

N61165.AR.005707
CNC CHARLESTON
5090.3a

NO FURTHER ACTION (NFA) REVIEW OF ASSESSMENT REPORT DATED 9 OCTOBER
1996 FOR BUILDING NS-717 CNC CHARLESTON SC
12/06/1996
SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

Commissioner: Douglas E. Bryant

Board: John H. Burriss, Chairman
William M. Hull, Jr., MD, Vice Chairman
Roger Leaks, Jr., Secretary

Richard E. Jabbour, DDS
Cyndi C. Mosteller
Brian K. Smith
Rodney L. Grandy

Promoting Health, Protecting the Environment

Mr. Gabriel L. Magwood
Southern Division NFEC
P.O. Box 190010
2155 Eagle Drive
North Charleston, South Carolina 29419-9010

Re: Assessment Report dated October 9, 1996
Charleston Naval Base Building NS 717 (Site Identification # 17666)
Charleston County

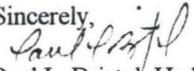
Date: December 6, 1996

Dear Mr. Magwood:

The author has completed technical review of the referenced document. As submitted, the report provides analytical results of environmental sampling conducted to determine if releases have occurred from operation of the referenced system. The data presented indicate no detectable levels of petroleum hydrocarbons were identified in the tank pit. These results appear to indicate that no additional endeavors for remedial actions (soils removal) and contamination characterization are warranted at the referenced site at this time. If in the future contamination is identified which is attributable to this site, additional assessments and/or remedial endeavors may be required, as appropriate.

Should you have any questions, please contact me at (803) 734-5328.

Sincerely,


Paul L. Bristol, Hydrogeologist
Groundwater Assessment and Development Section
Bureau of Water

cc: Trident District EQC



DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
P.O. BOX 190010
2155 EAGLE DRIVE
NORTH CHARLESTON, S.C. 29419-9010

L1 12.3.96
L6 12.10.96
PLW

5090
Code 1849
9 Oct 1996

Mr. Paul Bristol
South Carolina Department of Health
and Environmental Control
Ground-Water Protection Division
2600 Bull Street
Columbia, SC 29201

Bldg NS 717
17666

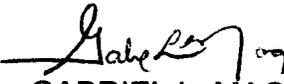
UST ASSESSMENT REPORT FOR: NS 765, NS 705, NS 708, NS 701, NS 719, NS 717 AND NS 718 CHARLESTON NAVAL COMPLEX, CHARLESTON, SC

Dear Mr. Bristol:

Enclosed are the Assessment Reports for the closure of underground storage tanks NS 765, NS 705, NS 708, NS 701, NS 719, NS 717 AND NS 718 located at the Charleston Naval Complex, Charleston, SC.

If you have any questions please contact me at 803-820-7307.

Sincerely,


GABRIEL L. MAGWOOD
Petroleum/UST

RECEIVED
OCT 11 1996
Groundwater Protection
Division

Ser: 157
30 SEP 1996

MEMORANDUM

From: Director, Supervisor of Shipbuilding, Conversion and Repair, USN, Portsmouth Environmental Detachment Charleston, SC (SPORTENVDETCNASN)

To: Southern Division Naval Facilities Engineering Command
(Code 18B - Hayes Patterson)

Subj: UST ASSESSMENT REPORT FOR UST NS 717

Ref: (a) DHEC Underground Storage Tank Assessment Guidelines for Permanent Closure, Change-In-Owner and Change-In-Service, dated June, 1995

(b) SC Underground Storage Tank Control Regulations, R.61-92, Part 280

(c) South Carolina Department of Health and Environmental Control (SCDHEC) Comments on the Tank Management Plan, dated June 18, 1996

Encl: (1) UST Assessment Report for UST NS 717

1. Enclosure (1) is the UST Assessment Report for UST NS 717. The UST was an unregulated 280 gallon heating oil tank that supplied NS 717, a Naval Base Charleston residence. Removal was completed June 12, 1996. This report documents the tank's removal and serves as SPORTENVDETCNASN's work completion report for all work associated with the removal of the subject tank.

2. The UST Assessment Report (AR) contains the information required by Appendix 4 of reference (a). Although reference (b) does not require an AR for unregulated UST's, reference (c) comments request that all reports be forwarded to the South Carolina Department of Health and Environmental Control's DOD petroleum contact.



E. R. Dearhart

L 12.3.96
L 12.10.96
PLM

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. #: NA/ Unregulated
Facility Name: Charleston Naval Base Complex, NS 717
Street Address: 190 Turnbull Ave.
City: North Charleston County: Charleston

III CLOSURE INFORMATION

Closure Started: 12 June 1996 Closure Completed: 12 June 1996
Number of USTs Closed: 1
N/A Consultant SPORTENVDETCNASN 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.
Paul M. Rose
Name (Type or Print)
Signature
Signature

RECEIVED
OCT 11 1996
Groundwater Protection
Division

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						
280						
> 20 yrs						
Steel						
4/96						
6'6"						
N						
N						
R						
N						
N						

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

UST NS 717 was removed, drained and cleaned. 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).

