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CNC CHARLESTON
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ABOVE GROUND STORAGE TANK (AST) ASSESSMENT REPORT BUILDING M1136 CNC
CHARLESTON SC
09/27/1997
ENVIRONMENTAL DETACHMENT CHARLESTON

FEB 10 1998

Aboveground Storage Tank (AST) Assessment Report **Water Monitoring, Assessment & Protection Division**

Date Received

State Use Only

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

I. OWNERSHIP OF AST(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 # 01027
Facility Name: Charleston Naval Base Complex, Building M1136
Street Address: Commissary Street
City: North Charleston, 29405-2413 County: Charleston

III. CLOSURE INFORMATION

Closure Started: 29 Sept 1997 Closure Completed: 6 Nov 97
Number of ASTs Closed: 1
N/A Consultant SPORTENVDETHASN
AST Removal Contractor

V. 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

V. AST INFORMATION

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

1136	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Fuel oil					
500 gal					
~1977					
Steel					
Unk					
N					
N					
R					
Y					
N					

- L. Method of disposal for any ASTs removed.

AST 1136 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 ASTs.

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 AST.

AST 1136 was covered with patches of flaking paint and surface rust, but no holes were found.

VI. PIPING INFORMATION

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

1136	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Unk					
6'					
1 See note 1					
S					
Y					
See below					
See below					
1977					

Note 1: AST 1136 provided heating fuel oil to building 1136.

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

The piping for AST 1136 had been disconnected and removed at an unknown date prior to DET removal of the tank.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Building M1136 was constructed in 1942. It has served as a post office, a storehouse, a radio central control and a receiving station. At the time of base closure, building M1136 housed administrative offices for the Naval Supply Center.

AST 1136 was a 500 gallon tank which provided heating fuel oil to the boiler of the building. The tank was installed around 1977 with the installation of a new boiler.

VIII. SITE CONDITIONS

Yes No Unk

A. Were any petroleum-stained or contaminated soils found near the AST?		X	
B. Were any petroleum odors detected? If yes, indicate location on site map and describe the odor (strong, mild, etc.)		X	

IX. SAMPLE INFORMATION

S.C.D.H.E.C. Lab Certification Number 10120

Sample #	Location	Sample Type (Soil/Water)	Depth*	Date/Time of Collection	Collected By	OVA#
SPORT 0571-2	North end of tank.	Soil	12"	18 Nov 97 1115	William Nesbit	22.5 ppm

* = Depth Below the Surrounding Land Surface

X. SAMPLING METHODOLOGY

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

After the removal of AST 1136, a soil sample was taken. Sampling was performed in accordance with SCDHEC R.61-92 Part 280 and SCDHEC 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. The soil sample was extracted at the tank end closest to the fill/vent pipe and supply and return piping connection.

The sample jars 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 sample remained in the custody of SPORTENVDETHASN until it was transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

