPORT FOR BUILDING 2517  
CNC CHARLESTON SC  
01/28/1997  
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

00959

Li 10.23.97  
Lo 10.23.97

South Carolina Department of Health and Environmental Control (S.C.D.H.E.C.)  
Underground Storage Tank (UST) Assessment Report

Date Received  
  
State Use Only

Submit Completed Form to:  
UST Regulatory Section  
SCDHEC  
2600 Bull Street  
Columbia, South Carolina 29201  
Telephone (803) 734-5331

**I. OWNERSHIP OF UST(S)**

Agency/Owner: Southern Division, Naval Facilities Engineering Command, Caretaker Site Office  
Mailing Address: P.O. Box 190010  
City: N. Charleston State: SC Zip Code: 29419-9010  
Area Code: 803 Telephone Number: 743-9985 Contact Person: LCDR Paul Rose

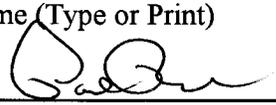
**II. SITE IDENTIFICATION AND LOCATION**

Site I.D. #: Unregulated 00959  
Facility Name: Naval Station Annex, Building 2517  
Street Address: "A" Avenue  
City: North Charleston, 29405-2413 County: Charleston

**III. CLOSURE INFORMATION**

Closure Started: 10 Jan 1997 Closure Completed: 28 Jan 1997  
Number of USTs Closed: 1  
N/A Consultant SPORTENVDETHASN  
UST Removal Contractor

**IV. CERTIFICATION (Read and Sign after completing entire submittal)**

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate and complete.  
LCDR Paul Rose  
Name (Type or Print)  
  
Signature  
RECEIVED  
JUL 15 1997

Groundwater Assessment  
and Development Section

**V. UST INFORMATION**

- A. Product.....
- B. Capacity.....
- C. Age.....
- D. Construction Material.....
- E. Month/Year of Last Use.....
- F. Depth (ft.) To Base of Tank.....
- G. Spill Prevention Equipment Y/N.....
- H. Overfill Prevention Equipment Y/N.....
- I. Method of Closure Removed/Filled.....
- J. Visible Corrosion or Pitting Y/N.....
- K. Visible Holes Y/N.....

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Fuel oil						
2,000 gal.						
Unk.						
Steel						
Unk.						
6.5'						
N						
N						
R						
N						
N						

- L. Method of disposal for any USTs removed from the ground (attach disposal manifests)

UST 2517 was removed, drained, cut open at both ends, and cleaned with a steam cleaner. It was then cut up for recycling as scrap metal. (See Attachment III.)

- M. Method of disposal for any liquid petroleum, sludges, or waste waters removed from the USTs (attach disposal manifests)

The residual fuel oil, waste water, and sludge were recycled.

- N. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

The UST was in very good condition. No corrosion, pitting, or holes were found.

## VI. PIPING INFORMATION

- A. Construction Material.....
- B. Distance from UST to Dispenser.....
- C. Number of Dispensers.....
- D. Type of System P/S.....
- E. Was Piping Removed from the Ground? Y/N....
- F. Visible Corrosion or Pitting Y/N.....
- G. Visible Holes Y/N.....
- H. Age.....

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
copper & steel						
24'						
1 See note 1						
S						
Y						
N						
N						
Unk.						

Note 1: The tank provided heating fuel oil to Building 2517.

- I. If any corrosion, pitting, or holes were observed, describe the location and extent for each line.

No corrosion, pitting, or holes were found.

## VII. BRIEF SITE DESCRIPTION AND HISTORY

Building 2517 serves as the administrative offices for a Marine Corps Reserve Training Unit. UST 2517 provided fuel oil for the building's boiler until heat pumps were installed.

The sample results for the site indicate high levels of Polynuclear Aromatic Hydrocarbons (PAH) for the dirt pile sample, SPORT 0292-1, and for the south end of the UST excavation sample, SPORT 0292-3. A trace amount of contaminants were found in sample SPORT 0292-5, taken beneath the supply and return copper tubing unions (see Site Map 4). It was decided to further excavate the southern end of the UST pit in an attempt to remove the impacted soils. The original hole was expanded 2 feet on the southern end and deepened to approximately 7 ½ feet below ground surface level. A second sample, SPORT 00372-1, taken below the removed soil of the expanded excavation, indicated no PAH hits.

## VIII. SITE CONDITIONS

Yes No Unk

	Yes	No	Unk
<p>A. Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate depth and location on the site map.</p>	X		
<p>B. Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells?</p> <p>If yes, indicate location on site map and describe the odor (strong, mild, etc.)</p>		X	
<p>C. Was water present in the UST excavation, soil borings, or trenches?</p> <p>If yes, how far below land surface (indicate location and depth)?</p> <p>_____</p>		X	
<p>D. Did contaminated soils remain stockpiled on site after closure?</p> <p>If yes, indicate the stockpile location on the site map.</p> <p>Name of DHEC representative authorizing soil removal:</p> <p>_____</p>	X*		
<p>E. Was a petroleum sheen or free product detected on any excavation or boring waters?</p> <p>If yes, indicate location and thickness on the site map.</p>		N/A	

\* The contaminated soil has been transported to Building 1601, Detachment Charleston's Bioremediation Facility. Per conversation with DHEC, Mr. Tim Mettlen, and SouthDiv, Mr. Gabriel Magwood, petroleum contaminated soil may be removed from the excavation and stockpiled for disposal or remediation.



## X. SAMPLING METHODOLOGY

**Provide a detailed description of the methods used to collect and store (preserve) the samples.**

After the removal of UST 2517 soil samples were taken. Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC UST Assessment Guidelines.

Sample jars were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted at the tank ends. UST piping soil samples were taken under the piping at the mechanical connections. A biased composite sample was taken from the excavation dirt pile to characterize the soil for reuse or remediation.

The samples were marked, logged, and immediately placed in sample coolers packed with ice to maintain an approximate temperature of 4° C. Tools were thoroughly cleaned and decontaminated with organic-free soap and water after each sample.