Residual waste oil was pumped into a 55 gallon drum and recycled.

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

Tank appeared to be in good condition. No corrosion, holes, or pitting was 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					
N/A (See Note 1)					
N/A (See Note 1)					
S					
Y					
N					
N					
> 20 Yrs					

Note 1: UST 717 provided heating oil for a residence.

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

No corrosion, pitting or holes were observed.

VII. BRIEF SITE DESCRIPTION AND HISTORY

NS 717 served as housing for naval personnel and their families. UST 717 provided heating oil for the residence.

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.</p>		X	

X. SAMPLING METHODOLOGY

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

After the removal of UST 717 soil samples were taken. The soil samples were collected from the bottom of the excavation from native soils at a depth of 6' 6" below land surface as shown in Site Map Number 2. Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC UST Assessment Guidelines.

The samples are identified as follows:

	Detachment Charleston		General Engineering Labs
Soil Sample	UST717-1	=	SPORT -0079-1
Soil Sample	UST717-2	=	SPORT -0079-2

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.

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.

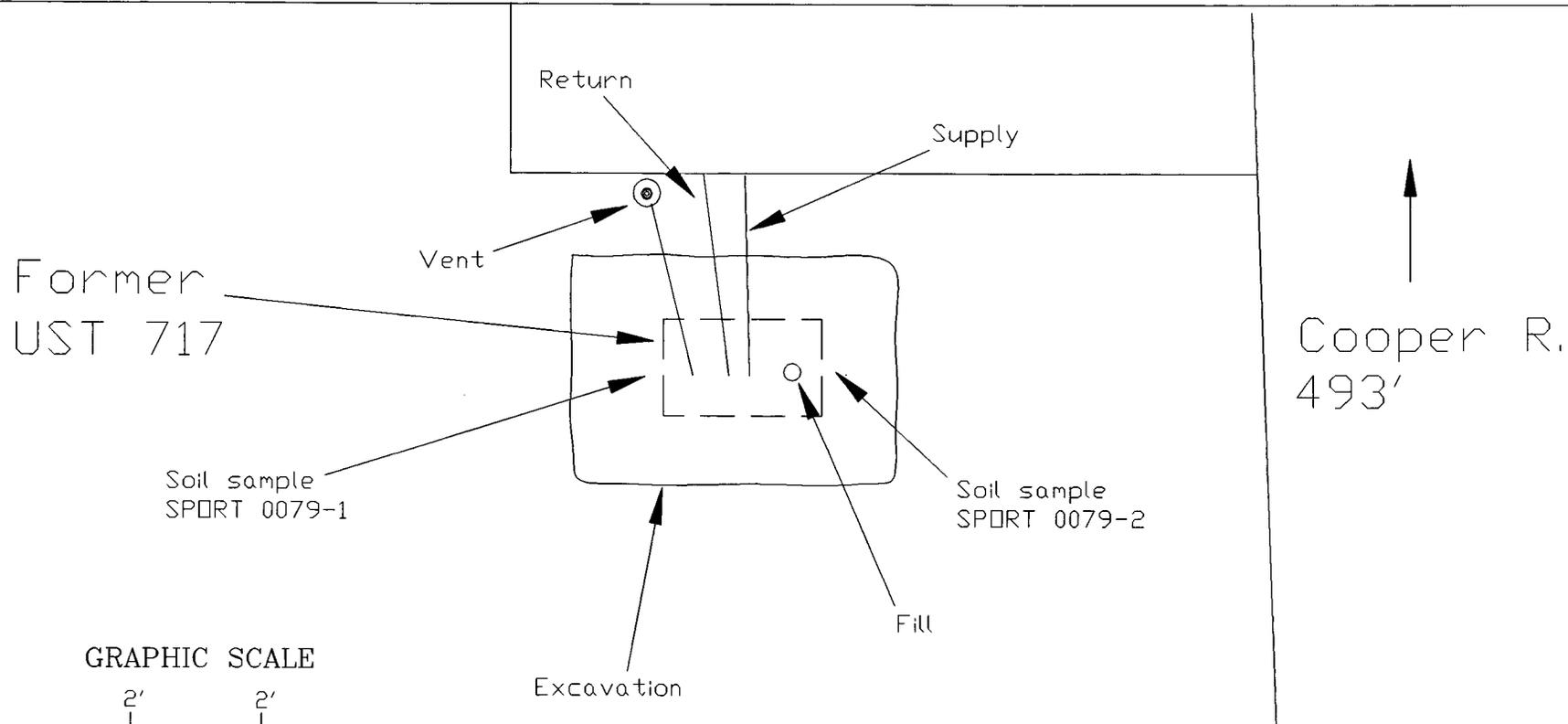
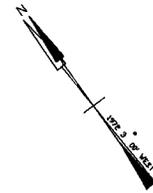
The samples remained in the custody of SPORTENVDETCNASN until they were transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

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, and 3
No photographs available

NS717
190 Turnbull Ave.



