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CNC CHARLESTON  
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ABOVE GROUND STORAGE TANK (AST) ASSESSMENT REPORT BUILDING 235 CNC  
CHARLESTON SC  
09/29/1997  
ENVIRONMENTAL DETACHMENT CHARLESTON



May 14, 1998

2600 Bull Street  
Columbia, SC 29201-1708

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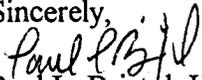
Mr. Gabriel L. Magwood  
Southern Division NFEC  
P.O. Box 190010  
2155 Eagle Drive  
North Charleston, South Carolina 29419-9010

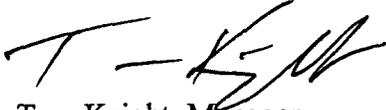
Re: Aboveground Storage Tank Assessment Report dated March 9, 1998  
Bldg. 235 (AST 235) (Site Identification # 15405-General File)  
Charleston Naval Complex/Charleston Naval Base  
Charleston, SC  
Charleston County

Dear Mr. Magwood:

The author has completed technical review of the referenced document. As submitted, the report provides a narrative describing closure activities and/or analytical results of environmental sampling to determine if releases have occurred as a result of operation of the referenced vessel and/or associated piping system. The employed closure activities and visual observations appear to indicate that no additional endeavors for remedial actions and/or contaminant characterization is 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 Quality Section  
Bureau of Water

  
Tom Knight, Manager  
Groundwater Quality 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

64.1.98  
**RECEIVED**  
MAR 12 1998  
Water Monitoring, Assessment &  
Protection Division  
5090  
Code 1849  
9 Mar 1998

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

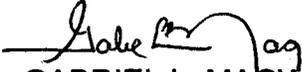
**UST ASSESSMENT REPORTS FOR CHARLESTON NAVAL COMPLEX,  
CHARLESTON, SC**

Dear Mr. Bristol:

Enclosed are the Assessment Reports for the closure of storage tanks AST's 86, 226-1 and 226-2, and 235 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

Enclosures:  
Assessment Reports

**RECEIVED**  
MAR 12 1998  
Water Monitoring, Assessment &  
Protection Division

NFA

L 4.1.98  
L 05.14.98

RECEIVED  
MAR 12 1998  
Environmental Assessment & Remediation Division

**Aboveground Storage Tank (AST) Assessment Report**

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	

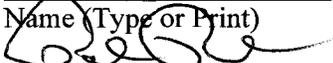
**II. SITE IDENTIFICATION AND LOCATION**

Site I.D. #:	Unregulated		
Facility Name:	Charleston Naval Base Complex, Building 235		
Street Address:	Hobson Avenue		
City:	North Charleston, 29405-2413	County:	Charleston

**III. CLOSURE INFORMATION**

Closure Started: 29 Sept 1997	Closure Completed: 15 Jan 98
Number of ASTs Closed: 1	
N/A	SPORTENVDETCNASN
Consultant	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	

**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.....

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Fuel oil						
270 gal.						
Unk.						
Steel						
Unk.						
N						
N						
R						
N						
N						

- L. Method of disposal for any ASTs removed.

AST 235 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 235 was in excellent condition. It had no corrosion, pitting or holes.

## 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.....

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
Copper						
~3'						
1 See note 1						
S						
Y						
N						
N						
Unk.						

Note 1: AST 235 provided heating fuel oil for building 235.

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

No corrosion, pitting, or holes were found in AST 235's piping.

## VII. BRIEF SITE DESCRIPTION AND HISTORY

Building 235 was constructed in 1977. The building was used to refill gas cylinders with carbon dioxide and MAPP gas for use throughout the shipyard.

AST 235 and its piping were in excellent condition. No samples were taken of the area because the tank was located on an asphalt surface.



## **X. SAMPLING METHODOLOGY**

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

No samples were taken because AST 235 was located on an asphalt parking lot. There was no exposed soil in the vicinity.