XI. RECEPTORS

Yes No

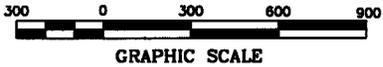
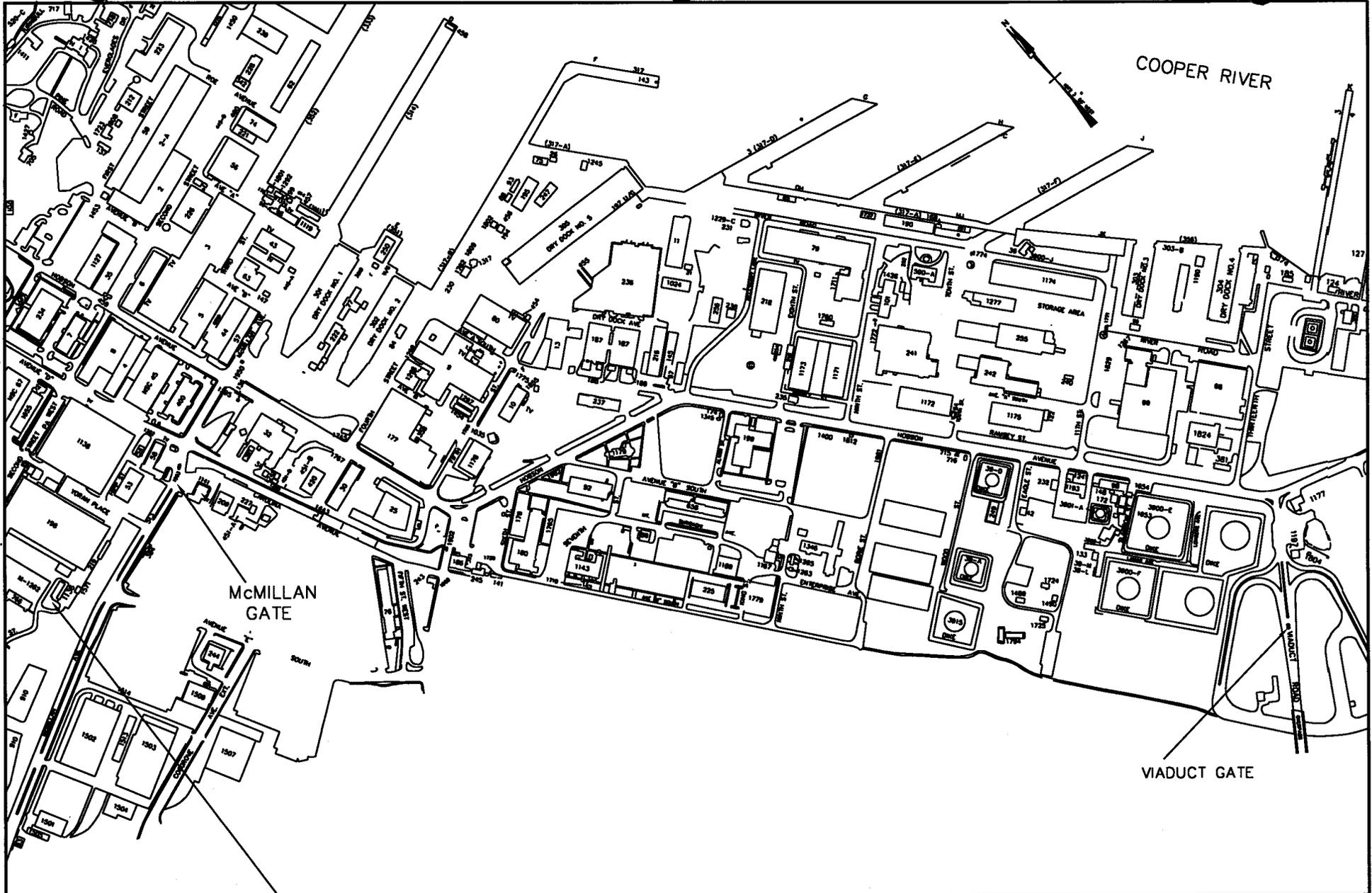
<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the AST system?</p> <p>If yes, indicate type of receptor, distance, and direction on site map.</p>		X
<p>B. Are there any public, private, or irrigation water supply wells within 1000 feet of the AST system?</p> <p>If yes, indicate type of well, distance, and direction on site map.</p>		X
<p>C. Are there any underground structures (e.g., basements) located within 100 feet of the AST system?</p> <p style="text-align: center;">[Bldg 1136 partial basement - 6']</p> <p>If yes, indicate the type of structure, distance, and direction on site map.</p>	X	
<p>D. Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the AST system that could potentially come in contact with the contamination?</p> <p>If yes, indicate the type of utility, distance, and direction on the site map.</p> <p style="text-align: center;">[water & electricity]</p>	X	