Former
UST 717

Soil sample
SPORT 0079-1

Soil sample
SPORT 0079-2

Cooper R.
493'

GRAPHIC SCALE

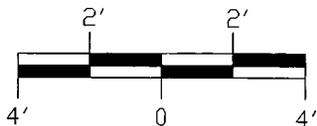


Figure: Site Map 2
UST 717
Charleston Naval Base
Charleston, SC

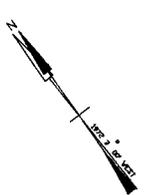
Turnbull Ave.

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

DWG DATE: 22 Aug 96
DWG NAME: NS717_2

NS717
190 Turnbull Ave.

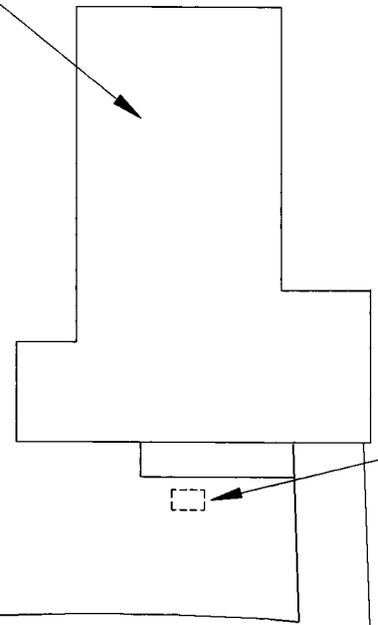
NS719



Storm drain ○

Sewer ○

Pump house □



Former
UST 717

Cooper R.
493'

Turnbull Ave.

Firemain ○ □

Electrical
Transformer

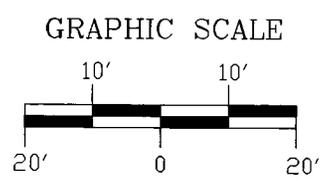


Figure: Site Map 3
UST 717
Charleston Naval Base
Charleston, SC

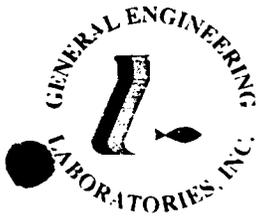
SPORTENVDETHASN
1899 North Hobson Avenue
North Charleston, SC 29405-2106

DWG DATE: 21 Aug 1996
DWG NAME: NS717_3

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



GENERAL ENGINEERING LABORATORIES

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CERTIFICATE OF ANALYSIS

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: June 26, 1996

Page 1 of 3

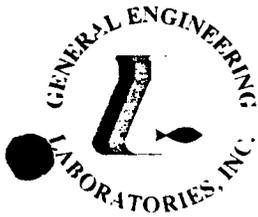
Sample ID : SPORT0079-1
Lab ID : 9606326-01
Matrix : Soil
Date Collected : 06/12/96
Date Received : 06/18/96
Priority : Routine
Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JAC	06/19/96	1331	86165	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					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	166	332	ug/kg	1.0	JCB	06/25/96	2137	86390	2
Acenaphthylene	U	0.00	166	332	ug/kg	1.0					
Anthracene	U	0.00	166	332	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	166	332	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	166	332	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	166	332	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	166	332	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	166	332	ug/kg	1.0					
Chrysene	U	0.00	166	332	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	166	332	ug/kg	1.0					
Fluoranthene	U	0.00	166	332	ug/kg	1.0					
Fluorene	U	0.00	166	332	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	166	332	ug/kg	1.0					
Naphthalene	U	0.00	166	332	ug/kg	1.0					
Phenanthrene	U	0.00	166	332	ug/kg	1.0					
Pyrene	U	0.00	166	332	ug/kg	1.0					

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

GWL 06/25/96 1630 86390 3





GENERAL ENGINEERING LABORATORIES

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CERTIFICATE OF ANALYSIS

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: June 26, 1996

Page 2 of 3

Sample ID : SPORT0079-1

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	91.7	(30.0 - 115.)
Nitrobenzene-d5	M610	74.9	(23.0 - 120.)
p-Terphenyl-d14	M610	92.1	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	104.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	92.0	(74.0 - 128.)
Toluene-d8	BTEX-8260	101.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	104.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	92.0	(74.0 - 128.)
Toluene-d8	NAP-8260	101.	(53.4 - 163.)