The samples remained in the custody of SPORTENVDETCNASN until they were transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

## XI. RECEPTORS

Yes    No

A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system?  If yes, indicate type of receptor, distance, and direction on site map.		X
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system?  If yes, indicate type of well, distance, and direction on site map.		X
C.	Are there any underground structures (e.g., basements) located within 100 feet of the UST system?  If yes, indicate the type of structure, distance, and direction on site map.		X
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? <div style="text-align: center;">[electricity, phone, water]</div> If yes, indicate the type of utility, distance, and direction on the site map.	X	
E.	Has contaminated soil been identified at a depth of less than 3 feet below land surface in an area that is not capped by asphalt or concrete?  If yes, indicate the area of contaminated soil on the site map.		X*

\* No visual evidence of contamination was found at the site, but the composite sample of the stock-piled soil (SPORT 0292-1) tested high for PAHs.

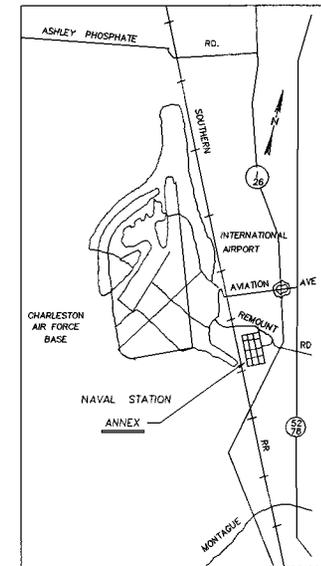
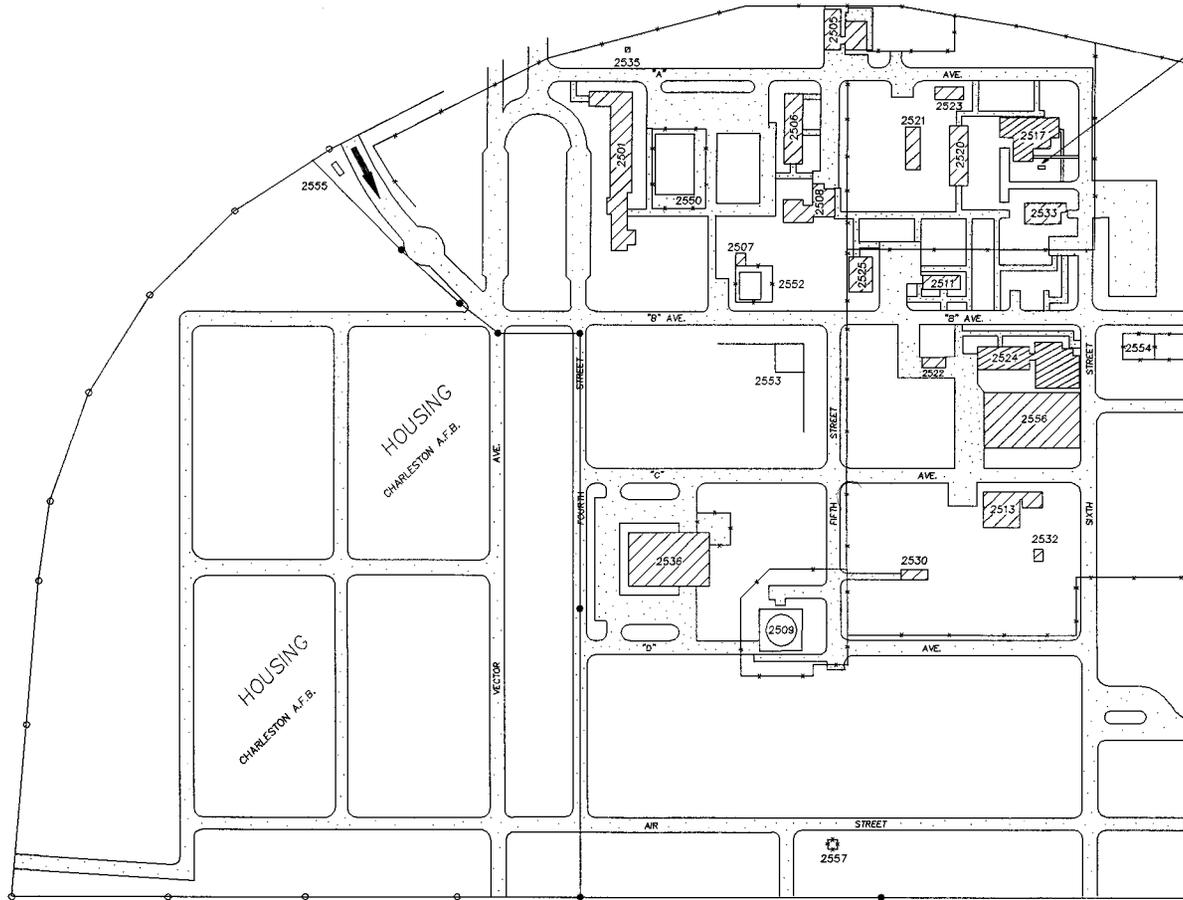
**SITE MAP**

You must supply a scaled site map. It should include all buildings, road names, utilities, tank and pump island locations, sample locations, extent of excavation, and any other pertinent information.

Site Maps 1, 2, 3, and 4  
Photographs 1 and 2



FORMER  
UST 2517



LOCATION MAP  
N.T.S.