Attachment I

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
Photographs 1 and 2



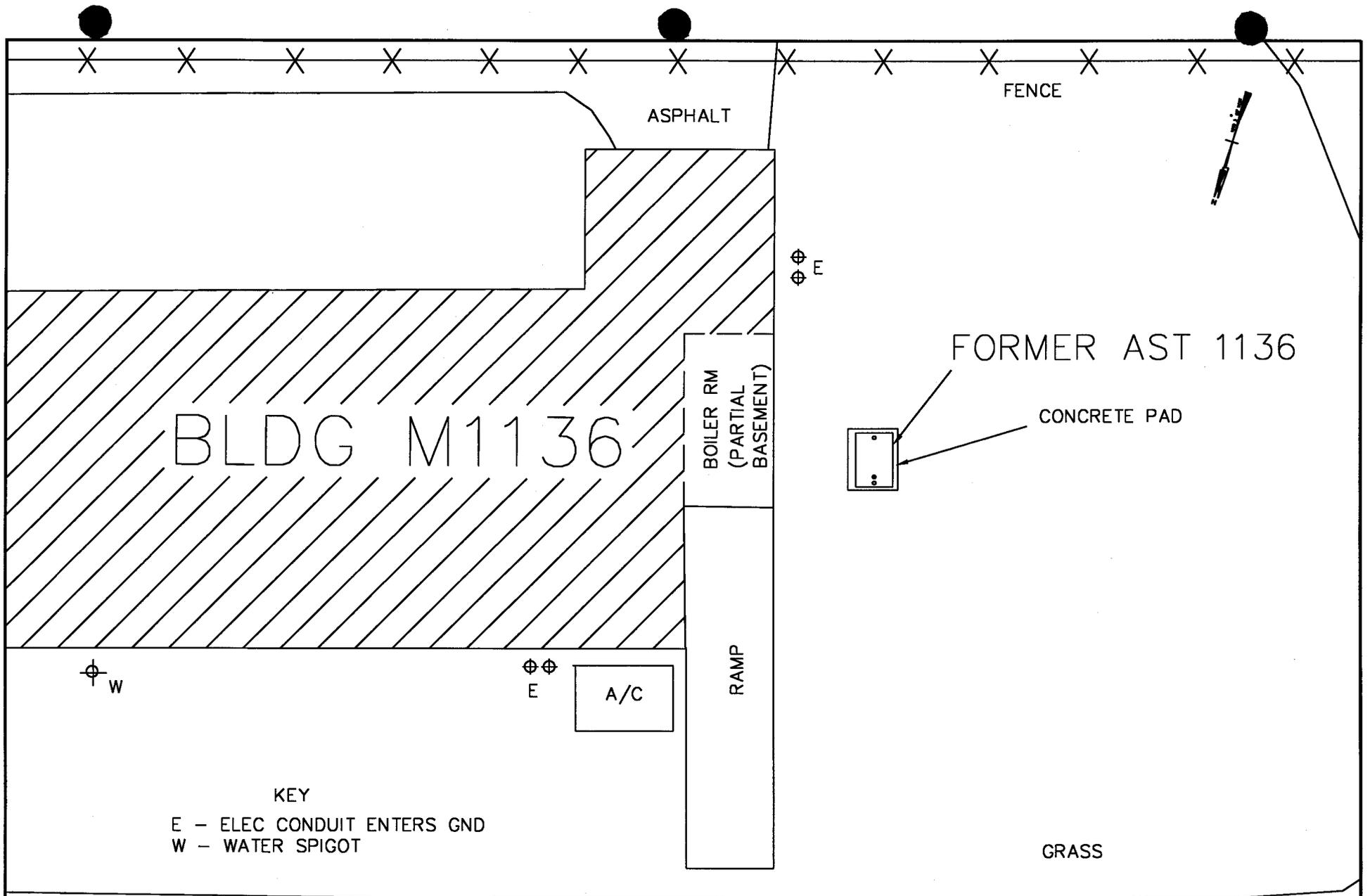
FORMER AST 1136

SPORTENVDECHASN
1899 North Hobson Ave.
North Charleston, SC
29405-2108
Ph. (803) 743-6777