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

Notes:

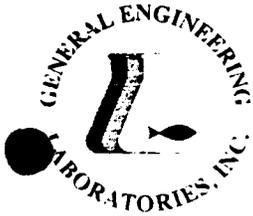
The qualifiers in this report are defined as follows:

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.

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

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175



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North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

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cc: NPWC00196

Report Date: June 26, 1996

Page 3 of 3

Sample ID : SPORT0079-1

GEL Laboratory Certifications

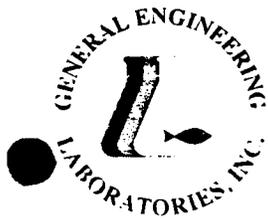
EPI Laboratory Certifications

DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790			

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.

Analytical Report Specialist





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Report Date: June 26, 1996

Page 1 of 3

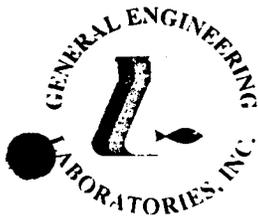
Sample ID : SPORT0079-2
 Lab ID : 9606326-02
 Matrix : Soil
 Date Collected : 06/12/96
 Date Received : 06/18/96
 Priority : Routine
 Collector : Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
<i>BTEX - 4 items</i>											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	JAC	06/19/96	1400	86165	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					
Extractable Organics											
<i>Polynuclear Aromatic Hydrocarbons - 16 items</i>											
Acenaphthene	U	0.00	167	333	ug/kg	1.0	JCB	06/25/96	2209	86390	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

GWL 06/25/96 1630 86390 3





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 1899 North Hobson Ave.
 North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 26, 1996

Page 2 of 3

Sample ID : SPORT0079-2

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	85.6	(30.0 - 115.)
Nitrobenzene-d5	M610	71.1	(23.0 - 120.)
p-Terphenyl-d14	M610	85.6	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	101.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	98.0	(74.0 - 128.)
Toluene-d8	BTEX-8260	101.	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	101.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	98.0	(74.0 - 128.)
Toluene-d8	NAP-8260	101.	(53.4 - 163.)

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

Notes:

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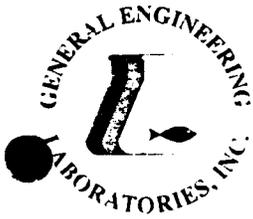
* indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications

AL - 41040
 CA - 2089
 AZ - AZ0514
 CT - PH-0169

EPI Laboratory Certifications

AL - 41050
 CA - I-1023/2056
 AZ - AZ0514
 CT - PH-0175



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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106

Contact: Mr. Bill Hiers

Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196

Report Date: June 26, 1996

Page 3 of 3

Sample ID : SPORT0079-2

GEL Laboratory Certifications

DE - SC012
ME - SC012
NC - 233
RI - 135
TN - 02934
VA - 00151
WI - 999887790

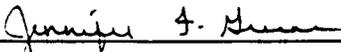
FL - E87156/87294
MS - 10120
NY - 11501
SC - 10120
UT - E-251
WA - C223

EPI Laboratory Certifications

FL - E87472/87458
NY - 11502
SC - 10582
UT - E-227
WA - C225
PA - 68-485

MS - 29417
RI - 138
TN - 02934
VA - 00111
NJ - 79002
WV - 235

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.


Analytical Report Specialist



CHAIN OF CUSTODY RECORD

Page 1 of 1 96006326

Client Name/Facility Name		Collected by/Company		# 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 21883 Remarks				
SAMPLE ID	DATE	TIME	WELL		SOIL	COMP	GRAB	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	BTEX PLUS NAPHTHALENE	PAH	
01	SPORT0079-1	6/12/96	1200	X	X																		X	X	UST 717-1 soil	. 1
02	SPORT-0079-2	6/12/96	1200	X	X																		X	X	UST 717-2 soil	. 1
03	SPORT-0079-3	6/12/96	1200	X	X																		X	X	UST 719-1 soil	. 1
04	SPORT0079-4	6/12/96	1200	X	X																		X	X	UST 719-2 soil	. 1
05	SPORT 0079-5	6/12/96	1200																				X		VOA TRIP BLANK	. 2

Relinquished by: 21.2. [Signature] Date: 6/17/96 Time: 1405 Received by: W.R. Hiers, Jr. Relinquished by: W.R. Hiers, Jr. Date: 6/18/96 Time: 1442 Received by: Michael [Signature]

Relinquished by: Michael [Signature] Date: 6/18/96 Time: 1500 Received by lab by: _____ Date: _____ Time: _____ 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

UST 717; NS 717, Navbase Charleston, 190 Turnbull Ave., N. Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK

SIZE (GAL)

Fuel Oil

280 gal.

CLEANING/DISPOSAL METHOD

The tank was cut open on both ends, cleaned with a steam cleaner, 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. Whitem

(Name)

1 8/27/96

(Date)