GRAPHIC SCALE:



LEGEND:

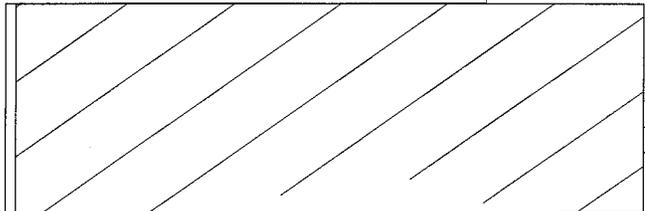
-  BLDG OR STRUCTURE
-  ROADS, WALKS OR PAVED AREAS
-  PROPERTY BOUNDARY
-  PROPERTY BOUNDARY (BY OTHERS)
-  SECURITY FENCE

Site Map 1  
UST 2517  
Naval Station Annex  
Charleston, SC

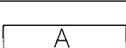
SPORTENVDETHASN  
1899 North Hobson Avenue  
North Charleston, SC 29405-2106

DWG DATE: 30 APR 97

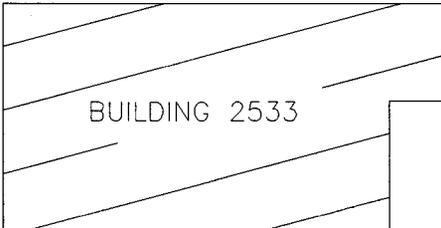
DWG NAME: R2517\_1



BUILDING 2517



FORMER UST 2517

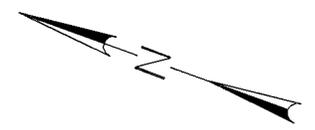


BUILDING 2533

PARKING

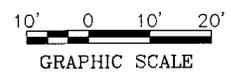
ASPHALT DRIVE

SIXTH STREET



NOTES

- A - A/C UNITS
- D - DRAINAGE DITCH
- E - ELECTRICAL CONDUIT ENTERS GND
- G - GRASS
- P - PHONE LINES ENTER GND
- U - UTILITY POLE
- S - SIDEWALK
- T - TREE
- W - WATER VALVE
- \* \* - FENCE

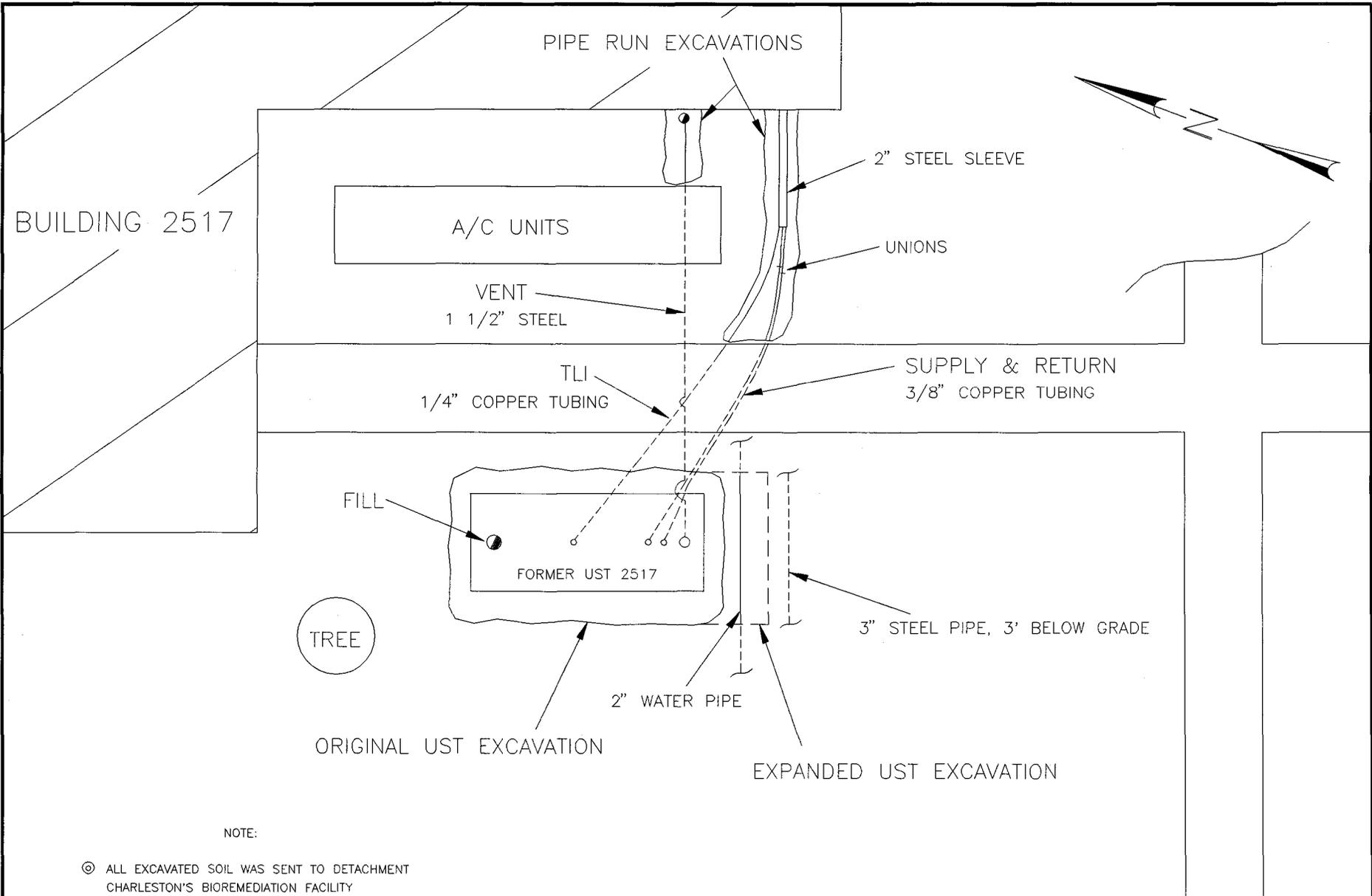


SPORTENVDETHASN  
 1899 North Hobson Ave.  
 North Charleston, SC  
 29405-2106  
 Ph. (803) 743-6777

Site Map 2  
 UST 2517  
 Naval Station Annex  
 Charleston, SC

DWG DATE: 30 APR 97

DWG NAME: R2517\_2



NOTE:

© ALL EXCAVATED SOIL WAS SENT TO DETACHMENT  
CHARLESTON'S BIOREMEDIATION FACILITY

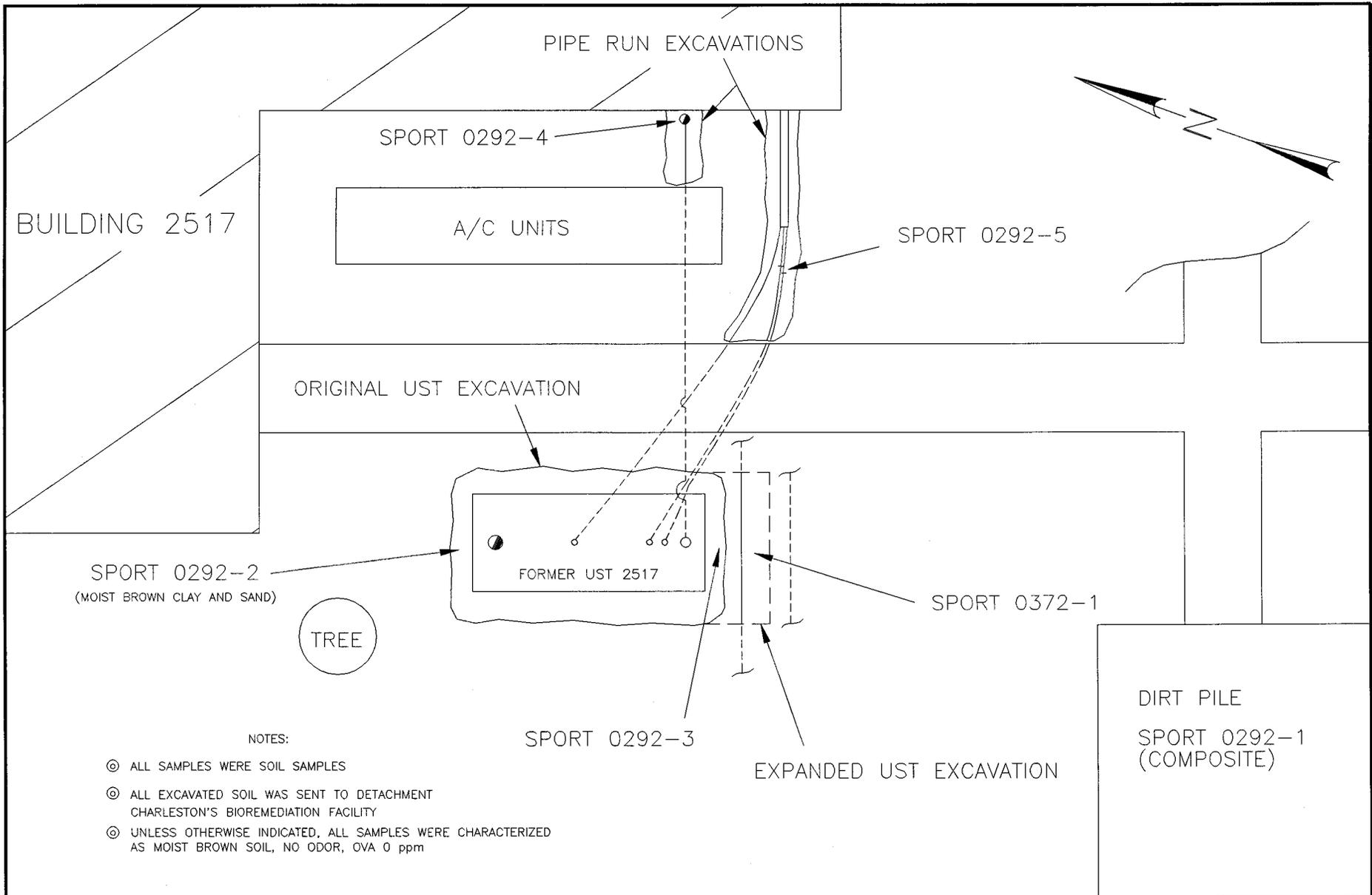


GRAPHIC SCALE

SPORTENVDETHASN  
1899 North Hobson Ave.  
North Charleston, SC  
29405-2106  
Ph. (803) 743-6777

Site Map 3  
UST 2517  
Naval Station Annex  
Charleston, SC

DWG DATE: 1 May 97	DWG NAME: R2517_3
--------------------	-------------------



NOTES:

- ⊙ ALL SAMPLES WERE SOIL SAMPLES
- ⊙ ALL EXCAVATED SOIL WAS SENT TO DETACHMENT CHARLESTON'S BIOREMEDIATION FACILITY
- ⊙ UNLESS OTHERWISE INDICATED, ALL SAMPLES WERE CHARACTERIZED AS MOIST BROWN SOIL, NO ODOR, OVA 0 ppm



GRAPHIC SCALE

SPORTENVDETCHASN  
 1899 North Hobson Ave.  
 North Charleston, SC  
 29405-2106  
 Ph. (803) 743-6777