Site Map 1
AST 1136
Charleston Naval Base
Charleston, SC

DWG DATE: 20 NOV 97

DWG NAME: A1136_1

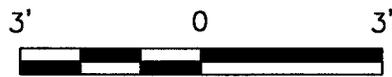
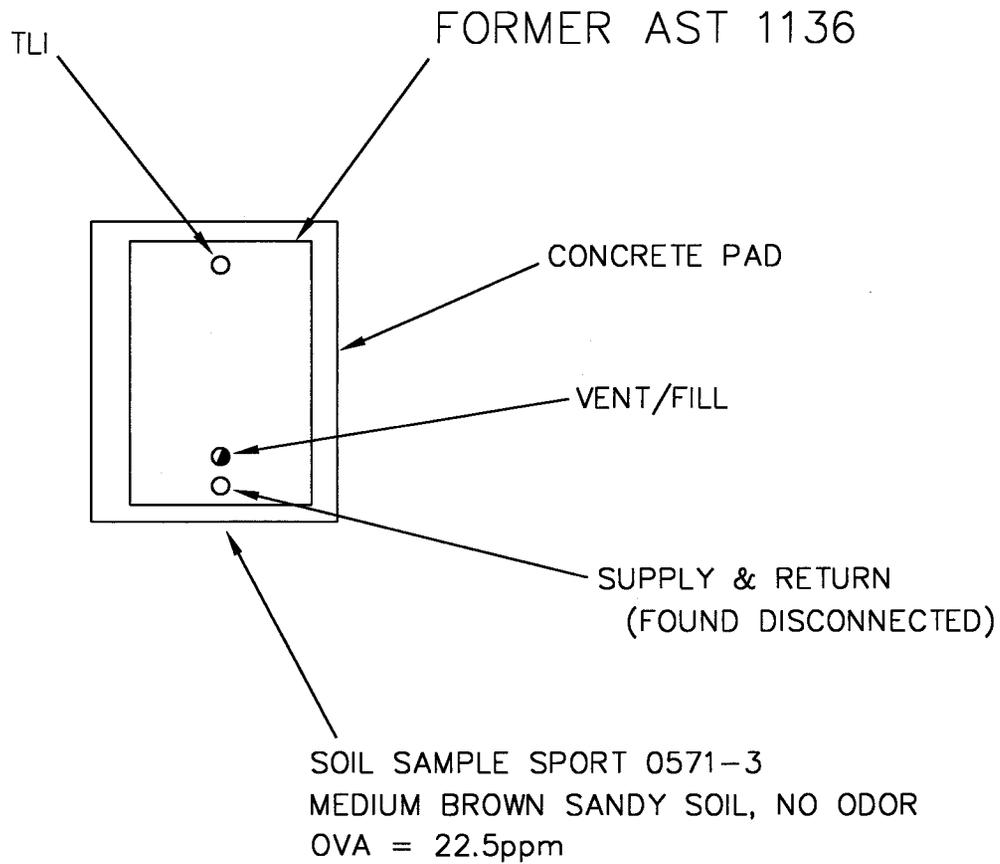
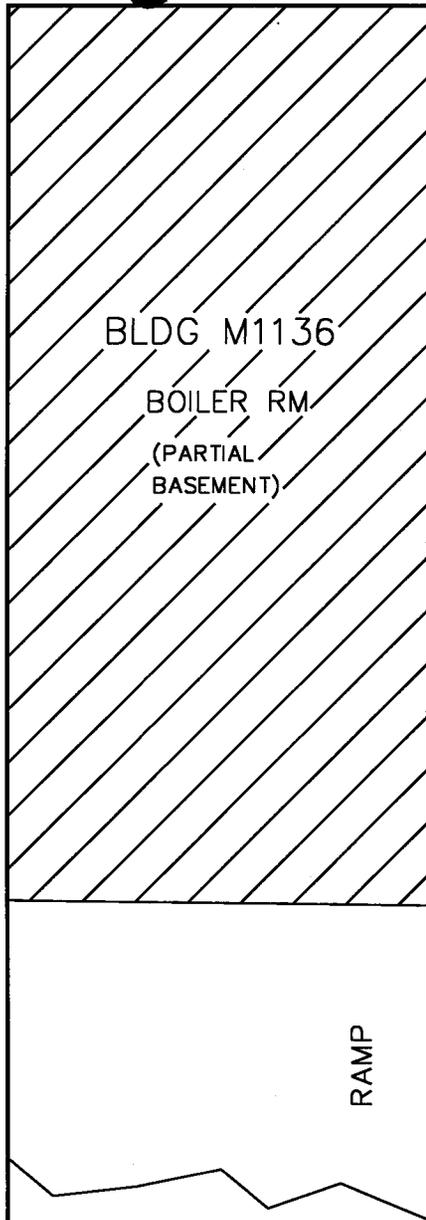


GRAPHIC SCALE

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

Site Map 2
 AST 1136
 Charleston Naval Base
 Charleston, SC

DWG DATE: 20 NOV 97 DWG NAME: A1136_2



GRAPHIC SCALE

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

Site Map 3
AST 1136
Charleston Naval Base
Charleston, SC

DWG DATE: 26 NOV 97

DWG NAME: A1136_3

AST 1136



Photo 1: AST 1136 prior to removal.