## XI. RECEPTORS

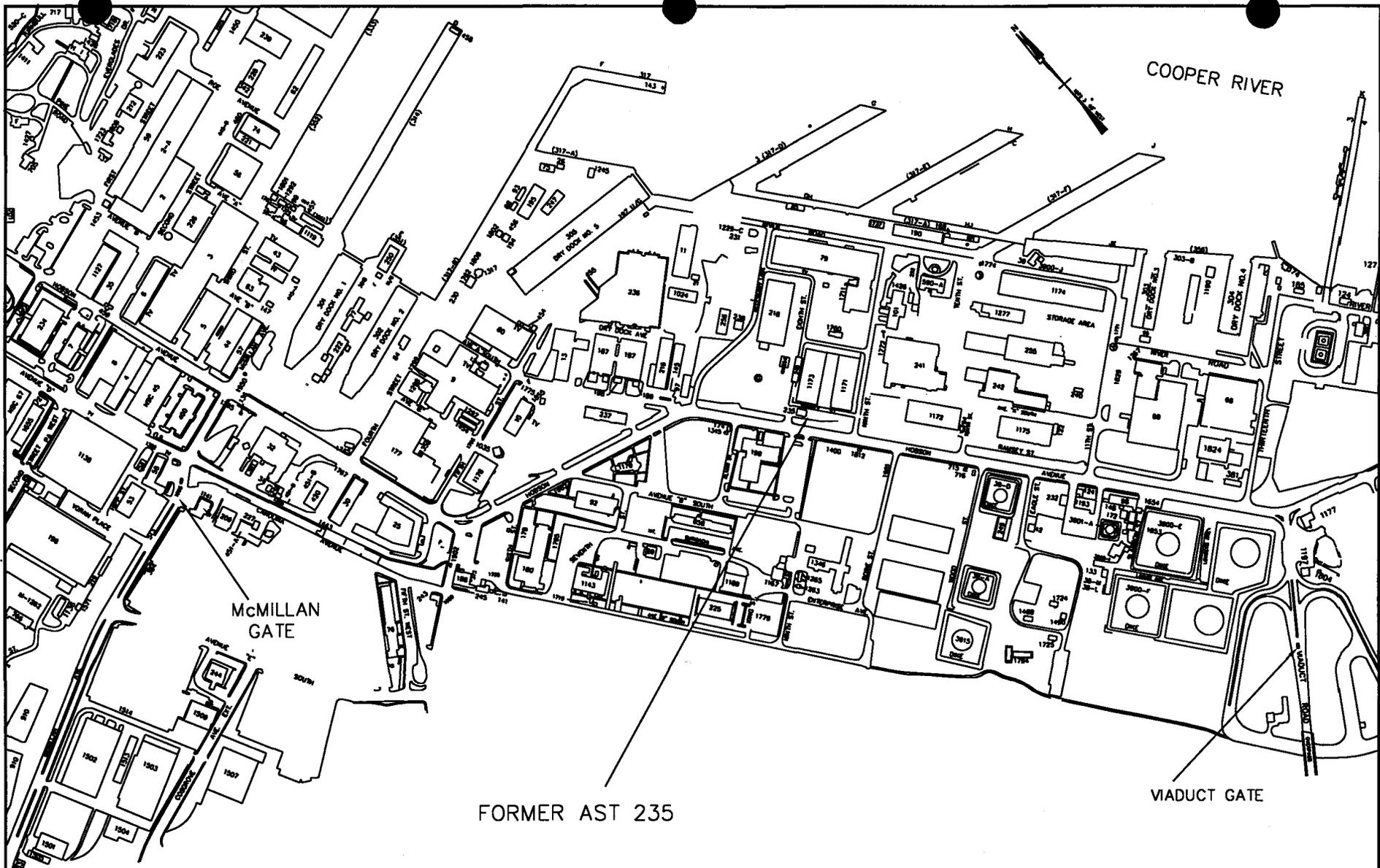
Yes No

<p>A. Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the AST system?  <b>[Cooper River ~ 995']</b>            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?            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?            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?  <b>[water, storm drain]</b>            If yes, indicate the type of utility, distance, and direction on the site map.</p>	X	

**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  
Photograph 1



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

Site Map 1  
AST 235  
Charleston Naval Base  
Charleston, SC

DWG DATE: 20 NOV 97	DWG NAME: A235_1
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RAMSEY ST.

FENCE

P ⊕

SD

P ⊕

P ⊕

CONCRETE FOUNDATION FOR  
REFILLING STATION FLASKS

L

FORMER AST 235

COOPER R. ~ 995'  
FROM AST 235

KEY

L - STREET LIGHT

P - CAPPED PIPE EXITS GROUND

SD - STORM DRAIN

W - WATER CUT OFF VALVE

ASPHALT

SD

RAILROAD TRACKS

GRASS

⊕ W

⊕ W

HOBSON AVE.