Site Map 4  
 UST 2517  
 Naval Station Annex  
 Charleston, SC

DWG DATE: 1 May 97	DWG NAME: R2517_4
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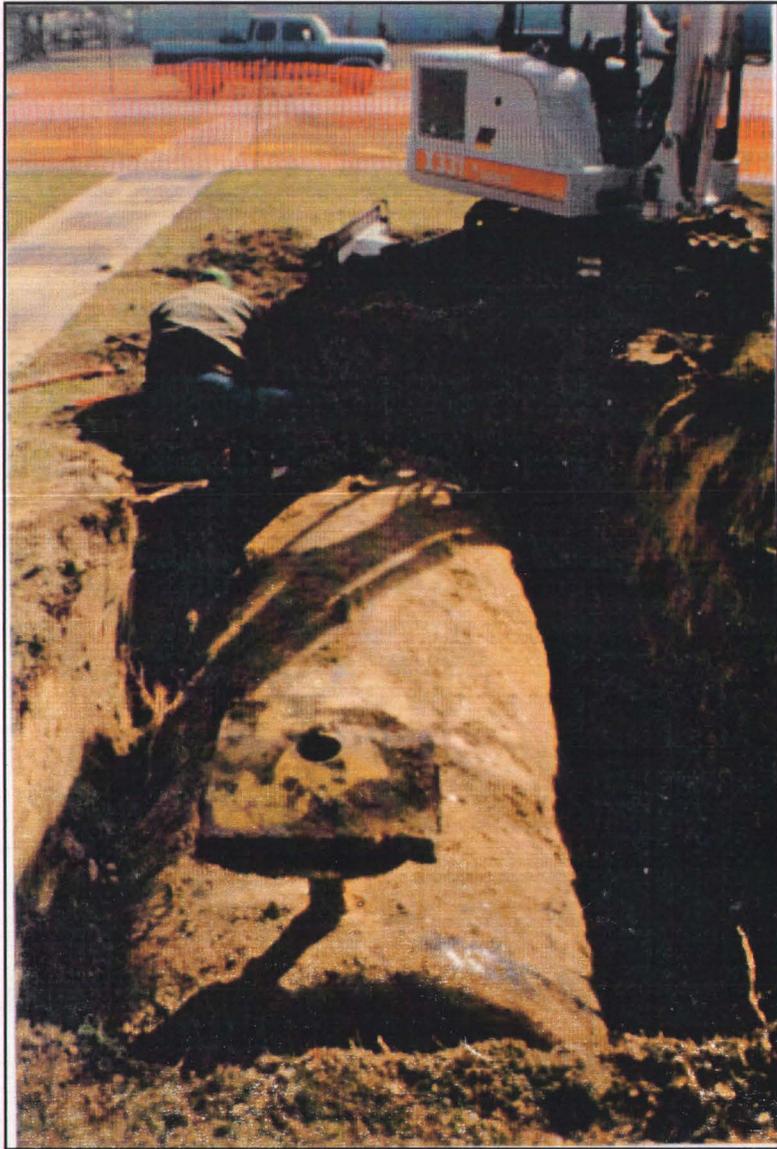


Photo 1: UST 2517 in the excavation, prior to removal.



Photo 2: UST 2517 piping exposed.

**ANALYTICAL RESULTS**

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

Certified Analytical Results  
Chain-of-Custody

2517  
116  
BSE



# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10982
TN	02934	02934

**Client:** Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

**Contact:** Mr. Bill Hiers

**Project Description:** SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 1 of 2

Sample ID : SPORT0292-1  
 Lab ID : 9701230-01  
 Matrix : Soil  
 Date Collected : 01/13/97  
 Date Received : 01/14/97  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Volatile Organics</b>											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JGS	01/16/97	1242	96314	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.230	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene		3.20	1.00	2.00	ug/kg	1.0					
<b>Extractable Organics</b>											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	J	281	166	331	ug/kg	1.0	JCB	01/20/97	1218	96326	2
Acenaphthylene	U	0.00	166	331	ug/kg	1.0					
Anthracene		645	166	331	ug/kg	1.0					
Benzo(a)anthracene		1290	166	331	ug/kg	1.0					
Benzo(a)pyrene		861	166	331	ug/kg	1.0					
Benzo(b)fluoranthene		1340	166	331	ug/kg	1.0					
Benzo(ghi)perylene		367	166	331	ug/kg	1.0					
Benzo(k)fluoranthene		569	166	331	ug/kg	1.0					
Chrysene		1530	166	331	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	166	331	ug/kg	1.0					
Fluoranthene		2970	166	331	ug/kg	1.0					
Fluorene		394	166	331	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene		410	166	331	ug/kg	1.0					
Naphthalene	U	0.00	166	331	ug/kg	1.0					
Phenanthrene		2400	166	331	ug/kg	1.0					
Pyrene		2820	166	331	ug/kg	1.0					

The following prep procedures were performed:  
 GC/MS Base/Neutral Compounds

MS 01/16/97 1400 96326 3

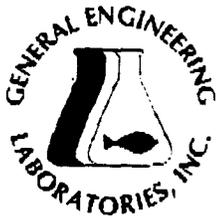
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\*9701230-01\*

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### Laboratory Certifications

STATE	GEL	EPI
FL	EE7156/87294	EE7472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 2 of 2

Sample ID : SPORT0292-1

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	82.6	(30.0 - 115.)
Nitrobenzene-d5	M610	61.6	(23.0 - 120.)
p-Terphenyl-d14	M610	90.2	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	136.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	115.	(63.4 - 136.)
Toluene-d8	BTEX-8260	127.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	136.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	115.	(63.4 - 136.)
Toluene-d8	NAP-8260	127.	(72.1 - 137.)

### M = Method

### Method-Description

M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

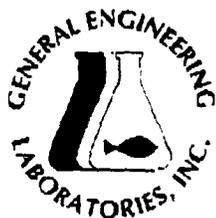
Karen Blakeney  
 Reviewed By

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	293	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiern

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 1 of 2

Sample ID : SPORT0292-2  
 Lab ID : 9701230-02  
 Matrix : Soil  
 Date Collected : 01/13/97  
 Date Received : 01/14/97  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Volatile Organics</b>											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JGS	01/15/97	1823	96314	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.660	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene		2.15	1.00	2.00	ug/kg	1.0					
<b>Extractable Organics</b>											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	166	331	ug/kg	1.0	JCB	01/20/97	1252	96326	2
Acenaphthylene	U	0.00	166	331	ug/kg	1.0					
Anthracene	U	0.00	166	331	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	166	331	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	166	331	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	166	331	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	166	331	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	166	331	ug/kg	1.0					
Chrysene	U	0.00	166	331	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	166	331	ug/kg	1.0					
Fluoranthene	U	0.00	166	331	ug/kg	1.0					
Fluorene	U	0.00	166	331	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	166	331	ug/kg	1.0					
Naphthalene	U	0.00	166	331	ug/kg	1.0					
Phenanthrene	U	0.00	166	331	ug/kg	1.0					
Pyrene	U	0.00	166	331	ug/kg	1.0					

The following prep procedures were performed:  
 GC/MS Base/Neutral Compounds

MS 01/16/97 1400 96326 3

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	239	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 2 of 2