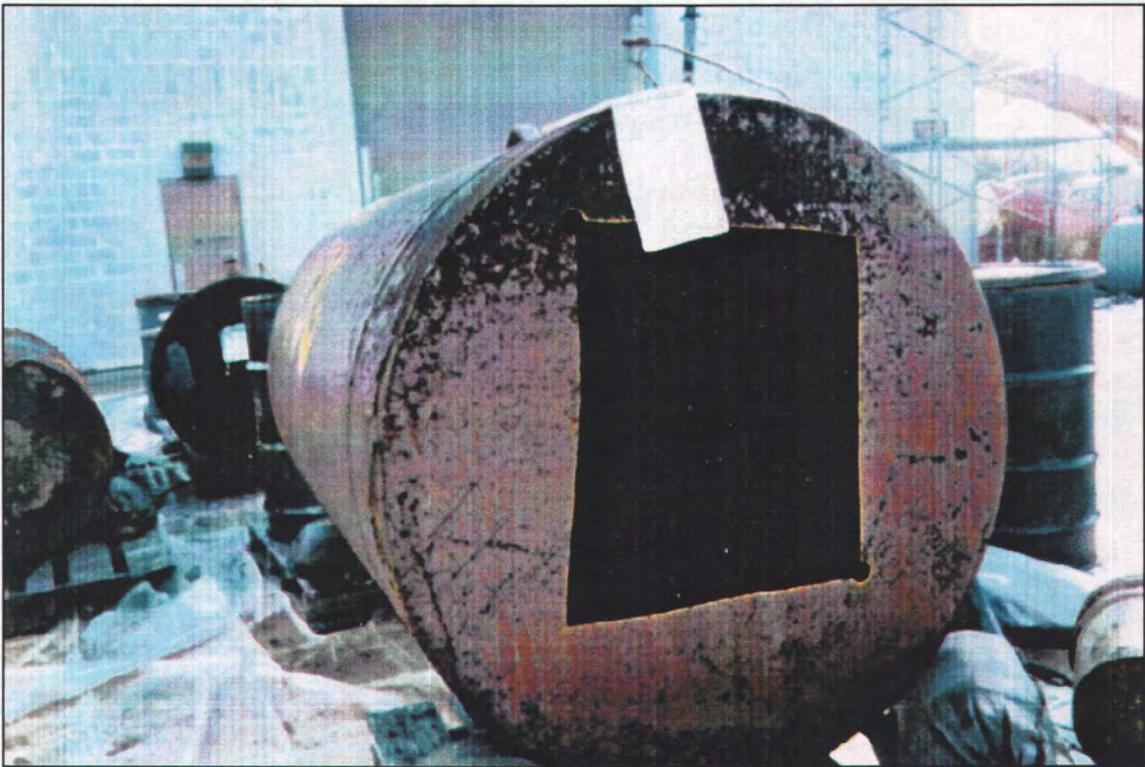
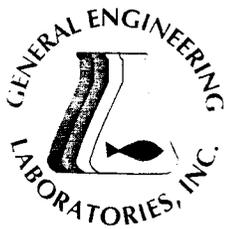


Photo 2: AST 1136 being cleaned and cut up for scrap metal.

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

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: NPWC00197

Report Date: November 26, 1997

Page 1 of 3

Sample ID : SPORT0571-2
 Lab ID : 9711511-02
 Matrix : Soil
 Date Collected : 11/18/97
 Date Received : 11/18/97
 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	JAS	11/25/97	1105	111983	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	666	1330	ug/kg	4.0	WAM	11/24/97	1839	111600	2
Acenaphthylene	U	0.00	666	1330	ug/kg	4.0					
Anthracene	U	0.00	666	1330	ug/kg	4.0					
Benzo(a)anthracene	U	0.00	666	1330	ug/kg	4.0					
Benzo(a)pyrene	U	0.00	666	1330	ug/kg	4.0					
Benzo(b)fluoranthene	U	0.00	666	1330	ug/kg	4.0					
Benzo(ghi)perylene	U	0.00	666	1330	ug/kg	4.0					
Benzo(k)fluoranthene	U	0.00	666	1330	ug/kg	4.0					
Chrysene	U	0.00	666	1330	ug/kg	4.0					
Dibenzo(a,h)anthracene	U	0.00	666	1330	ug/kg	4.0					
Fluoranthene	U	0.00	666	1330	ug/kg	4.0					
Fluorene	U	0.00	666	1330	ug/kg	4.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	666	1330	ug/kg	4.0					
Naphthalene	U	0.00	666	1330	ug/kg	4.0					
Phenanthrene	U	0.00	666	1330	ug/kg	4.0					
Pyrene	U	0.00	666	1330	ug/kg	4.0					