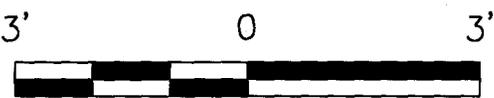
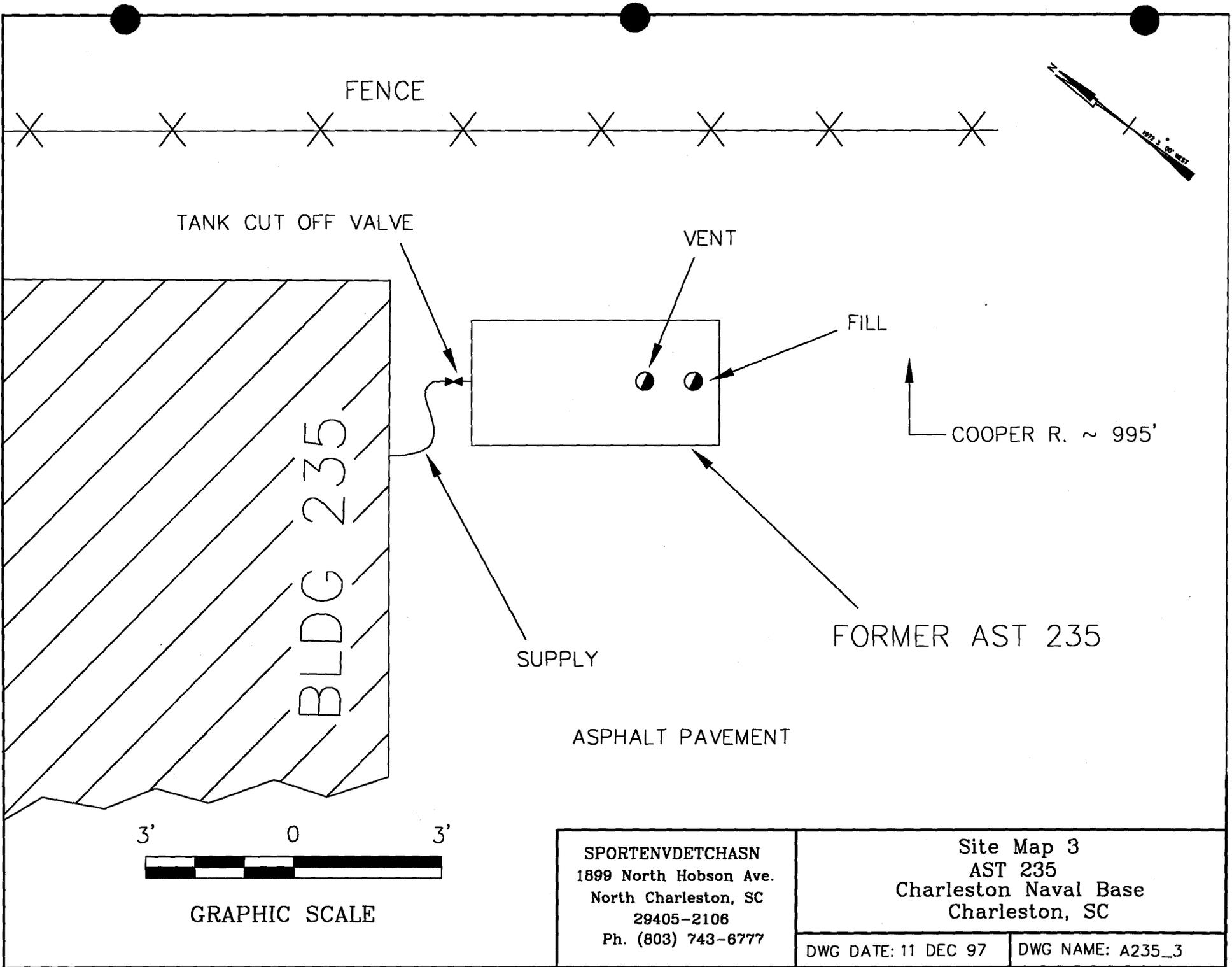
GRAPHIC SCALE

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

Site Map 2  
 AST 235  
 Charleston Naval Base  
 Charleston, SC

DWG DATE: 21 NOV 97

DWG NAME: A235\_2



GRAPHIC SCALE

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

Site Map 3  
 AST 235  
 Charleston Naval Base  
 Charleston, SC

DWG DATE: 11 DEC 97      DWG NAME: A235\_3

AST 235



Photo 1: Former AST 235 prior to removal.

**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.

No samples were taken.

**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 235; Charleston Naval Base, Bldg 235, Hobson Ave., N. Chas, SC 29405

## DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning  
& Disposal Area  
Charleston Naval Complex

### TYPE OF TANK

Fuel oil

### SIZE (GAL)

270 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

10206-98

(Date)