Sample ID : SPORT0292-2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	70.2	(30.0 - 115.)
Nitrobenzene-d5	M610	58.8	(23.0 - 120.)
p-Terphenyl-d14	M610	73.8	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	119.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	120.	(63.4 - 136.)
Toluene-d8	BTEX-8260	116.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	119.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	120.	(63.4 - 136.)
Toluene-d8	NAP-8260	116.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

**Notes:**

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*Karen Blakney*  
 Reviewed By

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(803) 556-8171 • Fax (803) 766-1178

\*9701230-02\*

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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	RPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 1 of 2

Sample ID : SPORT0292-3  
 Lab ID : 9701230-03  
 Matrix : Soil  
 Date Collected : 01/13/97  
 Date Received : 01/14/97  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Volatile Organics</b>											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JGS	01/15/97	1854	96314	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	J	1.81	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene		2.22	1.00	2.00	ug/kg	1.0					
<b>Extractable Organics</b>											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	1660	3320	ug/kg	10.	JCB	01/20/97	1325	96326	2
Acenaphthylene	J	1760	1660	3320	ug/kg	10.					
Anthracene	J	2060	1660	3320	ug/kg	10.					
Benzo(a)anthracene		13200	1660	3320	ug/kg	10.					
Benzo(a)pyrene		12600	1660	3320	ug/kg	10.					
Benzo(b)fluoranthene		15000	1660	3320	ug/kg	10.					
Benzo(ghi)perylene		5940	1660	3320	ug/kg	10.					
Benzo(k)fluoranthene		8530	1660	3320	ug/kg	10.					
Chrysene		14800	1660	3320	ug/kg	10.					
Dibenzo(a,h)anthracene	J	2860	1660	3320	ug/kg	10.					
Fluoranthene		20100	1660	3320	ug/kg	10.					
Fluorene	U	0.00	1660	3320	ug/kg	10.					
Indeno(1,2,3-c,d)pyrene		6840	1660	3320	ug/kg	10.					
Naphthalene	U	0.00	1660	3320	ug/kg	10.					
Phenanthrene	U	0.00	1660	3320	ug/kg	10.					
Pyrene		20600	1660	3320	ug/kg	10.					

The following prep procedures were performed:  
 GC/MS Base/Neutral Compounds

MS 01/16/97 1400 96326 3

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### Laboratory Certifications

STATE	GEL	EPI
FL	ES7156/87294	ES7472/87458
NC	233	
SC	10120	10582
TN	02934	02934

**Client:** Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

**Contact:** Mr. Bill Hiers

**Project Description:** SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 2 of 2

Sample ID : SPORT0292-3

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(30.0 - 115.)
Nitrobenzene-d5	M610	0.00*	(23.0 - 120.)
p-Terphenyl-d14	M610	0.00*	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	136.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	118.	(63.4 - 136.)
Toluene-d8	BTEX-8260	122.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	136.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	118.	(63.4 - 136.)
Toluene-d8	NAP-8260	122.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

**Notes:**

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

*Karen Blakeney*  
 Reviewed By

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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87456
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 1 of 2

Sample ID : SPORT0292-4  
 Lab ID : 9701230-04  
 Matrix : Soil  
 Date Collected : 01/13/97  
 Date Received : 01/14/97  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Volatle Organics</b>											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JGS	01/16/97	1313	96314	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.211	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0					
<b>Extractable Organics</b>											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	166	331	ug/kg	1.0	JCB	01/20/97	1358	96326	2
Acenaphthylene	U	0.00	166	331	ug/kg	1.0					
Anthracene	U	0.00	166	331	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	166	331	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	166	331	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	166	331	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	166	331	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	166	331	ug/kg	1.0					
Chrysene	U	0.00	166	331	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	166	331	ug/kg	1.0					
Fluoranthene	J	185	166	331	ug/kg	1.0					
Fluorene	U	0.00	166	331	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	166	331	ug/kg	1.0					
Naphthalene	U	0.00	166	331	ug/kg	1.0					
Phenanthrene	U	0.00	166	331	ug/kg	1.0					
Pyrene	U	0.00	166	331	ug/kg	1.0					

The following prep procedures were performed:  
 GC/MS Base/Neutral Compounds

MS 01/16/97 1400 96326 3

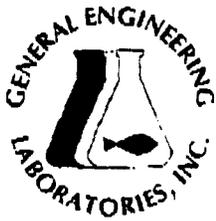
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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87451
NC	233	
SC	10120	10582
TN	02934	02934

**Client:** Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

**Contact:** Mr. Bill Hiers

**Project Description:** SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 2 of 2

Sample ID : SPORT0292-4

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	81.4	(30.0 - 115.)
Nitrobenzene-d5	M610	64.8	(23.0 - 120.)
p-Terphenyl-d14	M610	84.0	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	129.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	111.	(63.4 - 136.)
Toluene-d8	BTEX-8260	117.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	129.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	111.	(63.4 - 136.)
Toluene-d8	NAP-8260	117.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

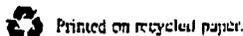
This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakency at (803) 769-7386.

*Karen Blakency*  
 Reviewed By

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# GENERAL ENGINEERING LABORATORIES

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### Laboratory Certifications

STATE	GEL	EPI
FL	EF7156/87294	EF7472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 1 of 2

Sample ID : SPORT0292-5  
 Lab ID : 9701230-05  
 Matrix : Soil  
 Date Collected : 01/13/97  
 Date Received : 01/14/97  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Volatile Organics</b>											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JGS	01/21/97	1902	96593	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.410	1.00	2.00	ug/kg	1.0					
<b>Extractable Organics</b>											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	167	333	ug/kg	1.0	JCB	01/20/97	1432	96326	2
Acenaphthylene	U	0.00	167	333	ug/kg	1.0					
Anthracene	U	0.00	167	333	ug/kg	1.0					
Benzo(a)anthracene	J	276	167	333	ug/kg	1.0					
Benzo(a)pyrene	J	286	167	333	ug/kg	1.0					
Benzo(b)fluoranthene		396	167	333	ug/kg	1.0					
Benzo(ghi)perylene	J	206	167	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	167	333	ug/kg	1.0					
Chrysene	J	296	167	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	167	333	ug/kg	1.0					
Fluoranthene		773	167	333	ug/kg	1.0					
Fluorene	U	0.00	167	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	J	216	167	333	ug/kg	1.0					
Naphthalene	U	0.00	167	333	ug/kg	1.0					
Phenanthrene		453	167	333	ug/kg	1.0					
Pyrene		596	167	333	ug/kg	1.0					