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

GWL 11/19/97 2345 111600 3

P O Box 30712 • Charleston, SC 29417 • 2040 Savage Road • 29414

(803) 556-8171 • Fax (803) 766-1178



9711511-02



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: NPWC00197

Report Date: November 26, 1997

Page 2 of 3

Sample ID : SPORT0571-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
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Comments:

Volatile Organics contained matrix interferences.

A dilution was required for Extractable Organics due to matrix interference.

As a result, the detection limits are elevated

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	54.1	(30.0 - 115.)
Nitrobenzene-d5	M610	46.4	(23.0 - 120.)
p-Terphenyl-d14	M610	76.2	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	116.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	101.	(63.4 - 136.)
Toluene-d8	BTEX-8260	134.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	116.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	101.	(63.4 - 136.)
Toluene-d8	NAP-8260	134.	(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:

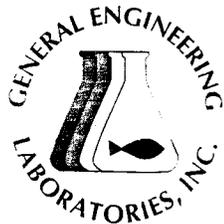
ND indicates that the analyte was not detected at a concentration greater than the detection limit.

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.





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: NPWC00197

Report Date: November 26, 1997

Page 3 of 3

Sample ID : SPORT0571-2

M = Method

Method-Description

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

Karen Blakeney





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

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

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cc: NPWC00197

Report Date: November 26, 1997

Page 1 of 2

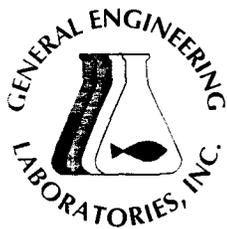
Sample ID : SPORT0571-4
 Lab ID : 9711511-04
 Matrix : Soil
 Date Collected : 11/18/97
 Date Received : 11/18/97
 Priority : Routine
 Collector : Client

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	JAS	11/25/97	1307	111983	
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	110.	(53.5 - 154.)
Dibromofluoromethane	BTEX-8260	118.	(63.4 - 136.)
Toluene-d8	BTEX-8260	113.	(72.1 - 137.)
Bromofluorobenzene	NAP-8260	110.	(53.5 - 154.)
Dibromofluoromethane	NAP-8260	118.	(63.4 - 136.)
Toluene-d8	NAP-8260	113.	(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: NPWC00197

Report Date: November 26, 1997

Page 2 of 2

Sample ID : SPORT0571-4

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



CHAIN OF CUSTODY RECORD

Page 1 of 1

9711511

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							
SPORTENVDETC#ASN		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/VAP	PAH	Remarks		
Collected by/Company																			# OF CONTAINERS		Remarks
SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB															
-01 SPORT0571-1	11/18/97	1000	X	X			2											X	X	AST 590 A	.1
-02 SPORT0571-2	11/18/97	1115	X	X			2											X	X	AST 1136	.1
-03 SPORT0571-3	11/18/97	1035	X	X			2											X	X	AST 1177	.1
-04 SPORT0571-4	11/18/97	0910	X	X			1											X		Soil TRIP BLANK	.2

Relinquished by: <i>[Signature]</i>	Date: 11/18/97	Time: 1455	Received by: <i>Virian Wawlun</i>	Relinquished by: <i>Virian Wawlun</i>	Date: 11/18/97	Time: 1437	Received by: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Date: 11/18/97	Time: 1455	Received by lab by: <i>Karen Blaken</i>	Date: 11/18/97	Time: 1455	Remarks:	

White = sample collector Yellow = file Pink = with report

Attachment III

Certificate of Disposal (tank)

AST 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

AST 1136; Charleston Naval Base, Bldg M1136, Commissary St., N. Chas, SC 29405

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK

Fuel oil

SIZE (GAL)

500 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.



Sidney C. Ladson

1-12-03-97
(Date)