The following prep procedures were performed:  
 GC/MS Base/Neutral Compounds

MS 01/16/97 1400 96326 3

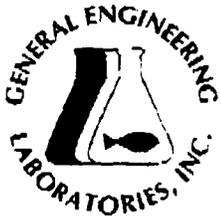
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### Laboratory Certifications

STATE	GEL	EPI
FL	287156/87294	287472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 2 of 2

Sample ID : SPORT0292-5

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	50.3	(30.0 - 115.)
Nitrobenzene-d5	M610	38.3	(23.0 - 120.)
p-Terphenyl-d14	M610	55.5	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	105.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	86.4	(63.4 - 136.)
Toluene-d8	BTEX-8260	98.4	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	105.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	86.4	(63.4 - 136.)
Toluene-d8	NAP-8260	98.4	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

**Notes:**

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

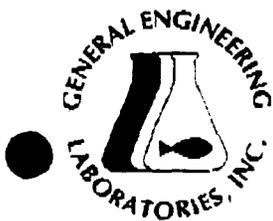
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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 1 of 2

Sample ID : SPORT0292-6  
 Lab ID : 9701230-06  
 Matrix : Soil  
 Date Collected : 01/13/97  
 Date Received : 01/14/97  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Volatile Organics</b>											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JGS	01/21/97	1934	96593	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	J	1.49	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX-8260	79.0	(53.5 - 154.)
Bromofluorobenzene	BTEX-8260	79.0	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	71.8	(63.4 - 136.)
Dibromofluoromethane	BTEX-8260	71.8	(63.4 - 136.)
Toluene-d8	BTEX-8260	80.2	(72.1 - 137.)
Toluene-d8	BTEX-8260	80.2	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	79.0	(53.5 - 154.)
Bromofluorobenzene	NAP-8260	79.0	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	71.8	(63.4 - 136.)
Dibromofluoromethane	NAP-8260	71.8	(63.4 - 136.)
Toluene-d8	NAP-8260	80.2	(72.1 - 137.)
Toluene-d8	NAP-8260	80.2	(72.1 - 137.)

M = Method Method-Description

M 1 EPA 8260

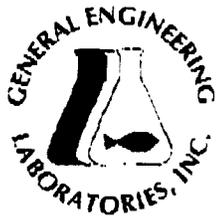
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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87458
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Erv.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiens

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: January 23, 1997

Page 2 of 2

Sample ID : SPORT0292-6

M = Method	Method-Description
------------	--------------------

#### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakemey at (803) 769-7386.

Karen Blakemey  
 Reviewed By

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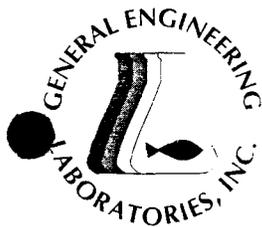
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CHAIN OF CUSTODY RECORD

9701230

Client Name/Facility Name				SAMPLE ANALYSIS REQUIRED (X) - use remarks area to specify specific compounds or methods																	Use F or P in the boxes to indicate whether sample was filtered and/or preserved			
SPORTENYDETHASN				# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Colliform - specify type	STERILITY	PAN	Remarks		
Collected by/Company																						WELL	SOIL	COMP
SAMPLE ID	DATE	TIME																						
-01	SPORT0292-1	1/13/97	1345	X	X															X	X	UST 2517 SOIL ART Pile		
-02	SPORT0292-2	1/13/97	1405	X		X														X	X	UST 2517-2 <del>UST 2172</del> SOIL		
-03	SPORT0292-3	1/13/97	1415	X		X														X	X	UST 2517-3 SOIL		
-04	SPORT0292-4	1/13/97	1425	X		X														X	X	UST 2517-4 SOIL		
-05	SPORT0292-5	1/13/97	1435	X		X														X	X	UST 2517-5 SOIL		
-06	SPORT0292-6	1/13/97	1300	X		X														X		UST 2517 UOA SOIL TRIP BLANK		
Relinquished by:				Date:	Time:	Received by:				Relinquished by:				Date:	Time:	Received by:								
<i>[Signature]</i>				1/13/97	1515	<i>[Signature]</i>				<i>[Signature]</i>				1/14/97	1525	Crystal Henderson								
Relinquished by:				Date:	Time:	Received by lab by:				Date:	Time:	Remarks:												
Crystal Henderson				1/14/97	15:51	Karen Blareney				1/14/97	15:51													

White = sample collector    Yellow = file    Pink = with report



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### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 17, 1997

Page 1 of 2

Sample ID : SPORT0372-1  
 Lab ID : 9703165-01  
 Matrix : Soil  
 Date Collected : 03/07/97  
 Date Received : 03/07/97  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Volatile Organics</b>											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	WAM	03/13/97	1203	98951	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0					
<b>Extractable Organics</b>											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	167	333	ug/kg	1.0	JCB	03/14/97	1456	98964	2
Acenaphthylene	U	0.00	167	333	ug/kg	1.0					
Anthracene	U	0.00	167	333	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	167	333	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	167	333	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	167	333	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	167	333	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	167	333	ug/kg	1.0					
Chrysene	U	0.00	167	333	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	167	333	ug/kg	1.0					
Fluoranthene	U	0.00	167	333	ug/kg	1.0					
Fluorene	U	0.00	167	333	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	167	333	ug/kg	1.0					
Naphthalene	U	0.00	167	333	ug/kg	1.0					
Phenanthrene	U	0.00	167	333	ug/kg	1.0					
Pyrene	U	0.00	167	333	ug/kg	1.0					

The following prep procedures were performed:  
 GC/MS Base/Neutral Compounds

MCS 03/13/97 1752 98964 3

PO Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29407

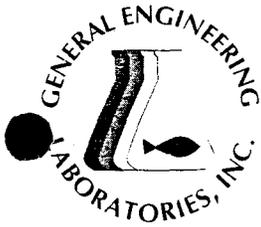
(803) 556-8171 • Fax (803) 766-1178



\*9703165-01\*



Printed on recycled paper.



# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 17, 1997

Page 2 of 2

Sample ID : SPORT0372-1

Surrogate Recovery	Test	Percent %	Acceptable Limits
2-Fluorobiphenyl	M610	88.2	(30.0 - 115.)
Nitrobenzene-d5	M610	98.2	(23.0 - 120.)
p-Terphenyl-d14	M610	95.0	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	100.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	89.6	(63.4 - 136.)
Toluene-d8	BTEX-8260	107.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	100.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	89.6	(63.4 - 136.)
Toluene-d8	NAP-8260	107.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

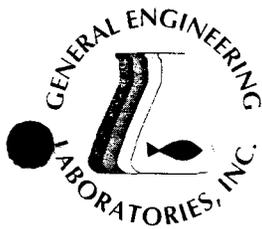
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

\* indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
 \_\_\_\_\_  
 Reviewed By



# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

### Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/87
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
 SUPSHIP-Portsmouth Detachment-Env.  
 1899 North Hobson Ave.  
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 14, 1997

Page 1 of 2

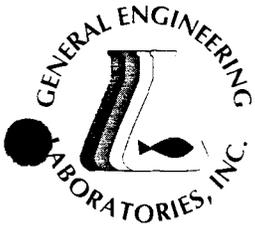
Sample ID : SPORT0372-2  
 Lab ID : 9703165-02  
 Matrix : Soil  
 Date Collected : 03/06/97  
 Date Received : 03/07/97  
 Priority : Routine  
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
<b>Volatile Organics</b>											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	WAM	03/12/97	1808	98951	
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene	U	0.00	1.00	2.00	ug/kg	1.0					

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX-8260	96.4	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	74.0	(63.4 - 136.)
Toluene-d8	BTEX-8260	103.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	96.4	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	74.0	(63.4 - 136.)
Toluene-d8	NAP-8260	103.	(72.1 - 137.)

M = Method	Method-Description
M 1	EPA 8260





# GENERAL ENGINEERING LABORATORIES

Meeting today's needs with a vision for tomorrow.

## Laboratory Certifications

STATE	GEL	EPI
FL	E87156/87294	E87472/874
NC	233	
SC	10120	10582
TN	02934	02934

Client: Supervisor of Ship Building & Conversion  
SUPSHIP-Portsmouth Detachment-Env.  
1899 North Hobson Ave.  
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: March 14, 1997

Page 2 of 2

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Sample ID : SPORT0372-2

---

M = Method

Method-Description

---

### Notes:

The qualifiers in this report are defined as follows:

ND indicates that the analyte was not detected at a concentration greater than the detection limit.

J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).

U indicates that the analyte was not detected at a concentration greater than the detection limit.

● indicates that a quality control analyte recovery is outside of specified acceptance criteria.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

  
\_\_\_\_\_  
Reviewed By



NP 00196

BFB

General Engineering Laboratories, Inc.  
 2040 Savage Road  
 Charleston, South Carolina 29414  
 P.O. Box 30712  
 Charleston, South Carolina 29417  
 (803) 556-8171

**CHAIN OF CUSTODY RECORD**

Page 1 of 1

9703165

Client Name/Facility Name				# OF CONTAINERS	SAMPLE ANALYSIS REQUIRED (x) - use remarks area to specify specific compounds or methods														Use F or P in the boxes to indicate whether sample was filtered and/or preserved  CCL 26067  Remarks			
Collected by/Company					pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide		Coliform - specify type	BTX + NAPHTHALENE	PAH
SAMPLE ID	DATE	TIME	WELL SOIL COMP GRAB																			
01	SPORT 372-1	3/7/97	0910	X X	2														X	X		UST-2517 (RESAMPLED)
02	SPORT 372-2	3/6/97	0904	X X	1														X			VOA SOIL UST-2517 TRIP BLANK
NOTE: SEE ATTACHED SHEET FOR REPORTING Limits.																						
Relinquished by: <i>[Signature]</i>		Date: 3/7/97	Time: 1115	Received by: <i>W.R. Hiers, Jr.</i>		Relinquished by: <i>W.R. Hiers, Jr.</i>		Date: 3/7/97	Time: 1407	Received by: <i>[Signature]</i>												
Relinquished by: <i>[Signature]</i>		Date: 3/7/97	Time: 1445	Received by lab by: <i>Dianna Francis</i>		Date: 3/7/97	Time: 1445	Remarks:														

White = sample collector    Yellow = file    Pink = with report

**Attachment III**

Certificate of Disposal (tank)

# UST Certificate of Disposal

## CONTRACTOR

Supervisor of Shipbuilding, Conversion and Repair, USN  
Portsmouth, VA  
Environmental Detachment Charleston  
1899 North Hobson Avenue  
North Charleston 29405-2106

Telephone (803) 743-6482

## TANK ID & LOCATION

2517; Building 2517, "A" Ave., Naval Station Annex, N. Charleston, SC

## DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning  
& Disposal Area  
Charleston Naval Complex

### TYPE OF TANK

Fuel oil

### SIZE (GAL)

2,000 gal.

## CLEANING/DISPOSAL METHOD

The tank was cut open on both ends, cleaned with a steam cleaner, cut into sections, and disposed of as recyclable scrap metal.

## DISPOSAL CERTIFICATION

I certify that the above tank has been properly cleaned and disposed of as recyclable scrap metal.

  
O. S. Utheim

4/22/97  
(Date)